International Journal of Recent Technology and Engineering

ISSN: 2277 - 3878

Website: www.ijrte.org

Published by:

Blue Eyes Intelligence Engineering and Sciences Publication







Editorial Board IJRTE

Editor-In-Chief Chair

Dr. Shiv Kumar

Ph.D. (CSE), M.Tech. (IT, Honors), B.Tech. (IT), Senior Member of IEEE Professor, Department of Computer Science & Engineering, Lakshmi Narain College of Technology Excellence (LNCTE), Bhopal (M.P.), India

Associated Editor-In-Chief Chair

Dr. Dinesh Varshney

Professor, School of Physics, Devi Ahilya University, Indore (M.P.), India

Associated Editor-In-Chief Members

Dr. Hai Shanker Hota

Ph.D. (CSE), MCA, MSc (Mathematics)

Professor & Head, Department of CS, Bilaspur University, Bilaspur (C.G.), India

Dr. Gamal Abd El-Nasser Ahmed Mohamed Said

Ph.D(CSE), MS(CSE), BSc(EE)

Department of Computer and Information Technology, Port Training Institute, Arab Academy for Science, Technology and Maritime Transport, Egypt

Dr. Mayank Singh

PDF (Purs), Ph.D(CSE), ME(Software Engineering), BE(CSE), SMACM, MIEEE, LMCSI, SMIACSIT

Department of Electrical, Electronic and Computer Engineering, School of Engineering, Howard College, University of KwaZulu-Natal, Durban, South Africa.

Scientific Editors

Prof. (Dr.) Hamid Saremi

Vice Chancellor of Islamic Azad University of Iran, Quchan Branch, Quchan-Iran

Dr. Moinuddin Sarker

Vice President of Research & Development, Head of Science Team, Natural State Research, Inc., 37 Brown House Road (2nd Floor) Stamford, USA.

Dr. Shanmugha Priya. Pon

Principal, Department of Commerce and Management, St. Joseph College of Management and Finance, Makambako, Tanzania, East Africa, Tanzania

Dr. Veronica Mc Gowan

Associate Professor, Department of Computer and Business Information Systems, Delaware Valley College, Doylestown, PA, Allman, China.

Dr. Fadiya Samson Oluwaseun

Assistant Professor, Girne American University, as a Lecturer & International Admission Officer (African Region) Girne, Northern Cyprus, Turkey.

Dr. Robert Brian Smith

International Development Assistance Consultant, Department of AEC Consultants Pty Ltd, AEC Consultants Pty Ltd, Macquarie Centre, North Ryde, New South Wales, Australia

Dr. Durgesh Mishra

Professor & Dean (R&D), Acropolis Institute of Technology, Indore (M.P.), India

Executive Editor Chair

Dr. Deepak Garg

Professor & Head, Department Of Computer Science And Engineering, Bennett University, Times Group, Greater Noida (UP), India

Executive Editor Members

Dr. Vahid Nourani

Professor, Faculty of Civil Engineering, University of Tabriz, Iran.

Dr. Saber Mohamed Abd-Allah

Associate Professor, Department of Biochemistry, Shanghai Institute of Biochemistry and Cell Biology, Shanghai, China.

Dr. Xiaoguang Yue

Associate Professor, Department of Computer and Information, Southwest Forestry University, Kunming (Yunnan), China.

Dr. Labib Francis Gergis Rofaiel

Associate Professor, Department of Digital Communications and Electronics, Misr Academy for Engineering and Technology, Mansoura, Egypt.

Dr. Hugo A.F.A. Santos

ICES, Institute for Computational Engineering and Sciences, The University of Texas, Austin, USA.

Dr. Sun<mark>andan Bhuni</mark>a

Associate Professor & Head, Department of Electronics & Communication Engineering, Haldia Institute of Technology, Haldia (Bengal), India.

Dr. Awatif Mohammed Ali Elsiddieg

Assistant Professor, Department of Mathematics, Faculty of Science and Humatarian Studies, Elnielain University, Khartoum Sudan, Saudi Arabia.

Technical Program Committee Chair

Dr. Mohd. Nazri Ismail

Associate Profes<mark>sor, Department of System and Networking, University of Kual</mark>a (UniKL), Kuala Lumpur, Malaysia.

Technical Program Committee Members

Dr. Haw Su Cheng

Faculty of Information Technology, Multimedia University (MMU), Jalan Multimedia (Cyberjaya), Malaysia.

Dr. Hasan. A. M Al Dabbas

Chairperson, Vice Dean Faculty of Engineering, Department of Mechanical Engineering, Philadelphia University, Amman, Jordan.

Dr. Gabil Adilov

Professor, Department of Mathematics, Akdeniz University, Konyaaltı/Antalya, Turkey.

Dr. Ch.V. Raghavendran

Professor, Department of Computer Science & Engineering, Ideal College of Arts and Sciences Kakinada (Andhra Pradesh), India.

Dr. Thanhtrung Dang

Associate Professor & Vice-Dean, Department of Vehicle and Energy Engineeering, HCMC University of Technology and Education, Hochiminh, Vietnam.

Dr. Wilson Udo Udofia

Associate Professor, Department of Technical Education, State College of Education, Afaha Nsit, Akwa Ibom, Nigeria.

Convener Chair

Mr. Jitendra Kumar Sen

Blue Eyes Intelligence Engineering & Sciences Publication, Bhopal (M.P.), India

Editorial Chair

Dr. Sameh Ghanem Salem Zaghloul

Department of Radar, Military Technical College, Cairo Governorate, Egypt.

Editorial Members

Dr. Uma Shanker

Professor, Department of Mathematics, Muzafferpur Institute of Technology, Muzafferpur(Bihar), India

Dr. Rama Shanker

Professor & Head, Department of Statistics, Eritrea Institute of Technology, Asmara, Eritrea

Dr. Vinita Kumar

Department of Physics, Dr. D. Ram D A V Public School, Danapur, Patna(Bihar), India

Dr. Brijesh Singh

Senior Yoga Expert and Head, Department of Yoga, Samutakarsha Academy of Yoga, Music & Holistic Living, Prahladnagar, Ahmedabad (Gujarat), India.

Dr. J. Gladson Maria Britto

Professor, Department of Computer Science & Engineering, Malla Reddy College of Engineering, Secunderabad (Telangana), India.

Dr. Sunil Tekale

Professor, Dean Academics, Department of Computer Science & Engineering, Malla Reddy College of Engineering, Secunderabad (Telangana), India.

Dr. K. Priya

Professor & Head, Department of Commerce, Vivekanandha College of Arts & Sciences for Women (Autonomous, Elayampalayam, Namakkal (Tamil Nadu), India.

Dr. Pushpender Sarao

Professor, Department of Computer Science & Engineering, Hyderabad Institute of Technology and Management, Hyderabad (Telangana), India.

Dr. Nitasha Soni

Assistant Professor, Department of Computer Science, Manav Rachna International Institute of Research and Studies, Faridabad (Haryana), India.

Dr. Siva Reddy Sheri

Associate Professor, Department of Mathematics, School of Technology Hyderabad Campus, GITAM University, Visakhapatnam (Andhra Pradesh), India.

Dr. Nihar Ranjan Panda

Associate Professor, Department of Electronics and Communication Engineering, Sanketika Vidya Parishad Engineering College, Visakhapatnam (Andhra Pradesh), India.



Table of Content

1	Authors:	Wan Muhamad Amir W Ahmad, Nurhayu Abdul Rahman, Muhammad Azeem Yaqoob, Nor Azlida Aleng, Nurfadhlina Abdul Halim, Mohamad Arif Awang Nawi	1 - 5
	Paper Title:	A Statistical Application on Determining the Prognostic Factors of Oral Squamous Cell Carcinomas (Oscc) In Malaysia	
2	Authors:	Pooja Anand, Vinitha Lea Philip, Parthasarathy Eswaran	6 - 13
	Paper Title:	Cost Effective Digitalization Solution for Sinumerik CNC System to Increase the Transparency and Utilization of the Machine	
3	Authors:	Vijayakumar P., Ganesan V., Pratik Patwari, Rajnandini Singh, Sharmila A., Payal P. Tayade, R. Rajash <mark>ree, M. Tamilselvi</mark>	14 - 20
	Paper Title:	IoT Based Smart Fuel Monitoring System	
4	Authors:	V. Aish <mark>warya, K. Gnana Sheela</mark>	21-25
	Paper Title:	An Integrated Single-Stage Converter Fed Sensor-Less Motor Drive	
5	Authors:	Surya Deo Choudhary, Gaurav Arora, Sandeep Singh, Vineet Shekher	26-28
	Paper Title:	Microstrip Patch Antenna for GPS/WiMAX/WLAN Applications	
6	Autho <mark>rs:</mark>	T. V. Hyma Lakshmi, T. Madhu, K. Ch Sri Kavya	29-34
	Paper	Gaussian Mixture Model and Lifting Wavelet Transformed Base Satellite Image	
7	Title: Authors:	Enhancement Arati Kothari, B. Indira	35-40
,	Paper	A Unique Six Sigma Based Segmentation Technique for Brain Tumor Detection and	33 40
	Title:	Classification using Hybrid CNN-SVM Model	
8	Authors:	P. Varaprasada Rao, S. Govinda Rao, P. Chandrasekhar Reddy, B. S. Anil Kumar, G. Anil Kumar	41-47
	Paper Title:	Detection of Malicious Uniform Resource Locator	
9	Authors:	Ankush D. Bhishnurkar, Ashok G. Matani	48-52
	Paper Title:	Optimizing Rotavator Design Towards Enhancing Agricultural Crop Productivity	
10	Authors:	Pram <mark>od Kumar Gouda</mark> , Ra <mark>mesh P, Kodandapani D, M.Har</mark> i, T <mark>ejashri S W</mark> able	53-57
	Paper Title:	Graphene as Solar PV Material	
11	Authors:	Alok Soni, <mark>Sanjeev Kumar Gupt</mark> a	58-61
	Paper Title:	Finite Element Analysis of Aluminum Alloy at Many Die Channel Angles Using DEFORM-3D	
12	Authors:	S. Kamalakkannan, R. Thiagarajan, S. Mathivilasini, R. Thayammal	62-65
	Paper Title:	Big Data Analysis for Diabetes Recognition using Classification Algorithms	
13	Authors:	Suraj Malik, Rakesh Kumar Singh	66-70
	Paper Title:	A Hexagonal Topology and Coordinate based Routing for Wmns	
14	Authors:	A. Amir Anton Jone, Shajin Prince, J. Samson Immanuel, K. Martin Sagayam, Esther	71-75

Jebarani

	Paper Title:	Portable UWB based Monopole Antenna for Wearable Applications	
15	Authors:	Rajiv R. Bhandari, K. Raja Sekhar	76-85
	Paper Title:	Mobility Aware Clustering Routing Algorithm (MACRON) to improve lifetime of Wireless Sensor Network	
16	Authors:	Rajesh P. Patel	86-94
10	Paper Title:	Energy Efficient VM Migration in Cloud Datacenter using Dolphin Echolocation Optimization with Tchebycheff Algorithm	00 5 .
17	Authors:	Nagesh Kalidas Bhosale, Chandra O. Reddy, Pankaj Bhakre	95-100
_,	Paper	Power Transformer Fault Diagnosis using DGA based on Three Gas Ratio and Fuzzy	33 100
	Title:	Logic	
18	Authors:	M. Bharathi, N. P <mark>admaja, D.</mark> Leela Rani	101-106
	Paper	Energy Efficient Digital Circuits using Two Phase Clocking Sub-Threshold Adiabatic	
	Title:	Logic	
19	Authors:	Steena Gracious, Geethu Nandanan, Dagma K. R, Hari Narayana AG	107-110
	Paper Title:	Big Data Security Analytics in Clinical Data using Cryptographic Algorithms	
20	Authors:	Ganesh Kalagi, Rajashekar Patil	111-115
	Paper	Erosion Wear Behavior of SiC Nano Powder Filled Flax and Sisal Fabric Hybrid	
	Title:	Composites with Taguchi Experimental Design	
21	Autho <mark>rs:</mark>	Anil Kumar K.R, Meenakshi K.	116-125
	Paper	Retinal Vasculature Extraction using Non-Subsampled Contourlet Transform and	
	Title:	Multi-structure Element Morphology by Reconstruction	
22	Author <mark>s:</mark>	Rakesh Kumar Godi	126-130
	Paper Title:	Early Prediction of Rainfall in Coastal Region using Optimized Advanced ANN	
23	Authors:	Magdalene C. Unajan, Bobby D. Gerardo	131-135
	Paper Title:	Recognizing Cassava Variety using Artificial Neural Network with Otsu Algorithm for Image Segmentation	
24	Authors:	M. Preethi Pauline Mary, V. Geetha, R. Meenadevi	136-140
	Paper	Integrated Micro Circuitry Deceleration System Enhanced with Visible Light	
	Title:	Communication	
25	Authors:	Pooj <mark>a Singh Gautam, Dhananjay Singh, Surya Deo Chou</mark> dhary	141-144
	Paper	Design and Fabrication of DGS Microstrip Patch Antenna for S, C & X Band	
	Title:	Applications Applications	
26	Authors:	Shameem Fatima, M. Seshashayee	145-150
	Paper Title:	Categorized Image Classification using CNN Features with ECOC Framework	
27	Authors:	Avinash Rai, Mridula Sharma	151-154
	Paper	Wireless Sensor Network using Tabu Searching Algorithm and Fuzzy Inference	
	Title:	System	
28	Authors:	Serge Raoul Dzondé Naoussi, Jean Paul Ngon	155-161
	Paper Title:	Levenberg-Marquardt based MLP for Detection and Classification of Power Quality Disturbances	
29	Authors:	Dharmavaram Asha Devi, Muchukota Suresh Babu	162-166

	Paper Title:	Design and Analysis of Power Efficient 64-Bit ALCCU	
30	Authors:	K. Sharmila, S. Kamalakkannan, R. Devi, C. Shanthi	167-170
	Paper Title:	Big Data Analysis using Apache Hadoop and Spark	
31	Authors:	Deepti Sehrawat, Nasib Singh Gill	171-176
	Paper Title:	Design Considerations of Lightweight Block Ciphers for Low-Cost Embedded Devices	
32	Authors:	J. Jansi, P. Jegathambal, S. Devaraj Arumainayagam	177-185
	Paper Title:	Identifying the Underlying Relationship Between Water Quality Parameters of the Groundwater Samples using Association and Clustering Algorithms in Coimbatore District	
33	Authors:	D.R.Denslin Braja, V.S.Dharun, D.R.Denslin Brabin	186-191
	Paper	Secure Secret Image Sharing Using Histogram Localization Based Block wise	
	Title:	Methodo <mark>logy</mark> Methodology	
34	Authors:	Dip Jyoti Bhuyan	192-199
	Paper	Effectiveness of Electronic Voting Machine in The Electoral System of India: New	
35	Title: Authors:	Opportunities and Challenges Aakanksha Devrari, Adesh Kumar, Himanshu Chauhan, Amit Kumar	200-206
33	Paper	Design and FPGA Implementation of LDPC Decoder Chip for Communication System	200-200
	Title:	using VHDL	
36	Autho <mark>rs:</mark>	Ankur Mudgal, Raju Sarkar, Amit Kumar Shrivastava	207-212
	Paper	Effect of 3D Geogrid and Glasgrid in the Bearing Capacity of Square Footing Over	
	Title:	Soil Slope	
37	Authors:	Marlon D. Hernandez, Arnel C. Fajardo, Ruji P. Medina	213-216
	Paper Title:	A Hybrid Convolutional Neural Network-Gradient Boosted Classifier for Vehicle Classification	
38	Authors:	Alwyn Varghese, Agrima M, Balakrishnan M, Greeshma C, Krishnapriya P S	217-221
30	Paper		217 221
	Title:	Pure Shear Strength of PVA Fiber Reinforced Concrete	
39	Authors:	Naveen Singh Dagar, Pawan Kumar Dahiya	222-226
	Paper	Edge Detection of Different Images using Soft Computing Techniques	
	Title:	1	
40	Authors:	Obulesu Varikunta, M. Sudheer Kumar	227-229
	Paper Title:	The Level of Employees Job Satisfaction in Public Sector Bank, With Special Reference to SBI Banks in Rayalaseema Division	
41	Authors:	Banafsha Quadri Rajput, Sadia Riaz	230-235
	Paper		
	Title:	Media Reinforcement of Architectural Perceptions for Place Branding	
42	Authors:	Kishor Babu Gunti, Sree Krishnarayalu Movva	236-244
	Paper	Discrete Multi Parameter Singular Perturbation Method with Power System	
42	Title:	Application	245 254
43	Authors:	Sunny Agarwal, Sanjeet Kumar Applicability of SWMM for Semi Urban Catchment Flood modeling using Extreme	245-251
	Paper Title:	Rainfall Events	
44	Authors:	Divya V, Sharon Sophia	252-257

	Paper Title:	Predicting Equity VIX Of Technological Companies	
45	Authors: Paper Title:	Ch. Vara Prasad, Ch. V. Subbarao King, P Effect of Aqueous Solutions of Carboxymethyl Cellulose on Draining Time in Gravity Driven Flow	258-260
46	Authors: Paper Title:	Ravi Kumar Palla, K. K. Naik Design of Dual Band Antenna with Defects on Patch and Ground for Wireless Applications	261-264
47	Authors:	K.Jamuna, R.Vignesh and K.Usha	265-271
	Paper Title:	Buck Boost based Battery Charge Equalization Controller for an Electrical Vehicle	
48	Authors:	Akshaya B, Selvakumar K	272-277
	Paper Title:	Innovative Waste Management Technique Via Garbage Collecting Robotruck	
49	Authors:	V. Sumitra, A. Iyswariya, <mark>P. Latha, K. Jeevitha,</mark>	278-282
	Paper Title:	Secure Energy Efficient Automated Ticketing System	
50	Authors:	Siti Marsila Mhd. Ruslan, Gairuzazmi Mat Ghani, HanizaKhalid, Kasypi Mokhtar	283-290
	Paper Title:	Transportation Dynamic Behaviour of Structural Break and Consumer Price Index	
51	Autho <mark>rs:</mark> Paper Title:	Ratul Das Scaling of Turbulent Spectra Measured in Mobile Bed Flows and Estimation of Turbulent Kinetic Energy Budgets	291-298
52	Authors: Paper Title:	J. Pamina, T. Dhiliphan Rajkumar, S. Kiruthika, T. Suganya, Femila.F Exploring Hybrid and Ensemble Models for Customer Churn Prediction in Telecom Sector	299-308
53	Authors:	D. Srinivasa Rao, Ch. Ramesh Babu, <mark>Nage</mark> ndra Kumar, N. Rajasek <mark>har, T. Ravi</mark>	309-317
	Paper Title:	Medical Image Fusion Using Transform Based Fusion Techniques	
54	Authors: Paper Title:	Himanshu K. Patel, Prutha H. Patel, Harsh Patel Innovative Application Electronic Nose and Electronic Tongue Techniques for Food Quality Estimation	318-323
55	Authors:	S. Sam Karthik, A. Kavithamani	324-326
	Paper Title:	Uninterrupted Hybrid Renewable Energy Distribution System	
56	Authors:	S. Jebasi <mark>ngh, G. Johnsy, P.S. D</mark> ivya	327-330
	Paper Title:	Chain Code P System using Cycle Grammar	
57	Authors:	V. M. Sonde, P. P. Shirpurkar, P. P. Ashtankar, V. S. Ghutke	331-334
	Paper Title:	Design & Development of Four Way Hack Saw	
58	Authors: Paper Title:	Vilas S. Gaikwad, Bharati W.Gawali Upgraded Segmentation of Histopathological Images for Classification of Intraductal Breast Lesions	335-338
59	Authors: Paper	Divya Sharma, R.P. Dwivedi Quantifying Fraction of Total Power Vs Wavelength of Ultra-Nanoscale Plasmonic	339-343

	Title:	Biosensor Device using Metal-Insulator-Metal-Metal Stack, Nano wells and Biotin Layer.	
60	Authors:	K. Srinivas, V Shivanarayana Reddy, Bakkolla Navya	344-348
	Paper Title:	Advanced Efficient Energy Method Query Processing	
61	Authors:	Ajay Verma, Kuldeep Panwar, Kuldeep Rawat	349-354
	Paper Title:	Control of Beam Vibrations using Viscoelastically Damped Absorber System	
62	Authors:	P. Balamurugan, K. Shunmugapriya	355-362
	Paper Title:	Treatment of Urinal Waste Water using Natural Coagulants	
63	Authors: Paper Title:	Disha Thakur, Ashok Kumar Gupta, Rajiv Ganguly Geotechnical Properties of Fresh and Degraded MSW in the Foothill of Shivalik Range Una, Himachal Pradesh	363-374
64	Authors: Paper	Uma Maheswara Rao I, JKR Sastry	375-382
	Title:	Scheduling under Open stack – The Current State and Future Enhancements	
65	Authors: Paper Title:	Sufia Nadeem Chishti, S. K. Singh, Exploring the Quality Improvement in Small- Scale Project Using Aspect-Oriented Design	383-386
66	Autho <mark>rs:</mark>	Vipin Chandra, Milind R. Gidde	387-391
	Paper Title:	Morphometric Analysis of Baltira Watershed Using QGIS Platform	
67	Authors:	N. M. Sianturi, M. K. A. Kamarudin, N. A. Wahab, A. S. Mohd Saudi	392-404
	Paper Title:	The Hydraulic Modelling on Sediments Ponds in Binanga Aron River, North Sumatera Indonesia	
68	Authors:	Emmanuel Rwagasana, Githae Wanyona, Titus Kivaa	405-411
	Paper Title:	Evaluation of Risk Management Practices in Construction Projects in Rwanda	
69	Authors:	Varun Shukla, Atul Chaturvedi, Neelam Srivastava	412-419
	Paper Title:	Authentication Aspects of Dynamic Routing Protocols: Associated Problem & Proposed Solution	
70	Authors:	Ralph Sherwin A. Corpuz	420-425
	Paper	Implementation of Artificial Neural Network Using Scaled Conjugate Gradient in ISO	
71	Title: Authors:	9001:20 <mark>15 Audit Find</mark> ings Classification Muhamm <mark>ad Azeem, Leonardo Jose Mat</mark> aruna-Dos-Santos, Rabeb Ben Abdallah Moalla, Muhammad Musa Kaleem	426-435
	Paper Title:	Confirmatory Model of the Workplace Creativity in Higher Education	
72	Authors: Paper	Anjana Shukla, Vineeta Saxena (Nigam) Cooperative Qos Control Scheme Based on Power Allocation and Scheduling of	436-440
	Title:	WDM-OWC Network	
73	Authors:	Mahendra G, Sakthivadivel D, Vijayakumari A	441-446
	Paper Title:	Design of Bldc Motor for Agriculture Pump Application	
74	Authors:	Veena N, Anitha N	447-451

	Paper Title:	Converting Intent of Physically Impaired into Text using Eye Blink Detection	
75	Authors: Paper Title:	Elavarasan G., Kannan M., Karthikeyan D. Experimental Analysis to find the optimum Specific Fuel Consumption for Driver's Intimation	452-456
76	Authors: Paper Title:	D. Sudha, Member, J. Priyadarshini A New Hybrid Proposed Algorithm for Multiple Vehicle Detection and Tracking in a Day-Time Environment	457-469
77	Authors:	Arpitha Swamy, Srinath S	470-474
	Paper Title:	Automated Kannada Text Summarization using Sentence features	
78	Authors:	B. Ravi Raju, B. Na <mark>mratha G. L. Anand Babu</mark>	475-477
	Paper Title:	A Conceptual Perspective for Identifying and Preventing Phishing Attacks	
79	Authors:	R. Vanith <mark>amani, T. Kuma</mark> nan	478-481
	Paper Title:	Secured Big Data Based on Ocular Recognition	
80	Authors:	Takkellapati Sujatha, Chava Srinivas	482-487
	Paper Title:	Development of Composite Concrete with Fibers	
81	Autho <mark>rs:</mark>	Tshibamb Yav Beston, Thangadurai N.	488-491
	Paper Title:	Recent Trends in Wheelchair to Assist the Physically Challenged	
82	Authors: Paper Title:	Vinayak Hegde, Smruthi.G, Sahana Patil Learning pathway: Content Management and Identification of Student Behavior Through Online Learning Management in Java	492-497
83	Authors:	Preeti Singh, Shobha Sharma	498-502
	Paper Title:	Implementing Static and Dynamic Full Adders in Dynamic Body Biasing Technology	
84	Authors:	Dunhil Vishwas Fernandes, Pritesh Kumar Jain, Srinivas V N, Viraj Chavan, Gayathri K M, Thangadurai. N	503-508
	Paper Title:	Acquisition and Tracking of S-Band Signals of Navigation with Indian Constellation (NavIC)	
85	Authors:	Rupal <mark>K. Waghwala, P. G. Agnihotri</mark>	509-516
	Paper Title:	Assessing the Impact Index of Urbanization Index on Urban Flood Risk	
86	Authors:	Manoj Veetil, Kadripathi K N, K.S. Kiran, L Yethinder Ragav	517-520
	Paper Title:	An Innovative Technique for Optimization of Efficiency of Transformer and Inductor	
87	Authors:	Arun Raj V, Nambi Srinivasan S, Vimalathethan K.K.A	521-525
	Paper Title:	Smart Irrigation and Management of Cash Crops using IoT	
88	Authors:	A.S. Veerendra, M.R. Mohamed, M.H. Sulaiman, K. Peddakapu, K.Sudhakar, Sreenath sukumaran	526-533
	Paper Title:	Speed Regulation Enhancement for SRM Drive in PHEV Applications by using Hybrid Fuzzy Logic controller	

89	Authors: Paper	Divya Jennifer DSouza, Sanket Srivatsava, Ruth Prithika, Sahana	534-539
	Title:	IoT Based Smart Wheelchair for HealthCare	
90	Authors:	Neha Bharti, Saravana Kumar K	540-543
	Paper Title:	Sentiment Analysis of Impact of Social Platforms on the Market Share of a Company	
91	Authors:	Hitesh Kumar Patil, Arun Kumar Dwivedi	544-557
	Paper Title:	Rheology of Self-Compacting Concrete Nanocomposites	
92	Authors:	Yogesh Kumar Jakhar, Nidhi Mishra, Rakesh Poonia	558-563
	Paper Title:	Performance Analysis of Data Mining Algorithms in the Prediction of Rain Fall	
93	Authors:	Priyadharshini.R <mark>, Ananthi K,</mark> Si <mark>vasha</mark> nk <mark>a</mark> ra <mark>n</mark>	564-566
	Paper Title:	Hover Surf Drone	
94	Authors:	L. A <mark>birami, J. Karthike</mark> yan	567-573
	Paper Title:	Assessing Threats and Vulnerable Attacks of Health Care Data in Cloud-Based Environment	
95	Authors:	Suma. Yarlagadda, SS. Asadi, Ch. Nithin Kumar Reddy	574-580
	Paper Title:	A Critical Analysis of Feasibility of Mixing Waste Water in Cement Mortar and Concrete	
96	Authors:	Amarendra Ku. Pattnaik, Satya Narayan Misra, Sanjaya Kumar Ghadai	581-585
	Paper Title:	Claim Settlement: The Moment of Truth in Health Insurance	
97	Authors:	Thendral Tharmalingam, Vijaya Vijayakumar	586-591
	Paper	Linear Kernel with Weighted Least Square Regression Co-efficient for SVM Based	
98	Title: Authors:	Tamil Writer Identification R. Vijaya Baskaran	592-597
30		Ecommerce Policy Conundrum Disrupting Consumer Efficacy Euphoria and Ease are	332-337
	Paper Title:	Becoming the Elucidated Predictors in The Emerging Lifestyle of Indian Online	
		Purchasing Diaspora.	
99	Authors: Paper	Md. Zia Ur Rahman, Shafi Shahsavar Mirza, K. Murai Krishna Artifact Elimination in Impedance Cardiography using Gradient based Adaptive	598-606
	Title:	Signal Enhancement Techniques	
100	Authors:	D. Cha <mark>ndra Sekhar, P</mark> .V. V Rama Rao, V. Ganesh	607-611
	Paper	Weight Feedback Adaptive Multi Objective Cooperative Scheduling in Smart Grid	
101	Title: Authors:	Application M. Bhuvaneswari, R. Emmanuel Gospel Raj, T. Vignesh	612-615
101	Paper		012 015
	Title:	Automatic Fish Cutting and Cleaning Machine using Digital Image Processing	
102	Authors:	S. S. Kushwaha, D. Kishan, N. Dindorkar	616-623
	Paper Title:	Strength, Physicochemical and Morphological Characteristics of Fly Ash Stabilized Black Cotton Soil	
103	Authors:	Sanda Sri Harsha, Harika Simhadri, Karaganda Raghu, K.V. Prasad	624-634
	Paper	Distinctly Trained Multi-Source CNN for Multi Camera based Vehicle Tracking	
	Title:	System	

104	Authors:	Guru Kesava Dasu Gopisetty, K. Vaddi Kasulu, K. Raj Kamal, G. Pranith, Md. Zia Ur Rahman	635-639
	Paper Title:	An Improved Multipath Routing Scheme using Virtual Network Path Migration	
105	Authors:	Ananya K, Jahanara Khanam, Santhosh Kumar B J	640-643
	Paper Title:	Research Analysis on Encryption Algorithms for Cloud Authentication in Hms	
106	Authors:	Hema Priya M, Venkatesh R	644-649
	Paper Title:	The Paradoxical Effect of Drive Factors on Social Entrepreneurship Sustainability	
107	Authors:	Amit Kumar, Amit Prakash, P <mark>riyanka Datta, Rajesh</mark> Kumar, Anant Gopal Sharma	650-653
	Paper Title:	Automatic Cooking Machine using Arduino	
108	Authors: Paper Title:	Frank Stephen S., Chockalingam M. P., Nalanth N. Joint Behavior of Self Compacting Concrete using Recycled Concrete Aggregate and Hybrid Steel Fibers	654-660
109	Authors:	A <mark>vinash Rai, Surbhi Vy</mark> as	661-667
	Paper Title:	Augmentation of Spectral Efficiency using APSK in FBMC to Assess High Data Rate	
110	Autho <mark>rs:</mark>	Dani Prafullkrishna Kiran, S.Sivarajan	668-673
	Paper Title:	Design and Analysis of Structural Elements of H-Frame Press	
111	Autho <mark>rs:</mark>	Sannasi Chakravarthy S R, Harikumar Rajaguru	674-678
	Paper Title:	Impulse Noise Removal in Mammograms using Bi-Dimensional Empirical Mode Decomposition and Fast Adaptive Bilateral Filter	
112	Authors:	A. Sravani, S. Ravi Kishan	679-686
	Paper Title:	An Efficeint Feature Selection from Hetrogenous Data with Reduced Data Complexity	
113	Authors:	Ravi C Bhaddurgatte, Vijaya Kumar B P, Kusuma S M	687-694
	Paper Title:	Machine Learning and Prediction-Based Resource Management in IoT Considering Qos	
114	Authors:	Jovy Jay D. Cabrera, Ariel M. Sison, Ruji P. Medina	695-698
	Paper Title:	Locating Optimal Coordinates of Police Deployment and Outpost in Santa Maria Bulacan Using Centroid 360: An Enhanced Centroid Initialization for K means Algorithm	
115	Authors:	Vurity Anudeep, Harshith Ch., Ram Kumar Paidi, Ch. Radha Charan	699-702
	Paper Title:	Lithium Battery Monitoring and Mathematically Modelling its Equation	
116	Authors:	Anju Bala, Priti	703-708
	Paper Title:	Hybrid ACO-PSO-GA-DE Algorithm for Big Data Classification	
117	Authors:	Mustafa Kamil Mahdi, Huda Naji Almamory	709-713
	Paper Title:	Modeling the Information Diffusion of Overlapped Nodes using SFA-ICBDM	
118	Authors:	Aravind J, Parvathi R	714-718
	Paper	A Personalized Location Recommendation System based on Probability and	

	Title:	Proximity	
119	Authors: Paper	S. Shiyamala, Reicelin Rani Design of High Speed H.265 Sample Adaptive Offset Estimation for Ultra Hd Tv	719-724
120	Title: Authors:	Encoding using Clock Synchronization Code Henry A. Hernández Martínez	725-728
120	Paper	Graphical Tool to Estimate the Partial Solution to Linear Optimization Problems	723-726
121	Title: Authors:	Manisha Srivastava, Anita Pradhan	729-732
121	Paper Title:	Understanding the Relationship of Age, ICT Literacy and Knowledge Sharing among Faculties	723 732
122	Authors:	Vaibhava S, B. Prakash Rao	733-735
	Paper Title:	Challenges of Earned Value Management- Application in Indian Construction Industry	
123	Authors:	John Babu <mark>Guttikonda, Sridevi Rang</mark> u	736-743
	Paper Title:	A Meta Classification Model for Stegoanalysis using Generic NN	
124	Authors:	Viktoriya Tkach, Anatolii Pavlenchyk, Olena Sadchenko, Svetlana Nikola, Valeriia Drozdova, Iryna Davydenko	744-747
	Paper Title:	Modelling Buying Demand in the Tourism Industry based on Machine Training Methods	
125	Autho <mark>rs:</mark>	Chemmalar Selvi G, Iqjot Singh	748-759
	Paper Title:	Optimized Recommendation System for E-Commerce on Product Features and User Behavior	
126	Author <mark>s:</mark>	Rajarajeswari S, Neelanarayanan V	760-763
	Paper Title:	Detecting and Resolving Conflicts in Adaptation Rules for the Context Aware System	
127	Authors:	B. Raja Mohamed Rabi, Kanimozhi <mark>Kannab</mark> iran	764-768
	Paper Title:	Neural Network Controlled Primitive Fault Analysis and Monitoring of Wind Turbine Gear Box	
128	Authors:	Snehal Dawkhar, Salim Attar, Satish Rikame	769-773
	Paper Title:	Fabrication of Cation Exchange Membrane for Microbial Fuel Cells	
129	Authors:	Praj <mark>wala.N.B, Ind</mark> umathi.S.M.	774-778
	Paper Title:	A Scientific Research Analysis to Identify Number of Components in a Graph	
130	Authors:	M. Jayan <mark>dran, A T. Ravichand</mark> ran, P. <mark>Lak</mark> shma <mark>nan</mark>	779-782
	Paper	Atmospheric Pollutant Analysis and Corrosion Simulation over LPG Transporting	
121	Title:	Pipelines in Sriperumpudur – Vadakal Industrial Site	702 707
131	Authors: Paper	Veeresha K B, Thejaswi A H	783-787
	Title:	Power Quality Mitigation by Generalized Unified Power Quality Conditioner	
132	Authors:	R. Jeevitha, M. Parimala, R. Udhaya Kumar	788-791
	Paper Title:	Nano Aψ-Connectedness and Compactness in Nano Topological Spaces	
133	Authors:	D. Bhavana, K. Kishore Kumar, V. Rajesh, M. Swetha Sree, D. Mounika, N. Bhavana	792-797
	Paper	Deep Learning for Pixel Level Image Fusion using CSR Technique	

	Title:		
134	Authors:	K. Arun Selvi, K. Kumar, K. Ramalakshmi, A. Sathiya	798-806
	Paper Title:	A Hybrid Framework for TCP Incast Congestion Control in Data Center Networks	
135	Authors:	Kiran Kumar V G, C Shantharama Rai	807-813
	Paper Title:	Low Power High Speed Arithmetic Circuits	
136	Authors:	T. Sandhya, N. Siva Rama Lingham, S. Sundari	814-816
	Paper Title:	Automatic Detection of Accidents and Rescue System Based on IoT	
137	Authors: Paper Title:	Shoaib Mohd Nasti, Zoltán Vámossy, Neerendra Kumar Obstacle Avoidance during Robot Navigation in Dynamic Environment using Fuzzy Controller	817-822
138	Authors:	Narsaiah D <mark>omala, G. S</mark> as <mark>ikal</mark> a	823-826
	Paper Title:	High-Precision Current Conveyor based on BDQFG Miller Ota	
139	Authors: Paper Title:	A.S.F. Subhamathi, G. Sakthi Priya, S. Banumathi Enhancement of Power Quality in Power Grid System using Dual Voltage Source Inverter	827-832
140	Authors:	Alex David S, Mahesh C	833-838
	Paper Title:	Retinal Blood Vessel and Optic Disc Segmentation	
141	Authors:	Gowri Prasad, Prakruthi S T	839-842
	Paper Title:	A Probability based Classification of Named Entities for Malayalam Language combining Word, Part of Speech and Lexicalized features	
142	Authors:	Malvika Tula	843-844
	Paper Title:	Driver Drowsiness Detection using MATLAB	
143	Authors:	Mamatha Balipa, Balasubramani R	845-851
	Paper Title:	Opinion Analysis and Statistics about the Success Rates of Treatments Extracted From Online Healthcare Forums for the Disease Psoriasis using a Pipeline of LDA, NLP and Artificial Neural Network	
144	Authors:	K K <mark>oteswara Rao, P Anil Ku</mark> mar, Ch. Chandra Mohan	852-855
	Paper Title:	Software Test Case Generation and it's curtail using G-Genetic Algorithm	
145	Authors:	Subhashini Sailesh Bhaskaran	856-861
	Paper	Intelligent Context Driven Data Mining To Analyse Student Performance in Higher	
	Title:	Educational Institutions (HEIs)	
146	Authors:	Sumit Chandak, Neeraj Kumar	862-867
	Paper Title:	E-Business Processes and its Influence on Supply Chain performance: In the Context of Indian Automobile Industries	
147	Authors:	Rezq Mohammed Moustafa, Ahmed El Biomy Mansour, Abd El Ghany Mohammed	868-873
	Paper Title:	Voltage Recovery Control Techniques of Grid Connected Variable Speed Wind Turbines at a Short Circuit	000 070
148	Authors:	Neeraja Koppula, B. Padmaja Rani, Koppula Srinivas Rao	874-877
	Paper	Query Expansion using Semantic Network for Information Retrieval in Telugu	

	Title:	Language	
149	Authors:	Pritam Singha Roy, Moumita Guha, Samik Chakraborty	878-881
	Paper	Design and Optimization of V-Shaped Microstrip Patch Antenna with enhanced	
	Title:	Bandwidth in Broadband Applications	
150	Authors:	VC. Vishnu Vardhan Reddy, M. Manohar Reddy, G. Akshitha, K. S. Ramesh, R. Revathi	882-887
	Paper Title:	Evaluation of Tropospheric & Clock Errors for Precision GPS Positioning & Navigation	
151	Authors:	T. Vijaya Prasadini, N. Srinivasu, M. V. Raju	888-892
	Paper Title:	Evaluation of Bacteriological Quality Characteristics of Drinking Waters of few Village Sources in Coastal Areas of Bhimavaram region at West Godavari District, India	
152	Authors:	Remyasree N, Chungath Srinivasan	893-897
	Paper	A Reliable Time Lock Encryption Scheme For Relatively Weak Computational	
	Title:	Resources	
153	Authors:	Sunita Panda, Pad <mark>ma Chara</mark> n Sahu	898-901
	Paper Title:	Computation of System Performance of MIMO Technique in Communication Channel using V-BLAST Method	
154	Authors:	C. Jesuraj, A. Rajkumar	902-909
	Paper Title:	Intuitionistic Nanogonal Fuzzy Numbers and its Application in FDE	
155	Autho <mark>rs:</mark>	Renuka Devi D., Sasikala S.	910-916
	Paper	Accelerated Simulated Annealing and Mutation Operator Feature Selection method	
	Title:	for Big Data	
156	Authors:	T. A. Selvan, A. Viswanathan, S. Madhankumar, S. Sneha	917-920
	Paper Title:	Design and Fabrication of Automatic Spring Type Chip Conveyor	
	Title.	Adi Soeprijanto, Ontoseno Penangsang, Dimas Fajar Uman Putra, Rony Seto	
157	Authors:	Wibowo, Ni Ketut Aryani, Christian H. Sihotang, Shafira Zahra, Eunike W. Adinda, J. Sebastian, M. Verylian,	921-924
	Paper	Operation Scheme And Maintenance of Parabolic Solar Desalination With Pv Pump	
	Title:	System for Isolated Island	
158	Authors:	Mulyani, Rudy Aryanto, Andreas Chang	925-929
	Paper Title:	Understanding Digital Consumer: Generation Z Online Shopping Prefences	
159	Authors:	D. Karthika, K. Kalaiselvi	930-939
	Paper Title:	ISVS3CE: Incremental Support Vector Semi-Supervised Subspace Clustering Ensemble and ENhanced Bat Algorithm (ENBA) for High Dimensional Data Clustering	
160	Authors:	S. Pitchumani Angayarkanni	940-947
	Paper Title:	Predictive Analytics of Chronic Kidney Disease using Machine Learning Algorithm	
161	Authors:	V. Sunitha, Rajesh Arruri, Nagakala Nanjangud Gopal Krishna	948-952
	Paper	The nitty-gritties of Effective Presentations for Technologists	
162	Title: Authors:		953-958
162	Authors:	Presely Rajakumar, Bhuvaneswari Balachander	333-338

	Paper Title:	Characterization of Co and Al Doped with ZnO using Urea	
163	Authors:	Mohemmed Yousuf R, Karthick Myilvahanan J, Sindhanaiselvan K, Mannar Mannan J	959-963
	Paper Title:	Bi-Crypto: An Efficient System with Enhanced Security	
164	Authors:	Priyanka Patel, Amit Thakkar	964-970
	Paper Title:	Recent Advancement in Anomaly Detection in Surveillance Videos	
165	Authors:	Gomathi Loganathan, N. Gopinathan	971-980
	Paper Title:	Internationalization of Small and Medium Enterprises in Indian Business Incubators	
166	Authors:	Pragya Nayak, Je <mark>nila Livingst</mark> on L. M. Pra <mark>gya Nayak, Jenila Liv</mark> ingston L. M.	981-988
	Paper Title:	Automated Notification for Improper Use of AWS Resources	
167	Authors: Paper Title:	S.A.K. Jainulabudeen, S. Murugavalli, H. Shalma Convolutional Neural Network Model for Predicting Skin based Diseases and Evaluation of Risk Assessment	989-993
168	Authors: Paper Title:	Verma, A. K., Nayak, C. Acoustic Measurement in a Rectangular Bubble Column to Determine Bubble Size and Interfacial Area for Aqueous Solutions of Ethylene Glycol	994-998
169	Autho <mark>rs:</mark>	Ruksar Sheikh, Mayank Patel	999- 1002
	Paper Title:	Handwritten Digit Recognition Using Different Dimensionality Reduction Techniques	1002
170	Authors:	V. Agalya, M. Muthuvinayagam, S. Sumathi	1003- 1006
	Paper Title:	Application of AIS on Closed Loop Controller Design in Buck Converter	
171	Authors:	Ayush, Abhishek Kumar, Amitosh Kumar, S. Sridevi, K. Venkateswaran	1007- 1010
	Paper Title:	ABS using Fuzzy Logic in MATLAB and Its Hardware Implementation	
172	Authors:	Rincy T A, Rajesh R	1011- 1015
	Paper Title:	Preprocessed Text Compression Method for Malayalam Text Files	
173	Authors:	Chinmayi, B. G. Shivaleelavathi and Yamini Bai S	1016- 1022
	Paper Title:	Cost Effective Power Quality Improvement Technique by Utilization of Solar Power for Non-Linear Loads	
174	Authors:	Kriti, Urvashi Garg	1023- 1038
	Paper Title:	Unfolding the Restrained Encountered in Hyperspectral Images	
175	Authors:	Jithina Jose, Suja Cherukullapurath Mana, B Keerthi Samhitha	1039- 1043

	Paper Title:	An Efficient System to Predict and Analyze Stock Data using Hadoop Techniques	
176	Authors:	Kiran Jadhav, Deepali Kulkarni	1044- 1049
	Paper Title:	Impact Assessment of Jalyukt Shivar Abhiyan for Padali Helgaon Village Tal-Karad, Dist- Satara	
177	Authors:	Rutanshu Jhaveri, Narayanan Prasanth, Jayakumar K, Navaz K	1050- 1056
	Paper Title:	Parallel and Serial Graph Coloring Implementations with Tabu Search Method	
178	Authors:	Yonik Meilawati Yustiani, <mark>Sri Wahyuni, Anna</mark> Ayudina, Mia Nurkanti, Neneng Suliasih	1057- 1061
	Paper Title:	Determination of Deoxygenation Rate Coefficient as Component in Water Quality Modeling of Middle Segment of Citarum River, Indonesia	
179	Authors:	P. A. Nag <mark>eswara Rao, Y.Sukanya, T Vijaya, P. Mallika</mark> rjuna Rao	1062- 1066
	Paper Title:	Performance Analysis of Pentagon Shaped Microstrip Patch Antenna with Different Substrate Materials	
180	Authors:	N. Srimannarayana, B. Satyanarayana, D. Ramesh	1067- 1071
	Paper Title:	Some Integral Results Associated with Generalized Hypergeometric Function	
181	Autho <mark>rs:</mark>	Siddesh K. B, Basavaraja Banakara, R. Shivarudraswamy	1072- 1081
	Paper Title:	Sliding Mode Controlled DC-DC Buck Converter using Traditional and Proposed Reaching Laws	
182	Authors:	Pooja R, Harshitha U, Supriya S, R Supriya, Keerti Kulkarni	1082- 1085
	Paper Title:	Satellite Image Compression using RICE Algorithm	
183	Authors:	Somdutt Mujwar, Raghav Mishra, Isha Tomer, Alekh Gour	1086- 1091
	Paper Title:	Molecular Docking Simulation based Virtual Screening for The Design of Potential Inhibitors of Heme Oxygenase of Corney Bacterium Diphtheria	
184	Authors:	R. Akil, R. V. Aswin, V. Prasanna, G. Mohanakrishnan, A. Ravinthiran	1092- 1104
	Paper Title:	Development and Analysis of Semi-Automatic Safety Inflation Bag	
185	Authors:	Sudipta Gayen, Sripati Jha, Manoranjan Singh	1105- 1111
	Paper Title:	On Direct Product of a Fuzzy Subgroup with an Anti-fuzzy Subgroup	
186	Authors:	S. Raj Anand, Rama Chaithanya Tanguturi, Soundara Rajan D S	1112- 1117
	Paper Title:	Blockchain Based Packet Delivery Mechanism for WSN	
187	Authors:	Jaya Koshta, Kavita Khare	1118- 1123

	Paper Title:	Efficient Comparator Design for Motion Estimation on FPGA	
188	Authors:	S. Ramarajan, R. Samuel Rajesh Babu	1124- 1128
	Paper Title:	Cascaded Interleaved Boost Converter for High Power Applications	
189	Authors:	Jeyakumar. A, Ravikumar. M. S, Nalanth. N	1129- 1133
	Paper Title:	Hollow Beams Strengthened with Steel Fibres and FRP Wrapping	
190	Authors:	N.Padmaja, D. Leela Rani, <mark>M. Bharathi</mark>	1134- 1138
	Paper Title:	Automated Algorithm for Accurate Doppler Profile Detection of MST Radar Signals Considering Removal of Interference	
191	Authors:	Ashutosh <mark>Bansa</mark> l, <mark>Saleena B., Prakash B</mark>	1139- 1143
	Paper Title:	Using Data Mining Techniques to Analyze the Customers Reaction towards Social Media Advertisements	
192	Authors:	Talluri Sai Kiran, A Vasu Deva Reddy	1144- 1149
	Paper Title:	Evaluating Critical Success Factors of ERP Implementation in SMEs	
193	Autho <mark>rs:</mark>	Balaji Ramakrishna S, Aswatha A R	1150- 1158
	Paper Title:	High Performance Robust Keeper Design Technique for Wide Fan-In Domino OR Logic Using CNTFET 16nm Node Technology	
194	Authors:	E. Laxmi Lydia, N. Sharmili, T. V. Madhusudhanarao, Madhu BabuChevuru, K. Vijaya Kumar	1159- 1163
	Paper Title:	An Integrated Way for Teaching Hadoop & BigData Analytics Course	
195	Authors:	S. Sharmiladevi, S. Siva Sathya, Naveen Kumar	1164- 1171
	Paper Title:	CONNEKT: Co-Located Nearest Neighbor Search using KNN Querying with K-D Tree	
196	Authors:	N. So <mark>umya, Kayam Sai Kumar, K. Raghava Rao, S. Rooban, P. Sampath</mark> Kumar, Gurram Narendra Santhosh Kumar	1172- 1177
	Paper Title:	4-Bit Multiplier Design using CMOS Gates in Electric VLSI	
197	Authors:	K. Sathish Kumar, Basavaraja Banakara, B. V. Sanker Ram	1178- 1182
	Paper Title:	Robust Power System State Estimator using Projection Statistics for IEEE systems	
198	Authors:	Cyril C. George, J. Rengamani	1183- 1187
	Paper Title:	Sagarmala: A Beacon of Development in the Maritime Horizon of India	
199	Authors:	Vinushree S, Rajaram M. Gowda	1188- 1192

	Paper Title:	Segmentation of Lung Cancer using Deep learning	
200	Authors:	Pradeep Vinaik Kodavanti, Jayasree PVY, Prabhakara Rao Bhima	1193 1195
	Paper Title:	Irregular Hexagonal shaped antenna for UWB Applications	
201	Authors:	Palak J Shukla, Atul K Desai, Chetankumar D Modhera	1196- 1210
	Paper Title:	Transient Response of RC Panel Protected with Slurry Infiltrated Micro Reinforced Concrete Jacket under Blast Loading	
202	Authors:	Nikitha Saurabh, Tanzila Nargis	1211- 1216
	Paper Title:	Chronic Disease Prediction Using Effective Feature Selection	
203	Authors:	K Srinivasa <mark>Rao, G Sridhar Babu, A. Dattatreya Kuma</mark> r, U V Narayana Rao and M. Rajesh	1217- 1224
	Paper Title:	Removal of Acid Blue 80 using Industrial Waste Carbon	
204	Authors:	P. Kokila, G. M. Nasira	1225- 1229
	Paper Title:	Uncertainty Handling using Improvised Intuitionistic Fuzzy ANN based Voice Disorder Detection	
205	Autho <mark>rs:</mark>	Ahalya. R	1230- 1233
	Paper Title:	A New Topology on Twenty one level Inverter with Reduced Number of Switches	
206	Authors:	E. Laxmi Lydia, B. Arundhati, Madhusudhanrao Vallabhaneni	1234- 1237
	Paper Title:	Priority towards Subjective and Experimental Framework inTeaching-Learning Process in Engineering Education for Millennial Learners	
207	Authors:	Shweta Deotare, Rubeena A. Khan	1238- 1242
	Paper Title:	Automatic Online Subjective Text Evaluation using Text Mining	
208	Authors:	S.J. Subhashini, B. Stalin, J. Vairamuthu	1243- 1248
	Paper Title:	Improvi <mark>sing Reliability and Security in Multiple Relay Network using</mark> Optimal Scheduling	
209	Authors:	Sahana D Gowda, Niveditha N M, Amulya M P, Namitha A R	1249- 1251
	Paper Title:	Machine Learning For Agribusiness using GIS	
210	Authors:	E. Laxmi Lydia, Gorapalli Chandra Sekhar, Madhu BabuChevuru, Dasari Ramya, K. Vijaya Kumar	1252- 1256
	Paper Title:	Text Mining with Apache Hadoop Over different Hadoop Clusters Architectures	
211	Authors:	Roman P. Bulyga, Irina V. Safonova, Ksenia Y. Burtseva	1257- 1264

	Paper Title:	The Increase in the Effectiveness of Controlling University Activities	
212	Authors:	Milind V. Mohod	1265- 1269
	Paper Title:	Performance of Different Retrofitting Techniques on Existing RCC structures	
213	Authors:	C. Nagarani, R. Kousalya	1270- 1278
	Paper Title:	Round Trip Latency based Authentication Scheme in Fog-Enabled Cloud Computing System	
214	Authors:	Terungwa Stephen Akor, Kam <mark>alularifin bin Subar</mark> i, Hanifah binti Jambari, Muhammad Khair bin <mark>Noordin, Igogbe Regina Onyilo</mark>	1279- 1285
	Paper Title:	Engineering and Related Programs' Teaching Methods in Nigeria	
215	Authors:	Manoranjan Dash, Preeti Y Shadangi, Sunil Kar, Rita Prusty	1286- 1288
	Paper Title:	A Conceptual Model for Telemedicine Adoption: An Examination of Technology Acceptance Model	
216	Authors:	Muhammad Usman Kaisan , Shitu Abubakar, Muhammed Mustapha M S. Narayan	1289- 1292
	Paper Title:	Determination of Wear Metals Debris Concentration in Aircraft Engines	
217	Autho <mark>rs:</mark>	Amudha T, Saravanan K	1293- 1297
	Paper Title:	Security Advantages of Cloud ERP and its Databases in Higher Education	
218	Authors:	Febin Sheron P S, K.P.Sridhar	1298- 1305
	Paper Title:	Improved Provoking Trustworthy Routing using Warning Packet Arising Algorithm in Wireless Ad Hoc Network	
219	Authors:	Shiwani Gupta, Jesal Varoliya, Anupriya Babbar, Archana Nanade, R. R. Sedamkar	1306- 1313
	Paper Title:	Holistic Student Development Model for improving Employability of Engineering Graduates	
220	Authors:	G. Ram <mark>babu,</mark> P. Mohana Gangaraju, J. Eeshwar Ram	1314- 1316
	Paper Title:	Determining the Strength Properties of Concrete using Plastic Waste (Synthetic Polymers & Thermoplastic Polymer Resigns)	
221	Authors:	Pooja Shrivastava, M.K.Verma, Meena Murmu, Ishtiyaq Ahmad	1317- 1322
	Paper Title:	Applicability of the Analytical Hierarchy Process (AHP) in Decision Making for Integrated Urban Water System in a city	1322
222	Authors:	Mohamad Ayas, Vidya Gowdappa Doddawad, BM Gurupadayya	1323- 1328
	Paper Title:	Evaluation of Occupational Exposure to Xylene in Petroleum Workers by Assessing Urinary Methyl Hippuric Acid and Cellular changes of Exfoliated Epithelial Cells in Buccal Mucosa Smears	
223	Authors:	Sourabh Manuja, Suneel Pandey, Pallavi Gulati	1329-

			1335
	Paper Title:	An Audit of Municipal Solid Waste Management in a Mega-City (East Delhi): Challenges and Opportunities	
224	Authors:	S. Sundarbabu, S.Venkatachalam	1336- 1339
	Paper Title:	Key Commercial Point Sentinel During "Order Transfer" from Client and Sales for Execution in Manufacturing Industries	
225	Authors:	IlknurOzturk, AnjelikaHuseyinzadeSimsek	1340- 1344
	Paper Title:	Organizational Perceived Victimization and Aggressive Behaviour as a Defence Against Others' Aggression among Hospital Employees	
226	Authors:	Tutik Inayati, Ignatius <mark>Edward Riantono, Tjia Fie Tjoe</mark>	1345- 1349
	Paper Title:	Inclusion of Information and Communication Technology to MSMEs Strategic Planning in Indonesia	
227	Authors:	Deba <mark>brata Sarddar, Noor Hassan</mark> , Pinaki Das, Rajat Pandit	1350- 1354
	Paper Title:	Reduce the Handoff Failure by Implementing Two WLAN in Handoff Region	
228	Autho <mark>rs:</mark>	R. Sudarshan, S. K. Srivatsa	1355- 1361
	Paper Title:	A Quantitative Analysis of Defect Prevention in E-commerce Projects	
229	Author <mark>s:</mark>	S. Jothi Shri, S. Jothilakshmi, G. Jawaherlalnehru	1362- 1367
	Paper Title:	Real Time Face Recognition in Group Images using LBPH	
230	Authors:	L.Raja, G.Shanthi, P.S.Periasamy	1368- 1372
	Paper Title:	Internet of Things based Real Time Water Monitoring System	
231	Authors:	M. Manoj Kumar, S.Hari Prasanna Rao, B.Lalithya, P.Sai Bhargavi, A.Pavan kumar	1373- 1378
	Paper Title:	Level of Service of Roads in Vijayawada	
232	Authors:	Sergey <mark>Kh. Peteraitis, Olga L. </mark> Shepelyuk, Irina <mark>N. Fardeeva</mark>	1379- 1382
	Paper Title:	Learning Strategies in Distance Education	
233	Authors:	Tatiana V. Dobudko, Andrei V. Ochepovsky, Sergey V. Gorbatov, Wahidah Hashim , Andino Maseleno	1383- 1386
	Paper Title:	Functional Monitoring and Control in Electronic Information and Educational Environment	
234	Authors:	Nitika Khurana, Ritula Thakur	1387- 1391
	Paper Title:	Integrated Simulation of Pacemaker and Heart Model with VISSIM	_551
235	Authors:	Sivala Vishnu Murty, R Kiran Kumar	1392-

			1400
	Paper Title:	Enhanced Classifier Accuracy in Liver Disease Diagnosis using a Novel Multi Layer Feed Forward Deep Neural Network	
236	Authors:	U M Gopal Krishna, Aliya Sultana, T Naraya Reddy	1401- 1411
	Paper Title:	Investors Perception towards Investment Avenues	
237	Authors:	Mahadevan Palanichamy, Ramaswamy Sankaralingam Narayanasamy	1412- 1427
	Paper Title:	Prediction and Validation of Rainfall Classes for Vaigai River Catchment using El Nino	
238	Authors:	S. Gomathi	1428- 1432
	Paper Title:	A Deep learning of Autism Spectrum Disorder using Naïve Bayes, IBk and J48 classifiers	
239	Authors:	Ch.Subramanyam Teja, Tej Sai Moturu, G.Yaswanth Kumar, Haroon Ali Khan	1433- 1436
	Paper Title:	Effect of Fire on Prefabricated Concrete Beam Column Connections	
240	Autho <mark>rs:</mark>	Neetu Bali, Chandranshu Sinha	1437- 1442
	Paper Title:	Exploring the Mediating Role of Technology between Human Realms and Institutional Properties of Organizations with Special Reference to It Industry in India	
241	Author <mark>s:</mark>	Suresh Dannana, Babji Prasad Chapa, Gottapu Sasibhushana Rao	1443- 1448
	Paper Title:	Spectrum Sensing for OFDM Cognitive Radio using Matched Filter Detection	
242	Authors:	Ching Vern Liow, Darrien Yau Seng Mah, Mohd Remy Rozainy Bin Mohd Arif Zainol	1449- 1452
	Paper Title:	Modelling of StormPav Green Pavement System with Storm Water Management Model and InfoWorks Collection System	
243	Authors:	Arta Moro Sundjaja, Sri Bramantoro Abdinagoro, Ford Lumban Gaol, Bahtiar S. Abbas	1453- 1457
	Paper Title:	Examining the Validity and Reliability of Online Visitor Behavior in Indonesia's Museum Industry	
244	Authors:	J. Harikr <mark>ishna, Ch. Rupa, P. R</mark> aveendra Babu	1458- 1461
	Paper Title:	Safe Light Weight Cipher using Ethernet and Pentatop Number	
245	Authors:	Harini Srivatsan, Ujjwal Purimetla, Venkat Dattathreya, Vaishnav Gangadhar, Prakash Marimuthu	1462- 1464
	Paper Title:	Effect of Cutting Conditions on the Residual Stresses Induced by Milling of AISI 1045 Steel	
246	Authors:	Rashmi Samanth, Subramanya G. Nayak	1465- 1469
	Paper Title:	Design and SV based Verification of AMBA AXI Protocol for SOC Integration	

247	Authors:	P.G.Bansod, Dinesh Bhutada, Shrikant Barkade, Shyam kodape	1470- 1474
	Paper Title:	Enhancement of Separation Efficiency for Nano Filtration Membrane using Water-Soluble Polymer.	
248	Authors:	Sindhura Mangalampati, Raveendra Babu Ponnuru	1475- 1477
	Paper Title:	Query based Text Summarization	
249	Authors:	Sayyad Rasheeduddin, Kurra Rajasekhar Rao	1478- 1488
	Paper Title:	Extreme Learning Machine for Thyroid Nodule Classification with Graph Cluster Ant Colony Optimization based Feature Selection	
250	Authors:	Prashant Kumar <mark>Srivastava, Simant,</mark> Sanja <mark>y Sh</mark> ukla	1489- 1494
	Paper Title:	Topology Optimization: An Effort to Reduce the Weight of Bottom Centre Pivot	
251	Authors:	Dwi Wahyuni, Rifqi Fuadatul Lathifa, Vendi Eko Susilo	1495- 1498
	Paper Title:	Safety of Bioinsecticide Ekstract Sugar Apple Seed's Granule (Annona squamosa L.) on Histology of White Rat (Rattus norvegicus B.)	
252	Autho <mark>rs:</mark>	B. Kishore, V. Vijaya Kumar	1499- 1508
	Paper Title:	Classification of Textures based on Ternary Transition Motif Matrix Features	
253	Author <mark>s:</mark>	Liudmila P. Luneva, Liliya A. Meteleva, Aygul Z. Ibatova	1509- 1514
	Paper Title:	Communicative Activity of a Teacher and the Possibility of its Improvement in Terms of a Technical University	
254	Authors:	M.Kathirvelu V. Parimala	1515- 1518
	Paper Title:	Design & Implementation of Intelligent System for Identification of Fuel Fraudulents and Near by Fuel Stations	
255	Authors:	Su <mark>listyo Heripracoyo</mark> , Harjanto Prabowo, Raymond Kosala, Ford Lumban Gaol	1519- 1523
	Paper Title:	Innovation Capability Improvement in Digital Creative Industries	
256	Authors:	Reina Se <mark>tiawan, Widodo Bud</mark> iharto, <mark>Iman Herwidiana Kartowisastr</mark> o, Harjanto Prabowo	1524- 1530
	Paper Title:	Enhancing Focus Topic Findings of Discussion Forum through Corpus Classifier Algorithm	
257	Authors:	Noprianto, Benfano Soewito, Ford Lumban Gaol, Bahtiar Saleh Abbas	1531- 1535
	Paper Title:	Multiplatform Application User Interface Design based on Spreadsheet	
258	Authors:	Surender Singh, Sonam Sharma	1536- 1542
	Paper Title:	On Generalized Intuitionistic Fuzzy Knowledge Measure and its Application in MADM using Combined Weights	- · -

250		DC II I FWALL	1543-
259	Authors:	B.Sudhakar, E.V.Abhinaya	1547
	Paper Title:	An Efficient Network Discovery Storage based Resilient Packet-Forwarding Scheme for the Mitigation of Black Hole and Wormhole Attacks in 6lowpan Sensor Networks	
260	Authors:	Munisha Devi, Nasib Singh Gill	1548- 1554
	Paper Title:	Performance Analysis of Enhanced Ad-Hoc on-Demand Distance Vector Routing Protocol in Smart Environment	
261	Authors:	Kamaljit Kaur, Kanwalvir Singh Dhindsa	1555- 1560
	Paper Title:	TrendNet Algorithm: Towards Personalization of Twitter Trends	
262	Authors:	Rubini S, Bala <mark>murugan P, Sh</mark> un <mark>muga</mark> priya <mark>.K</mark>	1561- 1564
	Paper Title:	Exploring the use of Cactus and Neem Leaf Powder as an Alternative Coagulant in Treatment of Wastewater	
263	Authors:	Fursov A. V., Sinyavskiy N. I., Natalia L Ivanova, Sergey K. Peteraitis	1565- 1567
	Paper Title:	Organization of Pedagogical Control of Trainees' Physical Preparedness based on on-Line Service "As Phcsc Rld" Application	
264	Authors:	Sheila R. Lingaya	1568- 1573
	Paper Title:	Towards a Bespoke Document Tracking System for Philippine Higher Educational Institutions	
265	Author <mark>s:</mark>	Nithyanandh S, Jaiganesh V	1574- 1579
	Paper Title:	Dynamic Link Failure Detection using Robust Virus Swarm Routing Protocol in Wireless Sensor Network	
266	Authors:	Nasir, Burhanuddin Tola, Wibowo, Hamidah	1580- 1586
	Paper Title:	The Effect of Competence and Compensation on the Performances of Agricultural Extension Employee in Banten Province of Indonesia in Digital Era 4.0	
267	Authors:	Svetlana Kanareikina, Vladimir Kanareikin, Ekaterina Ganieva, Nina Burakovskaya, Maxim Shadrin, Olga Khalepo, Maria Babaeva, Natalia Nikolaeva, Olga Voskanyan	1587- 1592
	Paper Title:	The Structure Development of Yogurt with Vegetable Ingredients	4500
268	Authors:	Snehal S <mark>. Patil, Deepali R. Kul</mark> karni, <mark>Pad</mark> masin <mark>h D. Patil. </mark>	1593- 1599
	Paper Title:	Watershed Management for Ingrul village in Sangli District, Maharashtra by using GIS	
269	Authors:	S.Dhivya, B. Sudhakar	1600- 1607
	Paper Title:	Forgery Detection based on KNN Classifier using SURF Feature Extraction	
270	Authors:	Jagsir Singh, Jaswinder Singh	1608- 1611
	Paper Title:	Ransomware: An Illustration of Malicious Cryptography	·

271	Authors:	Muhamad Husaini Abu Bakar, Mohamad-Syafiq Mohd-Kamal, Zahurin Samad	1612- 1618
	Paper Title:	CFD Analysis of Magnetorheological Fluid Single Valve with an External Magnetic Field	
272	Authors:	S L Sanjith, E. George Dharma Prakash Raj	1619- 1625
	Paper Title:	Decentralized Time-Window based Real-Time Anomaly Detection Mechanism (DTRAD) in lot	
273	Authors:	Snehal R. Patil, Deepali R. Kulkarni, Vilas B. Joshi.	1626- 1632
	Paper Title:	Effect of Variable Slopes on the Flow Conditions for Side Channel Spillway	
274	Authors:	Reji C. Joy, S. Hemalatha	1633- 1638
	Paper Title:	Fingerprint Image Segmentation using Deep Features and SVM	
275	Authors:	Haishang Wu, Raymond Wu Haishang Wu, Raymond Wu Haishang Wu, Raymond Wu	1639- 1645
	Paper Title:	The Role of Educational Action Research of Recycling Process to the Green Technologies, Environment Engineering, and Circular Economies	
276	Autho <mark>rs:</mark>	Mukesh Kumar, Amandeep Verma	1646- 1653
	Paper Title:	Development of Document Clustering Technique for Gurmukhi Script using Fuzzy Term Weight	
277	Author <mark>s:</mark>	K. Rajesh, G. Umamaheswara Reddy	1654- 1658
	Paper Title:	FPGA Implementation of Encryption and Decryption of a Message using Optimized Reconfigurable Reversible Gate	
278	Authors:	Jeswin Roy Dcouth, K Somasundaram	1659- 1663
	Paper Title:	A Secure Message Passing Method using Multi-Layer Adaptive Video Steganography	
279	Authors:	Mengistu Guliti Buba, Debi Prasad Das, Sanjaya Kumar Ghadai, Anil Bajpai	1664- 1668
	Paper Title:	The Effect of Integrated Warehouse Operation Efficiency on Organizations Performance	
280	Authors:	T.R.Rangaswamy, V.Jayalakshmi	1669- 1671
	Paper Title:	On Line Dirt Based Soot Blowing System using Fuzzy Logic for Utility Boilers	
281	Authors:	G.Hemavathi, S.Sherine, K.Dwarakesh	1672- 1677
	Paper Title:	Improvement of Power Quality in Fourteen-Bus System with Three and Five Level IPFC	
282	Authors:	J Rashmi, Jagadeeswari P	1678- 1680
	Paper Title:	Basic Results of Convex Category Theory	_333

283	Authors:	P.Jagadeeswari, J.Rashmi	1681- 1684
	Paper Title:	The Ultra-Analytically Composite Case on Multiply Singular Polytopes	
284	Authors:	P.Vignesh, P.Madan, D.Mohankumar, Naveenchandran.P	1685- 1691
	Paper Title:	Optimization of Four Stroke c.i. Engine Performance by using Statistical Techniques (Mathematical Method)	
285	Authors:	G. Subashini, J. Arthy, Aishwaraya	1692- 1695
	Paper Title:	Reversibility Connections to Landau's Conjecture on Stability	
286	Authors:	S.Kavitha, D.Vimala	1696- 1699
	Paper Title:	The Impact of Cacheable Epistemologies on Networking	
287	Authors:	Mudiganti Ram Krishna Rao, Sam <mark>pad Shil</mark>	1700- 1702
	Paper Title:	Some Observations on Thin Layer Chromatography Technique	
288	Autho <mark>rs:</mark>	G.Michael, C.Rajabhushanam	1703- 1705
	Paper Title:	Empowering Client Android Applications on Distributed Cloud Servers in Data Center	
289	Author <mark>s:</mark>	Thejas Bharathan, Santhosh Kumar B J	1706- 1710
	Paper Title:	Implementing Information Security Mechanism Over Cloud Network	
290	Authors:	Athira N, Anjaly Anand	1711- 1716
	Paper Title:	Numerical Experimentation Research in Optimizing the Signal Rate & other Related Factors on Traffic Flow	
291	Authors:	Mi <mark>dhu Mathew, San</mark> tosh Anand, Somnath Sinha	1717- 1721
	Paper Title:	A Hy <mark>brid Algorithm for Balancing Load in Wireless Sensor Network</mark>	
292	Authors:	Harsha R <mark>. Vyawahare, Pravin</mark> P. Kard <mark>e, V</mark> ilas <mark>M. T</mark> hakare	1722- 1726
	Paper Title:	Improving Performance using Relational and Graph Database	
293	Authors:	Arun P Prabhan, Santosh Anand, Somnath Sinha	1727- 1731
	Paper Title:	Identifying Faulty Nodes in Wireless Sensor Network to Enhance Reliability	
294	Authors:	Alamuru Gandla Bhargavi, Nandini H N, Akshay S	1732- 1736
	Paper Title:	Cancer cell Detection using FMM Compressed Images	

295	Authors:	Nischitha G. K, Sahana S, Santhosh Kumar B. J.	1737- 1740
	Paper Title:	Detection and Avoidance of Web Vulnerability using XSS	
296	Authors:	Akshay S, Mandara S, Aishwarya Govinda Rao	1741- 1745
	Paper Title:	Facial Expression Recognition using Compressed Images	
297	Authors:	Ajay Bazil Issac, Manohar N, Varsha Kumari Jain M	1746- 1750
	Paper Title:	Segmentation for Complex Background Images using Deep Learning Techniques	
298	Authors:	Vinayak Hegde, Sahana Patil, Smruthi G	1751- 1755
	Paper Title:	Learning Pathway: Analytical Framework to Predict Learner's Learning Effectiveness and Performance	
299	Authors:	Rexel U. Sabran, Arnel C. Fajardo	1756- 1762
	Paper Title:	An Improved Sunflower-Inspired Solar Tracking Strategy for Maximizing Photovoltaic Panel Power Generation	
300	Authors:	Alexandra Mae C. Laylo, Mark Daryl A. Decillo, Louie Andrew F. Boo, Jeffrey S. Sarmiento	1763- 1767
	Paper Title:	Signify: Signature Verification Technique using Convolutional Neural Network	
301	Authors:	Elmer C. Matel, Herchel Aquines, Carl Brian S. de Guzman, Jasond Isaac V. Gustilo,	1768- 1772
	Paper Title:	Gregg Victor P. Ibera, Priam D. Jodilla ECHO: Hands-Free Computer Interaction using Speech Recognition System for the Debilitated	1//2
302	Authors:	Ken Jon M. Tarnate, Madhavi Devaraj	1773- 1778
	Paper Title:	Prediction of ISO 9001:2015 Audit Reports According to its Major Clauses using Recurrent Neural Networks	
303	Authors:	Ja <mark>y M. Ventura, Arn</mark> el C. Fajardo, Ruji P. Medina	1779- 1783
	Paper Title:	Alternative Priority-based Queuing for WBAN	
304	Authors:	Elizabeth S. Nsubuga, Joven B. Cajigas, Julie Ann L. Rombaoa, John Melvin M. Garcia, Daniel P. Cruz, David Collins G. Olfato, Christine Micaela E. Cañeda	1784- 1788
	Paper Title:	Matherpiece: An Introduction to Math E-Learning PC Game Application for Grade 1 Pupils	
305	Authors:	Ricardo Q. Camungao	1789- 1793
	Paper Title:	STCLARanS: An Improved Clustering Large Applications based on Randomized Search Algorithm using Slim-tree Technique	
306	Authors:	Aaron Don M. Africa, Glenn Julius S. Cruz, Jerick C. Dilla, John Carlos M. Hung, Kristel Anne G. Mendoza, Jun Lin Tian	1794- 1801
	Paper Title:	Implementation of Solar Electricity and Water Filtration systems for a Smart House	

307	Authors:	Maria Elora Asuncion, Daryll Castromero, John Jericho Medrana, Julian Aldrin Parin, Calvin Jazer Sales, Raymund Constante, Herchel Aquines	1802- 1809
	Paper Title:	COALESCENCE: An Android-Based Instructional Application with Augmented Reality for Chemistry Students	
308	Authors:	Herman B. Acla, Bobby D. Gerardo	1810- 1815
	Paper Title:	Performance Evaluation of Lightweight Advanced Encryption Standard Hardware Implementation	
309	Authors:	Freddie Rick E. Labuanan, Sheena-Jean E. Tapaoan, Ricardo Q. Camungao	1816- 1821
	Paper Title:	Application of Representation and Fitness Method of Genetic Algorithm for Class Scheduling System	
310	Authors:	Juan Raphael <mark>Sena, Melvin C</mark> ab <mark>atua</mark> n	1822- 1827
	Paper Title:	Deep Learning-based Facial Expression Recognition and Analysis for Filipino Gamers	
311	Authors:	Sammy V. Militante	1828- 1832
	Paper Title:	Fruit Grading of Garcinia Binucao (Batuan) using Image Processing	
312	Autho <mark>rs:</mark>	Vincent M. Musa, Jennifer B. Enriquez	1833- 1838
	Paper Title:	Development of IEEE 802.11 Compliant Antenna with WLAN Mobile Multimedia Messaging Application for Emergency Communication Purposes	
313	Author <mark>s:</mark>	Marvin R. Arenas, Josephine S. Dela Cruz	1839- 1845
	Paper Title:	Analyzing the Students Behavior with Down Syndrome in a Gamified Learning Environment	
314	Authors:	G.S.Raju	1846- 1848
	Paper Title:	Collision of Unethical Practices on Business Environment	
315	Authors:	Di <mark>pa Nitin Kokane, G</mark> eeta Nijhawan, Shruti Vashist	1849- 1854
	Paper Title:	Evaluation of Non-Orthogonal Techniques for Advance Wireless System	
316	Authors:	D.Madeswaran, P.Selvam	1855- 1860
	Paper Title:	Back To Back Converter based Real and Reactive Power Control with Constant Speed Operation of Dfigin Wind Mill	
317	Authors:	K. Leela Prasad, P. Anusha, M. Srinivasa Rao, K. Venkata Rao	1861- 1865
	Paper Title:	A Machine Learning based Preventing the Occurrence of Cyber Bullying Messages on OSN	
318	Authors:	B Ramanjaneyulu, N Venkatachalapathi, G Prasanthi	1866- 1869
	Paper Title:	Tensile and Micro Structural Properties Analysis of Biodegradable Polymer Blends	-

319	Authors:	Rajkumar Murugesan, S. K. Sudarsanam, Malathi. G, V. Vijayakumar, Neelanarayanan.V, Venugopal. R, D. Rekha, Sumit Saha, Rahul Bajaj, Atishi Miral, Malolan V	1870- 1877
	Paper Title:	Artificial Intelligence and Agriculture 5. 0	
320	Authors:	Naveen Bansal, Satbir Singh Sehgal, Manpreet Singh	1878- 1889
	Paper Title:	Heat Transfer and Fluid Flow Analysis on Microchannel Heat Sink with Varying Plenum Size	
321	Authors:	S. Premanandand, G. Arunkumar	1890- 1895
	Paper Title:	Design, Development and Numerical Experiments of Compliant Anchor Mechanism for Clamping Purpose - A Topology Optimization Method	
322	Authors:	M.Mailsamy, <mark>V.Rukkumani, K.Srinivasan, B.Sh</mark> armila	1896- 1901
	Paper Title:	Low-Power Adiabatic Computing with Modified Quasi Static Energy Recovery Logic of MQSERL 4x4 multiplier	
323	Authors:	Radha Krishna Gopidesi, Srinivas Viswanth Valeti, Nagarjuna Kumma, Avinash Mutluri, Borigorla Venu	1902- 1905
	Paper Title:	Evaluation Dual Fuel Engine Fuelled With Hydrogen and Biogas as Secondary Fuel	
324	Autho <mark>rs:</mark>	S. Shanmugapriya, S. Geethanjali, Suryakanta Swain, Devesh Goel, Harshavardhan Goud	1906- 1909
	Paper Title:	Improved Power Quality Switched Inductor CUK Convertor for Variable Speed DC Motor with PIC Microcontroller	
325	Authors:	Atul Bansal	1910- 1915
	Paper Title:	An Evaluation of Current Status of Associated Party Revelation of Listed Companies in Bahrain	
326	Authors:	Zara Poursafar, Lewlyn L R Rodrigues, Sriram K V	1916- 1921
	Paper Title:	Architectural Design Model for office interior to suit Personality types and to enhance Productivity	
327	Authors:	Shu <mark>bham.S.N</mark> ayak, <mark>Deepa.A</mark> .Joshi	1922- 1927
	Paper Title:	Ingeni <mark>ous Techniques</mark> for Creation of Smart Cities by Big Data Technology & Urban Modelling Simulation by Matsim	
328	Authors:	S.N. Dhurvey, V. K. Chandrakar, P.P. Ashtankar, P.R.Rothe	1928- 1932
	Paper Title:	RBFN based IPFC for Enhancement of Power System Security	
329	Authors:	P.Meenakshi Sundaram	1933- 1938
	Paper Title:	The Grid bus Toolkit for Service Oriented Grid and Utility Computing	
330	Authors:	V. Priyadarshini, S. Gomath,	1939- 1945
	Paper	Corporate Social Responibility and Its Influence on Customer Satisfaction among	

	Title:	Students of Selected Private Engineering Colleges in Tamilnadu	
331	Authors:	Naga Prathyusha S, A.H.L. Swaroop	1946- 1950
	Paper Title:	Strength and Durability Properties on Fiber Reinforced Concrete by Replacing Fine Aggregate with Stone Powder	
332	Authors:	R. Muthu Vaidyanathan, Mahaboob Patel, N. Sivaraman, Mebratu Markos, Tsegaye Alemayehu	1951- 1956
	Paper Title:	Microstructural Evaluation of Friction Stir Welded Aluminium Alloy 6063	
333	Authors:	T. Mohan krishna, K. Pr <mark>afulla Devi</mark>	1957- 1961
	Paper Title:	Internal Curing Efficiency of Pre-Wetted Lightweight Fine Aggregates on Strength Parameters of Concrete	
334	Authors:	S. JothiLakshmi , M.Thangaraj	1962- 1966
	Paper Title:	Recommender System for Stimulating the Learning Skill of Slow Learner in Higher Educational Institution using EDM	
335	Authors:	Gawas Santoshi Shyamsundar, G. Raju	1967- 1971
	Paper Title:	A System to access IRNSS Data from Different Receiver Stations using Cloud Computing	
336	Autho <mark>rs:</mark>	S.Meziane, L.Bahi, L.Ouadif	1972- 1977
	Paper Title:	Automatic Recognition of Land Instability	
337	Authors:	Mogili Sudhakar, M. Heeralal, G. Kalyan Kumar	1978- 1983
	Paper Title:	Interface Frictional Properties of Geogrid-Reinforced Pond Ash	
338	Authors:	Hajer Ahmed Albahaloul, Fatma Susilawati Mohamad, Khaled Alhadi Meftah	1984- 1989
	Paper Title:	Define the Factors Affecting the Shift to Cloud Computing in Malaysian Universities	
339	Authors:	Yog <mark>esh Garg, Neeta Anand</mark>	1990- 1994
	Paper Title:	Impact of GST on the Exports of Carpets & Floorings Industry in India	
340	Authors:	Marwan Bsharat, Othman Ibrahim, Sawsan Bsharat	1995- 1999
	Paper Title:	Proposing a New Model for Quality of Service Acceptance	
341	Authors:	Kiran Kumar Kuthadi, ND. Sridhar, CH. Ravi Kumar	2000- 2006
	Paper Title:	WIPSO, PSO and GA Techniques to Locate UPFC Effectively in Power System to Improve Voltage Stability and Reduce Losses	
342	Authors:	T. Santhosh Kumar, Balaji KVGD, K. Prudhvi Raju	2007- 2011
	Paper	Sound Absorption Characteristics of Ternary Concrete using SCBA and Silica Fume	

	Title:	as Partial Replacement of Cement in Concrete	
343	Authors:	Joko Waluyo, Dwi Wahyuni, Wiwien S. Utami	2012- 2014
	Paper Title:	Healing Effects of Fresh Earthworms (Pheretima Javanica K.) for Typhoid Fever Induced in Male White Rat (Rattus Norvegicus L.)	
344	Authors:	Cherry Bhargava, Shivani Gulati, Pardeep Kumar Sharma	2015- 2019
	Paper Title:	Estimation of Residual Lifetime of Electrolytic Capacitor using Analytical Techniques	
345	Authors:	J. Premalatha, SahayaAnselin Nisha	2020- 2023
	Paper Title:	Energy Competence of Base Station in cellular Network	
346	Authors:	Manjith B.C.	2024- 2034
	Paper Title:	Improving Correctness of Logic Circuit using Self-Healing Built-In Logic Test Module in FPGA using Dynamic Partial Reconfiguration	
347	Authors:	G.V. Subbaiah, P.V.Sanjeeva Kumar, P.Hemavathi, Y.Suresh Reddy	2035- 2037
	Paper Title:	Experimental Research on Improvement of Battery Reliability	
348	Autho <mark>rs:</mark>	Swati Sharma, Mamta Bansal	2038- 2040
	Paper Title:	Stemming and Lemmatization of Tweets for Sentiment Analysis using R	
349	Authors:	Saurabh Sharma, Suraj Kumar Singh, Varun Narayan Mishra	2041- 2045
	Paper Title:	GIS Based Mapping of Optical Fiber Cable in a Part of ALWAR District, Rajasthan, India	
350	Authors:	N. Priyadarsini, M. Ramasekhara Reddy, M. Vijaya Kumar	2046- 2050
	Paper Title:	Implementation of Intelligent Algorithms for Pitch Angle and Output Power Control of Dfig Wind Turbine System	
351	Authors:	Abhishek Pandey, P.T. Nimbalkar	2051- 2059
	Paper Title:	Effect of Soil Non-Uniformity on Scour For Circular Compound Bridge Piers	
352	Authors:	PhaniKumar.V, M.Deepthi, Saikiran K, R.B.N. Santhosh	2060- 2068
	Paper Title:	Behavior of P-Delta Effect in High- Rise Buildings with and without Shear Wall	
353	Authors:	Sridhar Raja K S, Senthil Kumar.J, Sangeetha M, Sivasaravanan S	2069- 2073
	Paper Title:	Design of Adapting Multi-Servo Concept with Optimal Change in Tractor Brakes	
354	Authors:	A.Mary Shiny, A. Chandra Shaker	2074- 2078
	Paper	An Efficient Technique for Enhancing Robustness of Scale-free Wireless Sensor	

	Title:	Networks	
355	Authors:	Anuj Kumar Yadav, M.L.Garg, Ritika	2079- 2084
	Paper Title:	Cryptographic Solutions for Cloud-Based Storage System	
356	Authors:	Jeet P. Patil, V. M. Nandedkar, Sushil Mishra	2085- 2092
	Paper Title:	Thermal Analysis of The Heating Stage of the Thermoforming Process	
357	Authors:	A.Karunamurthy, M.Aramudhan	2093- 2096
	Paper Title:	Predictive Health Analytic Model in Federated Cloud	
358	Authors:	Lalit P. Gan <mark>orkar, Dine</mark> sh <mark>V. Rojatkar</mark>	2097- 2103
	Paper Title:	Indian Handwritten Script Identification System based on Random Forest Tree Ensembles	
359	Authors:	Srikanth Parikibandla, Sreenivas Alluri	2104- 2110
	Paper Title:	Lorentz Chaotic System Key generation with Low Area FPGA Implementation using Present Security Algorithm	
360	Autho <mark>rs:</mark>	V.Radhika, K.Baskaran, K.Srinivasan	2111- 2115
	Paper Title:	Design and Implementation of Fpga Based Digital Switching Controller for Dc-Dc Converters Used In System- On- A-Chip Applications	
361	Authors:	Mrunal Pathak, Vinayak Bairagi, N. Srinivasu	2116- 2124
	Paper Title:	Entropy Based CNN for Segmentation of Noisy Color Eye Images using Color, Texture and Brightness Contour Features	
362	Authors:	V Srinivasa Reddy, M V Seshagiri Rao, S Shrihari	2125- 2130
	Paper Title:	Strength Conversion Factors for Concrete Based On Specimen Geometry, Aggregate Size and Direction of Loading	
363	Authors:	Tripti Sharma	2131- 2135
	Paper Title:	Improved Network Lifetime in Mobile Wireless Sensor Networks using Adaptive Algorithms	
364	Authors:	Manjusha Balusu, Jitendra Alaparthi	2136- 2138
	Paper Title:	Open Interest Analysis Based on IPTV Users	
365	Authors:	P.Sivashankari, K.R.Kavitha, J. Lilly Mercy, A.Krishnamoorthy, S.Prakash	2139- 2146
	Paper Title:	Modeling Of Automotive Radiator by Varying Structure of Fin and Coolant	
366	Authors:	A. V. Sudhakara Reddy, N. Rajeswaran, D. Raja Reddy	2147- 2151
	Paper	Application of Modified ALO to Economic Load Dispatch for Coal Fired Stations	

	Title:		
367	Authors:	Kimmi Kumari, M Mrunalini	2152- 2159
	Paper Title:	Techniques, for Data Extraction from, Heterogeneous Sources with Data Security	
368	Authors:	Lambe Mutalub Adesina, Kamaldeen Saadu, Ganiyu Adedayo Ajenikoko	2160- 2167
	Paper Title:	Transformer Oil Regeneration as a Panacea for Electric Power Utility Company's Equipment Optimization	
369	Authors:	Dhavakumar.P, Gopalan. N. P	2168- 2179
	Paper Title:	Defect Prediction and Dimension Reduction Methods for Achieving Better Software Quality	
370	Authors:	Sumana De, Baisakhi Chakraborty	2180- 2193
	Paper Title:	A Novel CBR-Decision Tree Based Intelligent Car Fault Diagnosis System (CFDS)	
371	Authors:	Gudla Ramalakshmi , P. Mallikarjuna Rao	2194- 2200
	Paper Title:	Performance Characteristics of Modified Sierpinski Fractal Antenna for Multiband Applications	
372	Autho <mark>rs:</mark>	Kallakunta Ravi Kumar, Siva Sankar Asadi, Venkata Ratnam Kolluru, M.V.Raju	2201- 2206
	Paper Title:	Preparation of Drainage Map Using Geoinformatics	
373	Authors:	Sudhir A. Kadam, Mahesh S. Chavan	2207- 2210
	Paper Title:	Design of Digital Filter by Differential Evolution	
374	Authors:	Mainejar Yadav, Ranvijay	2211- 2220
	Paper Title:	Verifiable Essential Secret Image Sharing with Multiple Decryptions	
375	Authors:	Pushpender Sarao	2221- 2228
	Paper Title:	A Throughput Based Fuzzy System In MANET	
376	Authors:	AhamadZ <mark>aki Mohamed Noor, FairulAzniJafar, MuhamadHusaini A</mark> bu Bakar, Shahruzaman Sulaiman	2229- 2237
	Paper Title:	Design of Reverse and Missing Jaw Detector Jig Using Analytic Hierarchy Process (AHP)	2237
377	Authors:	Manjunath D R, Thimmaraju S N	2238- 2247
	Paper Title:	Secure Hash Authentication And Cryptography Based Geographical Routing (SHAC-GR) For Wireless Sensor Networks	2217
378	Authors:	Ravi Shankar Raman, Yadavalli Basavaraj	2248- 2252
	Paper	Quality Improvement of Capacitors through Fishbone and Pareto Techniques	

	Title:		
379	Authors:	Hamsa S, Ananth. A.G, Thangadurai. N	2253- 2257
	Paper Title:	Design of Non-Volatile Phase Change Memory for FPGA Architectures	
380	Authors:	M.Nikhitha, M.A.Jabbar	2258- 2262
	Paper Title:	K Nearest Neighbor Based Model for Intrusion Detection System	
381	Authors:	Divya Byri, Kafila, Srinivas Aluvala	2263- 2266
	Paper Title:	Holistic Model That Affect the Success or Failure of the Implementation of Big Data	
382	Authors:	Mohana. N, <mark>Kalyani De</mark> si <mark>kan, V.Rajkumar Dare</mark>	2267- 2270
	Paper Title:	Topological Properties of Parallel Series Language	
383	Authors:	D. P. Gadekar, N. P. Sable, A. H. Raut	2271- 2273
	Paper Title:	Exploring Data Security Scheme into Cloud Using Encryption Algorithms	
384	Autho <mark>rs:</mark>	Rincy Merlin Mathew, R. Suguna, M. Shyamala Devi	2274- 2279
	Paper Title:	Assimilation of Blockchain for Augmenting the Security and Coziness in IoT Based Smart Home	
385	Authors:	K.S.K. Mallik, K.V. Ramana	2280- 2282
	Paper Title:	Nano Coat as an Effective Replacement for Bearing Liner	
386	Authors:	P. V. Ramana Murthy, CH. G. V. N. Prasad	2283- 2288
	Paper Title:	Automatic Telugu Handwritten Character Recognition with the Help of Legendre- Sobolev Divergent Machine Learning Model	
387	Authors:	G. Anusha, S. Vishwa Prasad Rao, C. Bala Rama Krishna	2289- 2291
	Paper Title:	Designing Of Modeling and Applications in Typical Engineering Process	_
388	Authors:	B.Nataraj, K.R.Prabha	2292- 2296
	Paper Title:	Design of 3-Bit Digital RF Phase Shifter for Wireless Communication	
389	Authors:	Manish Agrawal, Asif Ullah Khan, Piyush Kumar Shukla	2297- 2305
	Paper Title:	Stock Price Prediction using Technical Indicators: A Predictive Model using Optimal Deep Learning	
390	Authors:	Jitendra Mohan Giri and Pawan Kumar Singh Nain	2306- 2311
	Paper	Optimization of Refrigeration Rate for a Thermoelectric Cooler in Restricted Space	

	Title:	using Stochastic Algorithms	
391	Authors:	M.Sangeetha, S.Prakash, T.N.Valarmathi, J.Lilly Mercy, R.Siva	2312- 2316
	Paper Title:	Instinctive Behavior of Replacing Large Percentage of Carbon with Banana Fiber	
392	Authors:	Ranjan Kumar H S, Ganesh Aithal, Surendra Shetty	2317- 2328
	Paper Title:	Multicast Communication Using Different Group Key Managements	
393	Authors:	M.M.M. Aminuddin, N.H.H.M. Tarmizi	2329- 2332
	Paper Title:	Automatic Vibration Device for Stroke Patients	
394	Authors:	G B G Tilak, <mark>Sarat K Kotamra</mark> ju, B T P <mark>Madhav, Ch Sri Kavya, M. Ven</mark> kateswara Rao	2333- 2337
	Paper Title:	Broken Heart Shaped Monopole Antenna for WiMAX Applications	
395	Authors:	S.Sathees Kumar	2338- 2342
	Paper Title:	Mechanical And Water Absorption Properties of Madar And Bauhinia Racemosa Natural Fiber Composites	
396	Autho <mark>rs:</mark>	Vimal S, Srivatsa S K	2343- 2346
	Paper Title:	Reputation and Security Based File Sharing Model using P2P Networks	
397	Authors:	Duc Hau Nguyen, Sylvain Guillou, Le Thi Thu Hien, Quang Hung Nguyen	2347- 2353
	Paper Title:	Proper Orthogonal Decomposition of a Very High Concentrated Release of Sediment in Water: Spatio Temporal Patterns	2000
398	Authors:	Deepa. G, Praba. B, Chandrasekaran. V.M, Rajakumar. Ks	2354- 2359
	Paper Title:	Bounds For The Real And Complex Eigen Values Of Energy Of The Dominating Intuitionistic Fuzzy Graph	2333
399	Authors:	R. Saikumar, D. Napoleon	2360- 2365
	Paper Title:	An Efficient Watermarking and Key Generation Technique Using DWT Algorithm in Three-Dimensional Image	2303
400	Authors:	Saroj Yadav, Kumari Ambe Verma, Mukul Ray, Krishna Murari Pandey	2366- 2374
	Paper Title:	Thermal Analysis of Semi-Circular Pin Fins for Application in Electronics Cooling	2371
401	Authors:	Jayasanthi M, Kowsalyadevi AK	2375- 2379
	Paper Title:	Low Power Implementation of Linear Feedback Shift Registers	
402	Authors:	Ashok Kumar Jalasutram, B. Kiran Babu, Ch.Venkata Krishna, Ramakrishna Mekala	2380- 2386
	Paper	Combustion Phenomena, Emissions and Performance Characteristics of Lemongrass	

	Title:	Oil in Direct Injection (DI) Compression Ignition Diesel	
403	Authors:	Harish S R, Satheesha Kumar K, Naveenakrishna P V, Naveen S P	2387- 2390
	Paper Title:	Development of Multi use Refrigeration System	
404	Authors:	Maushumi Lahon, Uzzal Sharma	2391- 2397
	Paper Title:	Complexity Assessment based on UML-Activity Diagram	
405	Authors:	Pretty Bhalla, Afroze Nazneen	2398- 2400
	Paper Title:	Stress Coping Strategies of Chronic Drug/Alcohol Users: A Case of Rural India	
406	Authors:	A. Mari Kirthi <mark>ma, Rishabh Verma, Ch</mark> inm <mark>ayi R</mark> ajas <mark>hekar Hegd</mark> e, Arundhati S Shanbhag	2401- 2405
	Paper Title:	Intelligent Accident Prevention in VANETs	
407	Authors:	Najeemulla Baig, Fazal Noorbasha	2406- 2410
	Paper Title:	Ultra-Wide Band LNA Design using Active Inductor with Modified Noise Cancellation Technique	
408	Autho <mark>rs:</mark>	M.Rambabu Naik, Shaik Khamuruddeen, T. Venkatrao	2411- 2414
	Paper Title:	Autonomous Gas Detection using UAV with GPS Tracking System	
409	Authors:	Umesh Dutta, M. K Soni, Manisha Pattanaik	2415- 2420
	Paper Title:	Design and Analysis of Gate All Around Tunnel FET based Ring Oscillator Circuit	
410	Authors:	Swarnangini Sinha, Kanak Saxena, Nisheeth Joshi	2421- 2428
	Paper Title:	Sentiment Analysis of Facebook Posts using Hybrid Method	
411	Authors:	R. S <mark>enthil Kumar, K. Arulan</mark> andam	2429- 2433
	Paper Title:	To Identify the Improvement Pattern of Self-financing Arts and Science College Student's Academic Performance using Classification Algorithms	
412	Authors:	Hare Krishna Kumar, V.K. Tomar	2434- 2438
	Paper Title:	Stability analysis of Sub-threshold 6T SRAM cell at 45 nm for IoT application	
413	Authors:	Anjali Sharwan, P.T. Nimbalkar	2439- 2446
	Paper Title:	Effects on Scour for Different Foundation Geometry of Compound Circular Bridge Piers	
414	Authors:	Ahamad Zaki Mohamed Noor, Muhammad Hafidz Fazli Md Fauadi, Fairul Azni Jafar, Muhamad Husaini Abu Bakar	2447- 2453
	Paper	Optimal Number of Hidden Neuron Identification for Sustainable Manufacturing	

	Title:	Application	
415	Authors:	Venkataramana Datti, P.V.Sridevi	2454- 2458
	Paper Title:	Low Power High Speed Ternary Content Addressable Memory	
416	Authors:	Renu Kumari, Vinod Kr. Saroha, Sanjeev Rana	2459- 2462
	Paper Title:	Enhancement of Security and Energy Efficiency in Cloud Computing	
417	Authors:	Shidha M V, T Mahalekshmi <mark>, Sabu M K</mark>	2463- 2468
	Paper Title:	CoGBUS- Center of Gravity based under Sampling Method for Imbalanced Data Classification Ilyas Khudhair Dubi, Ghiath Mageb Waheeb, Saif Ahmed Jabbar, Hasimi	
418	Authors:	Sallehuddi <mark>n, Nurhizam Safie Mohd Satar, Farashazillah Yah</mark> ya, Nur Azaliah Abu Bakar	2469- 2474
	Paper Title:	System for Rogue VolP Phone Detection and Managing VolP Phone Mobility	
419	Authors:	Mohammad Shabaz, Urvashi Garg	2475- 2477
	Paper Title:	Evaluation and Categorization of Handwriting Patterns reflecting Sentiments	
420	Autho <mark>rs:</mark>	S K Kamane, N K Patil, B R Patagundi	2478- 2484
	Paper Title:	Flexural Behavior of Artificially Degraded Steel I Section Externally Bonded With GFRP, BFRP&CFRP	
421	Authors:	Saisugun dontha, Dattatray Chavan, Shivprakash Barve, Sanjay Rumde, Kishore Chokkakula	2485- 2489
	Paper Title:	Design and Analysis of Air-Cooled Fin and Tube Heat Exchanger with Smaller Diameter Micro Finned Tubes using R32 in Replacement of R410A	
422	Authors:	S. Nachiyappan, Justus S	2490- 2494
	Paper Title:	A Big Data Framework for Quality Assurance and Validation	
423	Authors:	Alexander Alexandrovich Fedorov, Galina Alexandrovna Paputkova, Irina Fedorovna Filchenkova, Elena Yuryevna Ilaltdinova, Marina Igorevna Klyueva	2495- 2498
	Paper Title:	Open Digital Education Space: Classification of E-Services at University	
424	Authors:	Antony P. J, Prajna M. R, Jnanesh N. A.	2499- 2505
	Paper Title:	Prediction of Core Shear Strength in Sandwich Composites using Deep Learning and Support Vector Regression	
425	Authors:	Bhagya H.K,Keshaveni N	2506- 2511
	Paper Title:	Video Enhancement using Histogram Equalization with JND Model	
426	Authors:	Ganesan P, M. Vadivel, V. G. Sivakumar	2512- 2515

	Paper Title:	Synthetic Fiber Image Segmentation using a Cooperative System of Local Hill Climbing Optimization and K-Means Clustering	
427	Authors:	Anil Kumar K. M, Ajay B, Shashank R, Amogha Subramanya D. A	2516- 2521
	Paper Title:	An Apriori Method for Topic Extraction from Text Files	
428	Authors:	P. Sunitha, K. Satya Prasad	2522- 2528
	Paper Title:	Multi Band Spectral Subtraction Combined with Adaptive Noise Estimation	
429	Authors:	B. Anitha Reddy, B. Harish <mark>Babu, G. Chitti Babu,</mark> B. Chandrakala	2529- 2533
	Paper Title:	Development of A Process for Predicting the Overall Heat Transfer Coefficient for Transient Heat Transfer in An Exhaust System using CFD	
430	Authors:	Prasanna <mark>Shetty</mark> , B <mark>Prakash Rao</mark>	2534- 2541
	Paper Title:	Importance of Lean Concepts and its Need in Construction Projects	
431	Authors:	Aranga Arivarasan, M. Karthikeyan,	2542- 2549
	Paper Title:	Data Mining K-Means Document Clustering using TFIDF and Word Frequency Count	
432	Autho <mark>rs:</mark>	K. B. Anusha, T. PanduRanga Vital, K. Sangeeta	2550- 2563
	Paper Title:	Machine Learning Models and Neural Network Techniques for Predicting Uddanam CKD	
433	Authors:	Charu Panwar, Anshu Arora	2564- 2568
	Paper Title:	Impact of Fake News on Readers' Usage Behaviour for News Items on Facebook and Twitter	
434	Authors:	Neha Patil, V. R. Udupi	2569- 2573
	Paper Title:	Development of Algorithm for Optimally Weighted Non-Iterative Bilateral Filter (OW-NI-BF) to Eliminate Gaussian Noise	
435	Authors:	Rizwan Khan, Vinod Kumar Sonthwal	2574- 2578
	Paper Title:	Soil Stabilization using Brick Kiln Dust and waste Coir Fibre	
436	Authors:	Shehdeh Ghannam	2579- 2582
	Paper Title:	The Influence of Straw and Plastic Fibers on Behavior and Strength of Concrete Mix	
437	Authors:	Aslesha Bodavula, Ugur Guven, Rajesh Yadav	2583- 2588
	Paper Title:	Numerical Analysis of Protrusion Effect over an Airfoil at Reynolds Number -105	
438	Authors:	Himani Lodwal, Anjulata Yadav, Manish Panchal	2589- 2594

	Paper Title:	A Quality of Service (QoS) Aware Scheduling Algorithm to Boost QoS of Cell-Edge Users in LTE Networks	
439	Authors:	S. Sivaprakasam, K.Balaji	2595- 2599
	Paper Title:	Applications of Sequencing Batch Reactor in the Degradation of Dairy Industry Wastewater	
440	Authors:	Tejas Raval, Ath S Singhalc, Anand Bhatt, Shebaz Memon	2600- 2606
	Paper Title:	Improved Cost-Effective Design of Man-Powered Tricycle/Rickshaw	
441	Authors:	Sabha Samreen, Kiran Mai Cherukuri, Dommati Venkatsai Goud	2607- 2611
	Paper Title:	Predictive Data Analysis to Identify Heart Anomalies	
442	Authors:	Asha R N, Venkatesan S	2612- 2616
	Paper Title:	Data Mining based Intrusion Detection in Wireless Sensor Network	
443	Authors:	O.Nurihan, Y.Aminanda, J.S.M Ali, Z.A. Rasid, Y. Hafizal	2617- 2622
	Paper Title:	The Impact Behaviour of Carbon Fiber-Epoxy Composite Leading Edge using Finite Element Method	
444	Autho <mark>rs:</mark>	Dithy M.D, V KrishnaPriya	2623- 2630
	Paper Title:	Anemia Selection in Pregnant Women by using Random prediction (Rp) Classification Algorithm	
445	Authors:	Sajal Debbarma, Shivaji Debbarma, <mark>Saptadip S</mark> aha	2631- 2637
	Paper Title:	A New Algorithm based Charge Controller for Global MPPT of Si Solar Cell	
446	Authors:	A.VinothKumar, V.Kannarasu, S.Padmapriya, N.Partheeban, S.Arun	2638- 2642
	Paper Title:	Design and Implementation of Autonomous Flower Harvester using Image Processing	
447	Authors:	Vikas <mark>Sharma</mark> , Ana <mark>nd Mohan</mark>	2643- 2649
	Paper Title:	Planing, Structure and Preparation of Cost Effective Sun Oriented Vitality based Electrical Power Framework System at Alakh Prakash Goyal Shimla University, Himachal Pradesh	
448	Authors:	M.Revathi, K.Rama Sudha	2650- 2659
	Paper Title:	Asymmetrical Cascade Multilevel Inverter Design using Modified Level Shift Pulse Width Modulation	2000
449	Authors:	J.Jeyanthi, P.Vincent	2660- 2665
	Paper Title:	Transient Thermal Effect of FRC Incorporated PECC under High Temperature	_000
450	Authors:	Jasmine David.D, Jegathesan.V, Roopa Jayasingh.J, Alvino Rock.C	2666-

			26/0
	Paper Title:	Performance Analysis on Hybrid Wireless Mesh Network Topology using Interference Aware Bandwidth Reservation	
451	Authors:	Jyothi Budida, V. Satyanarayana Murthy, Sreerama Lakshmi Narayana	2671- 2674
	Paper Title:	Null Steering in Linear Arrays for Multiple Null Positions	
452	Authors:	U M Gopal Krishna, Aliya Sultana, T. Narayana Reddy	2675- 2681
	Paper Title:	Perception of Investors towards Risk in Various Investment Avenues	
453	Authors:	G Naveen Kumar, S K <mark>ailash Kumar, G Prashanth</mark>	2682- 2687
	Paper Title:	Strengths of Geo Polymer Concrete by Adding Metakaoline	
454	Authors:	Indu Bala, Anshu Malhotra	2688- 2694
	Paper Title:	Fuzzy Classification with Comprehensive Learning Gravitational Search Algorithm in Breast Tumor Detection	
455	Autho <mark>rs:</mark>	Habibulla Mohammad, A. S. Chandrasekhara Sastry	2695- 2701
	Paper Title:	DSWS- Distributed Sleep/Wake Scheduling Scheme for DEC Protocol in Wireless Sensor Networks	
456	Author <mark>s:</mark>	Monaliza S. Jimenez	2702- 2706
	Paper Title:	Automated Cow Manure Tiles Maker	
457	Authors:	Marco Silvestri	2707- 2713
	Paper Title:	Dynamics Modeling and Optimization of a Wrapper Flow Pack Mechanism	
458	Authors:	P <mark>.S.Prema Kumar, G</mark> . Rambabu	2714- 2717
	Paper Title:	A Six Dimension Service Quality Measurement of Health Care Sectors	
459	Authors:	Nataly <mark>a Gavrilova, Na</mark> talya Chernopolskaya, Maksim Rebezov, Daria Moisejkina, Irina Dol <mark>matova, Irina Mirono</mark> va, Georgy Peshcherov, Olga Gorelik, Marina Derkho	2718- 2722
	Paper Title:	Advanced Biotechnology of Specialized Fermented Milk Products	
460	Authors:	R. A. Deshmukh, Suraj Kore, Namrata Chavan, Sayali Gole, Kumar Adarsh	2723- 2727
	Paper Title:	Marathi Poem Classification using Machine Learning	
461	Authors:	G. Sailaja, V. Hima Deepthi	2728- 2740
	Paper Title:	Facial Expression Recognition Complications with the Stages of Face Detection and Recognition	
462	Authors:	N. Karthikeyan, R. Vadivel	2741-

			2749
	Paper Title:	ABCIP: Artificial Bee Colony Inspired Protocol for Routing in Flying Ad-Hoc Network	
463	Authors:	M. V. Srikanth, V. V. K. D. V. Prasad, K. Satya Prasad	2750- 2759
	Paper Title:	Optimal Threshold based Brain Image Fusion for Brain Cancer Detection using Firefly algorithm	
464	Authors:	Nur Hamezah Abdul Malic, Tengku Adil Tengku Izhar, Mohd Razilan Abdul Kadir	2760- 2766
	Paper Title:	Factors Influencing Fog Computing Adoption based on Quality of Results (QoR) for Heterogeneous Data Analysis: A Proposed Framework	
465	Authors:	Narla Swapna, Peneti <mark>Subhashini, B Padmaja Rani</mark>	2767- 2769
	Paper Title:	Impact of Stemming on Telugu Text Classification	
466	Authors:	M. Karpagam, V. R Balaji, D. Prabha	2770- 2773
	Paper Title:	Optimal Resource Scheduler for LTE A based Networks	
467	Autho <mark>rs:</mark>	Muhammad Suhairi, Moch. Asmawi, James Tangkudung, Achmad Sofyan Hanif, Firmansyah Dlis	2774- 2781
	Paper Title:	Development of SMASH Skills Training Model Volleyball based on Interactive Multimedia	2701
468	Author <mark>s:</mark>	Subhash Waghmare, Nischal Mungle, Chetan Tembhurkar, Sagar Shelare, Nilesh Pathare	2782- 2786
	Paper Title:	Design and Analysis of Power Screw for Manhole Cover Lifter	
469	Authors:	Shaik Abdul Mazeed, R. Sarveswara Reddy, C. Sowbhagya Lakshmi	2787- 2790
	Paper Title:	Bancassurance – A Panacea for Increased Sales: Insurance Companies Perspective	
470	Authors:	Suvarna U, Srinivas Y	2791- 2800
	Paper Title:	A Classified Medical Infertility Dataset using High Utility Item Set Mining	
471	Authors:	Pritesh <mark>Shah, Ravi Se</mark> khar <mark>, Su</mark> dhir Ag <mark>ash</mark> e	2801- 2811
	Paper Title:	Application of Fractional PID Controller to Single and Multi-Variable Non-Minimum Phase Systems	
472	Authors:	Mohit Mittal, Lalit Kumar Saraswat	2812- 2815
	Paper Title:	Energy Evaluation of Sensor Protocol based on AI Techniques using CRAWDAD Data	
473	Authors:	K. Swaraja, K. Meenakshi, Padmavathi Kora, Mamatha Samson, G. Karuna, A. Ushasree	2816- 2820
	Paper Title:	A Secure Architecture of Design for Testability Structures	
474	Authors:	Jayanthi. E, Mohammed Ali Hussain	2821-

			2828
	Paper Title:	Accusation based on Non-Voting Mechanism in MANET using Clusters	
475	Authors:	B. Madhusudhana Reddy, Anand P	2829- 2833
	Paper Title:	Exploration of Special Properties of AL 5056/CNT Metal Matrix Nano-Composites	
476	Authors:	M. Selladevi, T. Lathamaheswari, S. Duraisamy	2834- 2841
	Paper Title:	Artificial Immune System based Improved Secure-Aware Wormhole Attack Detection in MANET	
477	Authors:	Kunyanuth Kularbphettong	2842- 2846
	Paper Title:	Developing the Thai Regional Dialect based on Semi-automatic Technique	
478	Authors:	S.Muthuselvi, A.Rengarajan, S.Scinthiaclarinda, K.Nithya	2847- 2850
	Paper Title:	Applying of a Company's Stock Price Prediction Using Data Mining	
479	Autho <mark>rs:</mark>	Lipika Mahapatra, Sitarm Swain	2851- 2854
	Paper Title:	Spatio-Temporal Epidemiological Analyses of Sickle Cell Disorder of a Tribal Region in Odisha, India	
480	Autho <mark>rs:</mark>	Perla Anitha, P. Sudhakara Reddy, M N Giri Prasad	2855- 2860
	Paper Title:	Rate Distortion Performance of Motion Estimation for High Efficiency Video Coding	
481	Authors:	Vanitha Guda, Y.RamaDevi	2861- 2865
	Paper Title:	Event Extraction and Classification from English Articles	
482	Authors:	R <mark>upam Das, Kuderu B. ShivaKumar</mark>	2866- 2874
	Paper Title:	Headspeak: Morse code based Head Gesture to Speech Conversion using Intel Realsense™ Technology	
483	Authors:	Merin S <mark>alman Raju Koppula, Ravi Kuma</mark> r Red <mark>dy C</mark>	2875- 2881
	Paper Title:	Soil Inter <mark>action of Building Frame Resting on Clayey Soil: Effect of</mark> Change of Aspect Ratio	
484	Authors:	Srinivasan P, Dhandapani Samiappan	2882- 2886
	Paper Title:	Enhancement of Low Voltage Ride through Capability for DFIG based Wind Turbine with STFCL, DVR and Energy Storage System	
485	Authors:	Shweta Sharma, Ashwani Kumar Yadav, Deepak Sinwar, Bhagyashri Naruka, Vaishali	2887- 2893
	Paper Title:	Cross Opposition based Differential Evolution Optimization	
486	Authors:	Ashish Kumar Srivastava, Aditya Goel, Jyoti Srivastava	2894-

			2899
	Paper Title:	Spam Detection and Recovery Model for WSN	
487	Authors:	Suraj D. Shinde, Manojkumar D. Hambarde	2900- 2906
	Paper Title:	Implementation of a Single Effect Absorption LiBr-H2O Refrigeration Chiller by using Thermodynamic Modeling and Steady State Simulation	
488	Authors:	M Ramachandro, Ravi Bhramaramba	2907- 2913
	Paper Title:	Classification of Gene Expression Data Set using Support Vectors Machine with RBF Kernel	
489	Authors:	S.Sindhuja, R.Vadivel	2914- 2919
	Paper Title:	Flexible Particle Swarm Optimization based Routing Protocol to Reduce Energy Consumption in Mobile Ad-Hoc Network	
490	Authors:	Priyan <mark>ka S , D H Yashasvini, Sudha</mark> kar H V	2920- 2925
	Paper Title:	Partially Replacement of Broken Roof Tiles as Coarse Aggregate and Bamboo as Reinforcement in RC Beam	
491	Autho <mark>rs:</mark>	R.Hepziba Gnanamalar , T.Devi	2926- 2930
	Paper Title:	A Novel Algorithm to the Design and Development of Lemon Leaf Fungal Disease Grading and Area Detection in Smartphones using Image Segmentation	
492	Autho <mark>rs:</mark>	K. Krishnaveni, E. Radhamani	2931- 2937
	Paper Title:	Inference of ADHD using Linear Discriminant Feature Analysis of Brain Caudate Nucleus	
493	Authors:	P.Kalpana, P. Tamije Selvy	2938- 2942
	Paper Title:	A Probe on Document Clustering Methodologies and its Performance Metrics	
494	Authors:	S <mark>andeep Chintham,</mark> V. Thirupathi	2943- 2946
	Paper Title:	Energy Efficient Methods for Topology Control Problem of Wireless Sensor Network	
495	Authors:	Saudam <mark>ini Deshmukh, Geeth</mark> a R.Chil <mark>lar</mark> ge	2947- 2951
	Paper Title:	Security and Confidentiality of the Data using Block Level in Health Care System	
496	Authors:	Ramakrishna Goddu, Kiran Kumar Reddi	2952- 2958
	Paper Title:	Teaching-Learning based Task Scheduling Optimization in Cloud Computing Environments	
497	Authors:	Debabrata Swain, Santosh Kumar Pani, Debabala Swain	2959- 2966
	Paper Title:	Diagnosis of Coronary Artery Disease using 1-D Convolutional Neural Network	
498	Authors:	B. Anandhavel, T. Edwin Prabakaran	2967-

			29/1
	Paper Title:	A Learn Of Fuzzy Regression Model and its Applications	
499	Authors:	S. Bala Murali, P. Mallikarujana Rao	2972- 2978
	Paper Title:	Speed Characteristics of Two-Fold Sliding Mode Control of BLDC Motor	
500	Authors:	Bhagyashri Naruka, Ashwini Kumar Yadav, Shweta Sharma, Janesh Singh Rathore	2979- 2987
	Paper Title:	Parameter Tuning Method for Genetic Algorithm using Taguchi Orthogonal Array for Non-linear Multimodal Optimization Problem	
501	Authors:	B.V.Dhandra, Satish kumar Mallappa, Gururaj Mukarambi	2988- 2993
	Paper Title:	Camera-Based Bi-lingual Script Identification at Word Level using SFTA Features	
502	Authors:	Vinayakumar S. Petimani, Vishwanath Awati, Rashmi J.V.	2994- 2999
	Paper Title:	Monitoring the Construction Project by 4D Application of GIS	
503	Autho <mark>rs:</mark>	Baalaji.K, V.Khanna	3000- 3003
	Paper Title:	D2d Big Data Analytics for user Behavior Over Cellular Networks for Improving Content Deliveries	
504	Author <mark>s:</mark>	Ahmed R. Abul'Wafa, Bahaa S. Mahmoud, Aboul'Fotouh A. Mohamed	3004- 3013
	Paper Title:	Analytical Method for Directional Over Current Relays Coordination in Micro Grids	
505	Authors:	Oksana Zybareva, Liudmyla Verbivska, Inna Lopashchuk, Olga Kalaman, Tatyana Derkach Nataliia Smentyna	3014- 3017
	Paper Title:	Strategically-Oriented Enterprise Management through Information Systems	
506	Authors:	A.C.Ashmita, C.Yamini	3018- 3023
	Paper Title:	Cipher Text Policy Attribute based Encryption (Cp-Abe) using Concealed Policy in Public Cloud	
507	Authors:	Navin D <mark>hinnesh ADC, S</mark> abapathi T	3024- 3029
	Paper Title:	Self-Healing and Resilience of Complex Network	
508	Authors:	V. Viswanathan, B. Elango, S. Yugapriya	3030- 3036
	Paper Title:	Authorship Trends in Telemedicine Research	
509	Authors:	Tony Marcel Nisha, P.Jayasudha	3037- 3045
	Paper Title:	Syntactic Analyssis of Spatial Configuration in Indo-Portuguese Houses in Goa	
510	Authors:	Ghulam Akbar, Mahnoor Mughal, Syed Sabir Hussain Shah Bukhair	3046-

			3052
	Paper Title:	MATLAB /Simulink Modelings and Experimental Design of Variable Frequency Drive for Speed Control of Three-Phase Induction Motor	
511	Authors:	K.K.Deepika, J. Vijaya Kumar, G.Kesava Rao	3053- 3057
	Paper Title:	Time-Domain Simulations of Single-Phase Enhanced PLL for Power Converters under Distorted Grid Conditions	
512	Authors:	Lan Huong Nguyen, Quang Hung Nguyen	3058- 3063
	Paper Title:	Application of Reliability Theory in Calculation of Safety Reservoir	
513	Authors:	Premanand Ghadeka <mark>r, Niket Doke, Sushmita Kaneri, Varsha</mark> Jha	3064- 3070
	Paper Title:	Secure Access Control to IoT Devices using Blockchain	
514	Authors:	M. Sridevi, B. Ravindra Reddy	3071- 3077
	Paper Title:	Stability Analysis of an Epidemic Model with Infected Immigrants and Optimal Vaccination	
515	Autho <mark>rs:</mark>	Sonalika Nayak, Jibendu Kumar Mantri, Prasanta Kumar Swain	3078- 3081
	Paper Title:	Design and Performance Analysis of Rural Aquaculture Ponds using IoT	
516	Autho <mark>rs:</mark>	M.V.Raju, P.V.V.Prasada Rao	3082- 3086
	Paper Title:	Quality Characteristics of Soils for Irrigation Practices at Guntur District Andhra Pradesh, India	
517	Authors:	LakshmiSrinivas Sastra Ummaleti, Ja <mark>mu</mark> na Rani Ganipineni, Sriniv <mark>asa Rao Konu</mark> ru	3087- 3091
	Paper Title:	Impact of Piston Geometry on Diesel Engine Performance, Emissions and Combustion	
518	Authors:	P <mark>ratibha R.Bhise, Son</mark> ali B.Kulkarni, Vipin Y.Borole	3092- 3096
	Paper Title:	Preprocessing and Statistical Analysis of Soil Parameters using Conventional Laboratory Techniques and Non-Imaging Spectral Techniques for Vaijapur Taluka.	
519	Authors:	M. Ariv <mark>ukarasi, A. Antonidoss</mark>	3097- 3102
	Paper Title:	A Cognitive Support for Identifying Phishing Websites using Bi-LSTM and RNN	
520	Authors:	Poonam Agarwal, Chandra Kant Goel	3103- 3106
	Paper Title:	Accretion of A New Bitopology	
521	Authors:	ShubhmDwivedi, S.K. Suman	3107- 3114
	Paper Title:	Quality Assessment of Road Shoulders using Light Weight Deflectometer and Geogauge	
522	Authors:	Gaurav Goyal, Devendra S. Verma	3115-

			3118
	Paper Title:	"Optimization of Plant Layout in Manufacturing Industry"	
523	Authors:	Suhel Ahmad, Alpana Srivastava, Seema Sharma	3119- 3123
	Paper Title:	Decision Rule Induction: Relieving Complexity in Detecting Defection	
524	Authors:	Ashok Kumar Shrivastava, Sanjay Jain	3124- 3130
	Paper Title:	A Robust Technique to Remove Fog from Single Image	
525	Authors:	Jean Effil N, Rajeswari R	3131- 3137
	Paper Title:	Heart Rate Monitoring using Peak Detection in Photoplethysmography Signals of Fingertip Images Captured using Smartphone	
526	Authors:	D. Pr <mark>aveen Kumar, M. Sushanth Babu, P. Pardha Saradhi, M. Gopi Krishn</mark> a	3138- 3142
	Paper Title:	Distributed Coding for OFDM based Cooperative HF Radio Communication System	
527	Autho <mark>rs:</mark>	Marwin Alejo, Cris Paulo Hate	3143- 3150
	Paper Title:	Unconstrained Ear Recognition through Domain Adaptive Deep Learning Models of Convolutional Neural Network	
528	Author <mark>s:</mark>	B. Kiran Kumar, Anilkumar B	3151- 3154
	Paper Title:	Functional Verification and the Physical Design of MIPS Architecture	
529	Authors:	Tushar Jadhav, Avireddy Prithviraj <mark>Reddy,</mark> Pranati Boddupally, Rh <mark>eya Shaajo, Ri</mark> cha Reji	3155- 3161
	Paper Title:	Low Cost Green Retrofit for Office	
530	Authors:	V <mark>arun Prakash. R, Kiruba</mark> karan. G, Dinesh Kumar. D, Vignesh Nainar. A	3162- 3166
	Paper Title:	Resizable Drone Designs: For Maneuvering through Paths of Varying Dimensions	
531	Authors:	A. Geetha, N.P. Subramaniam, R. Gnanadass	3167- 3175
	Paper Title:	Operation of Current-fed Dual Active Bridge DC-DC Converters for Microgrid	
532	Authors:	Vengoti Bhargavi, D.Rajeswara Rao	3176- 3180
	Paper Title:	Vehicle Detection from Images using Deep Fully Convolutional Networks	
533	Authors:	Cesar A. Llorente, Elmer P. Dadios	3181- 3185
534	Paper Title: Authors:	Development and Validation of a Camera-Based Illumination Controller for People Detection, Tracking and Recognition using Computational Intelligence Mohammed Siddique, Debdulal Panda	3186-
	-		

			3193
	Paper Title:	Prediction of Stock Index of Tata Steel using Hybrid Machine Learning based Optimization Techniques	
535	Authors:	P. Karthik, P. Shanthi bala	3194- 3204
	Paper Title:	Design of Dynamic Digest through Polynomial Product for Improved Avalanche Effect on Keyless Hash Function	
536	Authors:	Burra Lakshmi Ramani, Padmaja Poosapati, Praveen Tumuluru, CH. M. H. Saibaba, Mothukuri Radha, K. Prasuna	3205- 3213
	Paper Title:	Deep Learning and Fuzzy Rule-Based Hybrid Fusion Model for Data Classification	
537	Authors:	Julie J, Eniyan S, Sree <mark>ram G, Srinivasa Raghavan M</mark>	3214- 3218
	Paper Title:	Facial Recollection System in Live Stream	
538	Authors:	P. Mohan, G. Vinothkumar, M. Thirulogachandar, B. Manimaran, P. Venkatesan,	3219- 3222
	Paper Title:	Improve the Material Removal Rate of Electrochemical Grinding on Monel 400 Using RSM	
539	Autho <mark>rs:</mark>	Sowmya BJ, Gautam Mundada, Pranav Hegde, Seema S, K G Srinivasa	3223- 3230
	Paper Title:	Data Analytics on Agrometeorological Parameters for Building A Utility System for Farmer Community	
540	Author <mark>s:</mark>	Payal Shrivastava, Chandan Kumar Verma	3231- 3241
	Paper Title:	Prediction of Option Price using Ensemble of Machine Learning Algorithms for Indian Stock Market	
541	Authors:	Rahul Semil, Pratesh Jaiswal	3242- 3250
	Paper Title:	Bearing Fault Diagnosis using Support Vector Machine with Genetic Algorithms based Optimization and K Fold Cross-Validation Method	
542	Authors:	K <mark>. Rajasekhar, B. T. Krishna</mark>	3251- 3255
	Paper Title:	Design of Low Frequency Suitable Fractional Order Differintegrators	
543	Authors:	Santosh <mark>Gopalkrishn</mark> an, P <mark>arth</mark> Aggar <mark>wal, Nehachandra Balabhadra</mark>	3256- 3265
	Paper Title:	Developing Synergies in the Pharmaceutical Sector: M&A Activity post 2005	
544	Authors:	Sudheer Choudari, P. S. V. Ramana Rao, K. Madhava Rao	3266- 3271
	Paper Title:	Modal Behavior Analysis of 220kV Transmission Line Tower using SAP 2000 in Wind Zones I and V	
545	Authors:	Kotrike Swetha, M. Imtiaz Ur Rahaman	3272- 3275
546	Paper Title: Authors:	A Machine Learning Practice on NAS Dataset: Influence of Socioeconomic Factors on Student Performance Gaikwad A. K., S. B. Thakare	3276-
		•	

			3281
	Paper Title:	Genetic Algorithm based Optimized Un-Interrupted Dispatching Schedule for Ready Mix Concrete truck with User friendly Interface on Single window (Single Plant Multi-sites)	
547	Authors:	Nalinee Sophatsathit	3282- 3287
	Paper Title:	Tracing Software Development with UML—A Pragmatic Workflow	
548	Authors:	L. Gowri, K. R. Manjula	3288- 3292
	Paper Title:	Dimensionality Reduction on Cloud Images Based on Various Climate Zones	
549	Authors:	Rakesh G K, Manjunath K C	3293- 3296
	Paper Title:	Feasibility of Greywater Treatment with River Sand and Polypropylene Pall Rings as Filter Media	
550	Authors:	Prasanna kumar I, Rathinakumar V	3297- 3300
	Paper Title:	Assessment of Significant Risk Factors in Different Construction Stages	
551	Autho <mark>rs:</mark>	Reena Hooda, Deepak Dhaka	3301- 3307
	Paper Title:	Applying Bayes' Classification to Predict Conditional Probabilities of a Test Case for Specified Injuries in Biomechanical Judo Combating	
552	Author <mark>s:</mark>	Satien Janpla, Nisanart Tachpetpaiboon, Chaiwat Jewpanich	3308- 3315
	Paper Title:	Development of Automatic Home-Based Fish Farming using the Internet of Things	
553	Authors:	Sandeep kumar Hegde, Rajalaxmi Hegde	3316- 3322
	Paper Title:	Symmetry based Feature Selection with Multi layer Perceptron for the prediction of Chronic Disease	
554	Authors:	Narender, Sona Malhotra	3323- 3327
	Paper Title:	Role of Swarm Intelligence based Algorithms and their Applications for optimization in Software Reliability	
555	Authors:	Jyothi P <mark>N, Susmitha M, Bhara</mark> th Ku <mark>mar</mark> M	3328- 3330
	Paper Title:	Influence of Bio-Oils as Cutting Fluids on Chip Formation and Tool Wear during Drilling Operation of Mild Steel	
556	Authors:	Meha Bansal, Roopali Garg	3331- 3336
	Paper Title:	Modelling of Spectrum Handover Scheme using Particle Swarm Intelligence in Cognitive-radio Networks	
557	Authors:	R. Prameela Devi, N. Prabakaran	3337- 3341
	Paper Title:	Rate Performance and Spectral Efficiency of Non-Orthogonal Multiple Access for 5G Communication	

558	Authors:	Hari kumar Rajaguru, Monish Ramesh, Manoranjith.K	3342- 3346
	Paper Title:	Performance Analysis of Classifiers in Identification of Dry and Wet Spells During the Monsoon Period	
559	Authors:	Hasan AlMujaini, Anas Abudaqa, Mohd Hilmi	3347- 3355
	Paper Title:	The Influencing Factors of Organizational Excellence on Corporate Foresight: Artificial Intelligence as Moderator	
560	Authors:	Uzair Khan, Rizwan A Khan, Naveen Kumar Pandey, Ayush Tyagi	3356- 3361
	Paper Title:	Fresh and Hardened Properties of Hybrid Fibre Reinforced Self Consolidating Concrete Containing Basalt and Polypropylene Fibres	
561	Authors:	Rajiv Vincent, V V <mark>ijayakuma</mark> r	3362- 3365
	Paper Title:	An Enhanced Virtual Reality Method for Diagnosing Autistic Children	
562	Authors:	Gaurav Kawade, Nilesh Korde, Kavita Kalambe, Sunita Rawat, Siddhant Jaiswal	3366- 3371
	Paper Title:	Confidentiality Protecting Hierarchical Concealed Data Aggregation for Wireless Sensor Network using Privacy Homomorphism	
563	Autho <mark>rs:</mark>	Nagarjuna Telagam, Sunita Panda, Nehru Kandasamy, Menakadevi Nanjundan	3372- 3380
	Paper Title:	Smart Sensor Network based Fire Rescue System Design using LabVIEW	
564	Author <mark>s:</mark>	B. Thiyaneswaran, K. Anguraj, R. Kandiban, N. S. Yoganathan, J. Jayanthi	3381- 3387
	Paper Title:	An Imaging based Lung Tissue and Spread Level Detection for Early Detection of Cancer	
565	Authors:	G. Srikanth, G. Madhusudhana Rao	3388- 3393
	Paper Title:	Electrical Drive System Modeling for Real-Time Digital Simulation Applications	
566	Authors:	Ganesh V. Karbhari, Pragya Nema	3394- 3396
	Paper Title:	Digital Control System for Solar Power plant using IoT	
567	Authors:	Padma <mark>Ooha D N V, Prakash Marimuthu</mark> K, Th <mark>enarasu M</mark>	3397- 3400
	Paper Title:	Effect of Speed, Feed and Depth of Cut on Machining Induced Residual Stresses in Aisi 1045 Steel	
568	Authors:	Prianka R R, Celine Kavitha A	3401- 3404
	Paper Title:	Cervical Cell Segmentation from Overlapped Cells using Fuzzy C-Means Clustering	
569	Authors:	Manzamasso Kpelou, Keshav Kishore	3405- 3412
	Paper Title:	Lightweight Security Framework for Data Outsourcing and Storage in Mobile Cloud Computing	

570	Authors:	Shijumon. V, Nalanth. N	3413- 3417
	Paper Title:	Flexural Behaviour of Self Compacting Concrete Beams Modified using Recycled Concrete Waste Aggregates	3417
571	Authors:	Shahruzaman Sulaiman, Azmi Hassan, Muhamad Husaini Abu Bakar, Ahamad Zaki Mohamed Noor	3418- 3422
	Paper Title:	Scalable Synthesis of Aluminium Oxide Nanoparticle for Cost Minimization in Battery Electrode	
572	Authors:	Sabyasachi Dasgupta, Priyadarshani Jain	3423- 3430
	Paper Title:	Exploring Communication Metaphors in Preventive Products: A Critical Discourse Analysis on the Portrayal Trends of Condom Advertisements	
573	Authors:	Partha Sarath <mark>i Subudhi, Krit</mark> higa <mark>S. </mark>	3431- 3443
	Paper Title:	PV and Grid interfaced Plug-in EV Battery Charger operating in P-VG, P-V and V-G Modes	
574	Authors:	N <mark>eha Ga</mark> rg, D <mark>amanpre</mark> et Singh, <mark>Major Sing</mark> h Goraya	3444- 3449
	Paper Title:	VM Selection and Allocation Policy to Optimize VM Migration in Cloud Environment	
575	Autho <mark>rs:</mark>	Mahesh Kumar, S Kaleem Afrough Zaidi, SC Jain and KVSM Krishna	3450- 3459
	Paper Title:	Reliability of Non-Destructive Testing Methods in the Assessment of the Strength of Concrete Columns Reinforced with Two Layers of Transverse Confining Stirrups: Empirical Evidence	
576	Authors:	G V Ganesh, K Srinivasa Rao	3460- 3465
	Paper Title:	Design and Analysis of Series Configuration-Based Mems Switch	
577	Authors:	Diyurman Gea, Harjanto Prabowo, Raymond Kosala, Sutoto	3466- 3470
	Paper Title:	Utilization of Data and Applications to Increase the Services Quality of Hospital Industry Accreditation in Indonesia	
578	Authors:	Kavita Kalambe, Sunita Rawat, Nilesh Korde, Gaurav Kawade	3471- 3475
	Paper Title:	Integrated Cache Scheduling Replacement Algorithm to Reduce Cache Pollution	
579	Authors:	Neha Jain, <mark>Manoj K Jain</mark>	3476- 3482
	Paper Title:	A Design of Intel's IXP Meant for Embedded Systems	
580	Authors:	Sabiya. K, M. Shilpa, S. Appaiah	3483- 3487
	Paper Title:	Scrap Reduction in TMT Reinforced Bar Production by the Application of Lean Techniques	
581	Authors:	Mohammad Arshad, Mohammad Ali Hussain	3488- 3493
	Paper	A Hybrid Model for Detecting DDoS Attacks in Wide Area Networks	

	Title:		
582	Authors:	Naveen kumar B, Kavita Singh	3494- 3498
	Paper Title:	Behaviour on Geopolymer Mortar using Granulated Blast Furnace Slag	
583	Authors:	Venkata Tulasiramu Ponnada, S.V. Naga Srinivasu	3499- 3505
	Paper Title:	Efficient CNN for Lung Cancer Detection	
584	Authors:	Eduardo Rubio, Omar Gutiérrez-Navarro, Ivonne Bazán Trujillo	3506- 3509
	Paper Title:	Design Considerations for Improved Noise Rejection in Surface EMG Systems	
585	Authors:	Sujata Saini, <mark>Vishal Verma</mark>	3510- 3515
	Paper Title:	Japanese Historical Character Recognition using Deep Convolutional Neural Network (DCNN) with Drop Block Regularization	
586	Authors:	S.Uthra, K.Rohini,	3516- 3519
	Paper Title:	An Efficient R-Apriori Algorithm for Frequent Item set Mining in Python	
587	Autho <mark>rs:</mark>	Mitank nikunj kapadia, Pushkaraj D. Sonawane, Arvind marhatta	3520- 3529
	Paper Title:	Experimentation & Analysis of Door Sag for Refrigerator	
588	Authors:	Gandla Nanabala Sreekanth, Shaik.Ruksana	3530- 3540
	Paper Title:	Modelling Early Age Shrinkage of Concrete	
589	Authors:	Pappu Kumar, Anshuman Singh	3541- 3544
	Paper Title:	Groundwater Solute Transport Modeling:Effects of Transport and Fate	
590	Authors:	Geetha, Kiran Kamath	3545- 3551
	Paper Title:	Seismic Performance of a Tall Multi Storey Tower Connected by a large Podium	
591	Authors:	Rekha S, Shilpa R	3552- 3557
	Paper Title:	Sleep Apnea Identification using Ecg and Ppg Signals Involving Neural Network	
592	Authors:	Thangaraj M , Gomathi K.S.	3558- 3562
	Paper Title:	Design and Development of MDOE for Virtual Tourism Management for Elderly People	
593	Authors:	S. G. Mane, V. S. Sohoni, B. M. Patil, L. R. Ranganath, K. H. Barve	3563- 3569
	Paper	Assessment of Efficiency of Array of Wave Energy Converters using Mike21-Bw	

	Title:	Model, Near Bhagvati Bandar	2570
594	Authors:	Nataliia Kuprina, Tetiana Stupnytska, Kateryna Vaskovska, Olga Boyko, Khrystyna Baraniuk, Tetiana Markova	3570- 3575
	Paper Title:	Managing the Competitiveness of the Enterprise in the Context of Transformational Change	
595	Authors:	Hong Son Nguyen, Trung Thanh Pham, Quang Hung Nguyen	3576- 3581
	Paper Title:	Establishment of Stiffness Matrix, Mass Matrix of Tapered Beam with I-Shaped Includesemi-Rigid Connection	
596	Authors:	Ajit kumar S. Shitole, Manoj H. Devare	3582- 3590
	Paper Title:	TPR, PPV and ROC based Performance Measurement and Optimization of Human Face Recognition of IoT Enabled Physical Location Monitoring	
597	Authors:	ChhoteLa <mark>l Prasad Gu</mark> pta <mark>, AnandBihari, Sudha</mark> karTripathi	3591- 3599
	Paper Title:	Human Protein Sequence Classification using Machine Learning and Statistical Classification Techniques	
598	Authors:	A.Shiny Pradeepa, C.Vaithilingam	3600- 3604
	Paper Title:	Voltage Profile Assessment in Distribution Substation using Generalized Regression Neural Network	
599	Autho <mark>rs:</mark>	Silambarasi. P, Kiran L.N.Eranki	3605- 3609
	Paper Title:	Latent Dirichlet Analysis based Opinion Mining of Healthcare Report	
600	Authors:	Muhammad Rashidi Ab Razak, Mohd Norzaidi Mat Nawi, Nur Shahira Shahripul Azeman, Mohd Faudzi Umar	3610- 3613
	Paper Title:	FEA Simulation of Fluidic based Pressure Sensor for Differrent Shaped Membrane	2614
601	Authors:	Hong Son Nguyen, Van Quan Tran, Quang Hung Nguyen	3614- 3619
	Paper Title:	Influence of Anchor Connector Stiffness on Displacement-Internal Force of Steel-Concrete Frame	
602	Authors:	Hong Son Nguyen, Dung Bao Trung Le, Van Quan Tran, Quang Hung Nguyen	3620- 3626
	Paper Title:	The N <mark>ew Method of Analyzing the Continuous Curved Flat Bar Subject to Space Load</mark>	
603	Authors:	Hong Son Nguyen, Van Quan Tran, Quang Hung Nguyen	3627- 3632
	Paper Title:	The Optimal Design Problem of a Flat Steel Frame Structure with Soft Connection to the P - Delta Effect	
604	Authors:	Hong Son Nguyen, Trung Thanh Pham, Quang Hung Nguyen	3633- 3641
	Paper Title:	Building the Stiffness Matrix and Load Vector of the Taper Elements with the I- Section that Considering the Effect of Shear Force and Stiffness of the Connection	
605	Authors:	P. R. Asha, M. S. Vijaya	3642- 3648
	Paper	Affinity Prediction using Mutated Protein-Ligand Docking with Regression	

	Title:	Techniques of SCA	
606	Authors:	Yeremou Tamtsia Aurelien, Samba Aimé Hervé, Nneme Nneme Léandre	3649- 3653
	Paper Title:	Application of Higher Order Sliding Mode Observer and Super Twisting Observer based Super Twisting Control in Hydroelectric Power Plants	
607	Authors:	Ankam Raghavendra Rao, D.V.Raghuram, Y.Mohan Rao	3654- 3657
	Paper Title:	Ultrasonic Velocity & other Related Parameters	2550
608	Authors:	Savita Walia, Krishan Kumar	3658- 3663
	Paper Title:	Calibrating Thresholds based on Trade-Offs Between Detection Accuracy and FPR for Copy Move Forgery Detection	
609	Authors:	Ananthi K, <mark>Priyadharshini R, Arun Kumar P.M, Indirap</mark> riy <mark>adharshin</mark> i J, Jaipraba V	3664- 3668
	Paper Title:	Semiautomatic Hosiery Printing Machine	
610	Authors:	Pranjali V. Gurnule	3669- 3671
	Paper Title:	Economical Smart Agriculture Monitoring System	
611	Autho <mark>rs:</mark>	T K S Rathish Babu, V. Balaji, Anantha Krishna	3672- 3675
	Paper Title:	Software Engineering Techniques for Block chain Technology	
612	Authors:	Ramila Devi Ram Sing, S.Vadivelu	3676- 3681
	Paper Title:	Exploring the Revolution on Jobs and its Overall Challenges in the Field of Engineering and Technology with Statistical Aspects	
613	Authors:	M.Jasmine, P.Satyanarayana, M.N.Giri Prasad	3682- 3684
	Paper Title:	Spatial Regularization and Adaptive Distance Metric Methods through DST for Tumor Segmentation	3331
614	Authors:	Lakshmi Sreenivasa Reddy D, M. Rajini	3685- 3692
	Paper Title:	Luster Sampling to Improve Classifier Accuracy for Numeric Data	3032
615	Authors:	Beshiba Wilson, Julia Punitha Malar Dhas	3693- 3696
	Paper Title:	Denoising in Magnetic Resonance Images using Improved Gaussian Smoothing Technique	3030
616	Authors:	R. Rishickesh, A. Shahina, A. Nayeemulla Khan	3697- 3705
	Paper Title:	Predicting Forest Fires using Supervised and Ensemble Machine Learning Algorithms	3703
617	Authors:	Muhamad Husaini Abu Bakar, Mohamad-Syafiq Mohd-Kamal, Sazali Yaacob	3706- 3712
	Paper	Corrosion Inhibitor Performance of Phenol Derivative using Density Functional	

	Title:	Theory	
618	Authors:	Greeshma K V, Sreekumar K	3713- 3719
	Paper Title:	Hyperparameter Optimization and Regularization on Fashion-MNIST Classification	
619	Authors:	Rudresh. B. Magadum, D.B.Kulkarni	3720- 3725
	Paper Title:	Optimal Placement of Distributed Transformer with STATCOM to Enhance the Efficiency of the Distribution Networks	
620	Authors:	Ayushi Thakur, Shikha A <mark>grawal, Rajeev Pande</mark> y	3726- 3731
	Paper Title:	An Enhanced Intellectual CAPTCHA based on Intrinsic Situation Reaction Turing Test	
621	Authors:	Sivakumar D <mark>, Sureshk</mark> um <mark>ar C</mark>	3732- 3738
	Paper Title:	Time of Development and Fitness Analysis of Modified COCOMOII Model for Software Projects	
622	Authors:	Digvijay Patil, Milind R. Gidde, P.D. Patil	3739- 3744
	Paper Title:	Third Party Evaluation and Remidial Measuers for Rural Water Supply Scheme at Vadoli-Nileshwar	
623	Autho <mark>rs:</mark>	Geethashree A, D J Ravi	3745- 3752
	Paper Title:	Modification of Prosody for Emotion Conversion using Gaussian Regression Model	
624	Authors:	Anuj Goyal, Mukta Sharma, Dapinder Deep Singh	3753- 3755
	Paper Title:	Land Use/Land Cover Change Detection using Geoinformatics in Gurugram District, Haryana, India	
625	Authors:	Kriti Priya Gupta	3756- 3762
	Paper Title:	Artificial Intelligence for Governance in India: Prioritizing the Challenges using Analytic Hierarchy Process (AHP)	
626	Authors:	Nandini Balusu, Narsimha G, Suresh Pabboju	3763- 3769
	Paper Title:	A Particle Swarm and Clonal Selection Algorithm based Channel Assignment Algorithm in MRMC Wireless Mesh Network	0.00
627	Authors:	Ogunleye G.O., Fashoto S.G, Daramola C.Y., Ogundele L.A., Ojewumi T.O., Adewole Timilehin	3770- 3777
	Paper Title:	Development of a Simple Graphical Interface based Software for Machine Learning and Data Visualization	
628	Authors:	Marco Silvestri	3778- 3783
	Paper Title:	Motion Law Assisted Design to Reduce the Vibrational Effect of Controlled Axes in Automated Machines	
629	Authors:	C. Bala Rama Krishna, S. Vishwa Prasad Rao, G. Anusha	3784- 3789
	Paper	Solution Analysis of A 3rd Order Initial Value Problem	

	Title:		
630	Authors:	N.B. Sarsembayeva, D.Zh. Moldagaliyeva, Ya.M. Uzakov, T.B. Abdigaliyeva, A.N. Biltebay	3790- 3794
	Paper Title:	Effects of New Mixed Feed based on Nontraditional Feed Additives on Fatty Acid Profile of Tilapia (Oreochromis Niloticus)	
631	Authors:	K. Aravinda Shilpa, K. RamaSudha	3795- 3799
	Paper Title:	Performance of a Novel Multi Level Inverter based on Modulation Techniques	
632	Authors:	R. Priscilla Joy, J. Dheeba	3800- 3804
	Paper Title:	Scheduling Schemes in Dynamic Multilevel Packet Scheduling in WSN	
633	Authors:	P.C. Nayak, <mark>S. Patel, R.C. Prusty, S. P</mark> anda	3805- 3812
	Paper Title:	MVO-PS Optimized Hybrid FOFPID Controller for Load Frequency Control of an AC Micro-Grid System	
634	Authors:	Sukhjeet Kaur, BK Verma	3813- 3817
	Paper Title:	Research on Privacy Preservation of Big Data Challenges and Real Time Applications	
635	Autho <mark>rs:</mark>	Surbhi, BK Verma	3818- 3822
	Paper Title:	A Sentimental Analysis on Facial Expression Recognition	
636	Authors:	Akshay Karale, Harmeet Khanuja	3823- 3828
	Paper Title:	Implementation of Blockchain Technology in Education System	
637	Authors:	Vasiliy Vladimirovich Tkachenko, Tatyana Viktorovna Lukyanenko, Zhanna Alexandrovna Shadrina	3829- 3833
	Paper Title:	A Set of Economic and Mathematical Models for Assessment of Agricultural Crop Cultivation Technologies	3033
638	Authors:	Irina Anatolievna Kiseleva, Natalia Alekseevna Sadovnikova, Mikhail Vladimirovich Karmanov, Vladimir Ivanovich Kuznetsov, Mikhail Samuilovich Gasparian	3834- 3838
	Paper Title:	Developing the Business Strategy for a Consulting Company	3030
639	Authors:	Prasad. M. Pujar, Harish. H. Kenchannavar, Umakant. P. Kulkarni	3839- 3844
	Paper Title:	Water Quality Assessment and Monitoring for River Malaprabha using the Internet of Things(IoT) system	3011
640	Authors:	Oleg Fedorovich Shakhov, Alexander Urevich Chernov, Olga Valenrievna Kalashnikova, Lola Dodohonovna Sanginova, Mairbek Abuevich Katsiev	3845- 3849
	Paper Title:	Transfer Pricing in International Markets: Problems of Information Support	-
641	Authors:	Ksenia V. Mashkova, Maria Viktorovna Varlen, Sergey Sergeevich Zenin, Anri Lvovich Bartsits, George N. Suvorov	3850- 3855
	Paper	Principles of Correlation Between Self-Regulation and State Legal Regulation of the	

	Title:	Relations Related to Genetic Research: Modern Prospects Svetlana Nikolaevna Polenova, Natalya Anatolyevna Mislavskaya, Lyudmila	3856-
642	Authors:	Viktorovna Sotnikova, Marina Nikolaevna Ermakova	3860
	Paper Title:	Accounting System in Terms of Modern Information Technology	2224
643	Authors:	Suresh Kumar R, Renugadevi M	3861- 3870
	Paper Title:	Differential Evolution Tuned Support Vector Machine for Autistic Spectrum Disorder Diagnosis	
644	Authors:	T.M. Vorozheykina, N.K. Muravitskaya, G.I. Lukyanenko, O.V. Antonova, E.E. Lyalkova, M.M. Basova	3871- 3876
	Paper Title:	Technologies of Corporate Social Responsibility in Accounting and Statistics	2077
645	Authors:	Ye. I. Sanin <mark>a, M.S. Artyukhin</mark> a, <mark>N.G. Dendeberya, A.A. Savadova, I.</mark> V. Nasikan	3877- 3880
	Paper Title:	The Use of Internet Technologies in Teaching Bachelors-Economists Mathematics as a Factor of Students' Professional Growth	
646	Authors:	Marina Georgiyevna Sergeeva	3881- 3884
	Paper Title:	The "Project Management" Program: Technologies for Implementation	
647	Autho <mark>rs:</mark>	U. Mohan Srinivas, E. Srinivasa Reddy	3885- 3889
	Paper Title:	Mining Closed Item sets using Partition based Single Scan Algorithm	
648	Authors:	Shivanjali, Mitushi Singh, Tripti Singh	3890- 3898
	Paper Title:	Competency Mapping: A Strategic Perspective in Employee Retention	
649	Authors:	Pooja M. Bhatt, Amit Ganatra	3899- 3903
	Paper Title:	A Statistical Method for Evaluating Performance of Part of Speech Tagger for Gujarati	
650	Authors:	D. D <mark>. Balsaraf, P. P. Shirpurk</mark> ar, V. M. Sonde, R. R. Gurpude, M. S. Giripunje	3904- 3911
	Paper Title:	Sensitization and Corrosion of 409M Ferritic Stainless Steel by Different Welding Processes	
651	Authors:	M. M. Kamruzzaman	3912- 3919
	Paper Title:	Turbo-Space Time Block Coded and Turbo-Vertical Bell Laboratories Layered Space Time coded Wireless Communication: Which One is better to Use and Under What Circumstances?	
652	Authors:	Ajay Narayan Shukla, Vishal Bharti, M.L. Garg	3920- 3924
	Paper Title:	An Algorithm based on Heap of Binary Search Tree to Solve Graph Coloring Problem	
653	Authors:	Ritvik Iyer, Antara Sharma	3925- 3929

Paper Title:	IoT based Home Automation System with Pattern Recognition	
Authors:	Aishwarya. V, R. Seyezhai, Kaviya. R, Kavitha. C	3930- 3935
Paper Title:	Design, Analysis and Implementation of a Novel Soft-Switched Bridgeless Interleaved Boost PFC Converter	
Authors:	M. N. Admankar, G. K. Patil	3936- 3939
Paper Title:	Estimation of Soil Erosion using USLE and GIS	
Authors:	Iryna Bashynska, Maryna Bal <mark>dzhy, Larysa Ivanchenkov</mark> a, Larysa Skliar, Olena Nikoliuk, Galina Tkac <mark>huk</mark>	3940- 3943
Paper Title:	Game Risk Management Methods for Investment Portfolio Optimization	
Authors:	Anju Bala, Priti	3944- 3948
Paper Title:	Implementation of Hybrid ACO-PSO-GA-DE Algorithm for Mammogram Classification	
Authors:	Siddharth Thapliyal, Poonam Rawat	3949- 3953
Paper Title:	Doctrine of Pleasure in Major Common law Countries: Interpretation & Correlation	
Autho <mark>rs:</mark>	M.G.Suresh, R.Suresh	3954- 3959
Paper Title:	Evaluation of Flexural Properties of Jute Natural Fiber Reinforced Polyurethane Polymer Matrix Composite Material	
Authors:	Kavita Bhosle, Vijaya Musande	3960- 3963
Paper Title:	Evaluation of Deep Learning Convolutional Neural Network for Crop Classification	
Authors:	Dmitry Kuteynikov, Osman Izhaev, Valerian Lebedev, Sergey Zenin	3964- 3971
Paper Title:	Transformation of Public Relations in the Conditions of Technological Revolutions: Technology and Innovation	
Authors:	Dhan <mark>shri B. B</mark> hadk <mark>e, Manoj D. Patil</mark>	3972- 3978
Paper Title:	Operation and Control of a DC Micro-grid with Wind Power Generation and Energy Storage	
Authors:	C.Devanathan, A.SureshBabu, B.Haribabu, E.Shankar	3979- 3983
Paper Title:	Surface Composites Preparation of AL5052 Reinforced with Al2O3 by Friction Stir Processing	
Authors:	Varsha Prasad, S Sandya	3984- 3995
Paper Title:	RHBD Charge Pump PLL based 2.4 GHz Frequency Synthesizer	
Authors:	Lyubov Semenovna Morozova, Vladimir Yuryevich Morozov, Natalia Vladimirovna Havanova, Elena Vladimirovna Litvinova, Marat Venerovich Arifullin, Irina	3996- 4000
	Title: Authors: Paper Title: Authors:	Title: IoT based Home Automation System with Pattern Recognition Authors: Alshwarya. V, R. Seyezhai, Kaviya. R, Kavitha. C Paper Title: Interleaved Boost PFC Converter Authors: M. N. Admankar, G. K. Patil Paper Title: Estimation of Soil Erosion using USLE and GIS Iryna Bashynska, Maryna Baldzhy, Larysa Ivanchenkova, Larysa Skliar, Olena Nikoliuk, Galina Tkachuk Paper Title: Game Risk Management Methods for Investment Portfolio Optimization Authors: Anju Bala, Priti Paper Implementation of Hybrid ACO-PSO-GA-DE Algorithm for Mammogram Classification Authors: Siddharth Thapliyal, Poonam Rawat Paper Doctrine of Pleasure in Major Common law Countries: Interpretation & Correlation Title: Authors: M.G.Suresh, R.Suresh Paper Evaluation of Flexural Properties of Jute Natural Fiber Reinforced Polyurethane Polymer Matrix Composite Material Authors: Kavita Bhosle, Vijaya Musande Paper Title: Dmitry Kuteynikov, Osman Izhaev, Valerian Lebedev, Sergey Zenin Paper Transformation of Public Relations in the Conditions of Technological Revolutions: Technology and Innovation Dhanshri B. Bhadke, Manoj D. Patil Paper Operation and Control of a DC Micro-grid with Wind Power Generation and Energy Storage Authors: C.Devanathan, A.SureshBabu, B.Haribabu, E.Shankar Paper Title: Processing Authors: Varsha Prasad, S Sandya RHBD Charge Pump PLL based 2.4 GHz Frequency Synthesizer Lyubov Semenovna Morozova, Vladimir Yuryevich Morozov, Natalia Vladimirovna

Andreevna Rozhdestvenskaya Improving the Competitiveness of Individual Workforce in the Formation of a Paper Title: Region's Labor Potential 4001-666 Authors: Rafail Asgatovich Nurullin 4004 **Paper** Society 5.0: a Self-Devouring System Title: 4005-667 Authors: A.M. Petrov, E.V. Nikiforova, N.P. Kiseleva, S.N. Grishkina, O.V. Lihtarova 4012 Creation of the Reporting on Sustainable Development of Companies based on Paper Title: Socioeconomic Measurement Statistics 4013-668 Authors: U.Geetalakshmi, M.V.Nageswara Rao 4016 Paper Asic Implementation of 12-Bit Radix-8 Booth Multiplier Title: 4017-669 Authors: Neetu Singh, Vipin Saxena 4030 Numerical Computing of Frequencies for Rectangular and Square Plates with Paper Title: Transcendental Thickness Variation 4031-670 Authors: Shivaji Debbarma, Sajal Debbarma, Saptadip Saha 4036 Paper Design of a Solar Mpp Tracker with Modified Perturb and Observe Method using Title: Arduino Samsuri Abdullah, Muhd Irfan Akhtari, Marzuki Ismail, Ali Najah Ahmed, Wan 4037-671 Authors: Nurdiyana Wan Mansor, Mohammad Fakhratul Ridwan Zulkifli 4042 Paper Spatio-Temporal Analysis of Environmental Noise in Institutional Area Title: 4043-672 Authors: Sunita Rawat 4047 **Paper** Supervised Word Sense Disambiguation using Decision Tree Title: 4048-673 Authors: D. Kothandaraman, M. Sheshikala, K. Seena Naik, Y. Chanti, B. Vijaykumar 4053 Paper Design of an Optimized Multicast Routing Algorithm for Internet of Things Title: 4054-674 Authors: B. Kameswara Rao, A.S.N.Chakravarthy 4059 Paper Optimized AODV Routing Algorithm in MANET for Maximizing the Network Lifetime Title: 4060-675 Authors: Lakshmi Prasanna Kanithi, M. Usha 4064 **Paper** Design of Concentric Circular Antenna for Multiband applications Title: 4065-676 Authors: Nagesh S.B, Chandrashekhar T.K, Banapurmath N.R 4069 **Paper** Effect of Injector Opening Pressures on the Performance of Diesel Engine Fuelled with Acid Oil Methyl Ester Title: Y. Suresh Kumar, N. Seshagiri Rao, B. V. Appa Rao 4070-677 Authors:

			4086
	Paper Title:	Mutualisim between Two Species and a Mortal Predator with Holling Type-II Response Function	
678	Authors:	Svetlana Viktorovna Panasenko, Ibragim Agaevich Ramazanov, Elena Aleksandrovna Mayorova, Alexander Fedorovich Nikishin, Tatyana Ivanovna Uryaseva	4087- 4094
	Paper Title:	Ranking the Russian Regions by the Technological Development of Retail Trade	
679	Authors:	Mihail Nikolaevich Dudin, Elena Anatolievna Reznik, Valery Nikolaevich Alferov, Nataliya Vladimirovna Vysotskaya, Igor Aleksandrovich Moshkin	4095- 4100
	Paper Title:	Modeling of Economic Risks of an Industrial Enterprise using a Tree of Logical Possibilities	
680	Authors:	Anna Bodyako, R <mark>oman Petrovich Bulyga, S.V. Ponomareva</mark> , Tatyana Rogulenko	4101- 4109
	Paper Title:	Determination of Economically Sound Criteria to Assess the Effectiveness of Control Processes	
681	Authors:	Anna Alexandrowna Urasova, Dmitry Arkadevich Balandin, Alexander Nikolaevich Pytkin, Elena Borisovna Kovaleva, Igor Yurevich Zagoruiko	4110- 4122
	Paper Title:	Spatial Development of Rural Territories in Russian Regions: Growth Areas or Desolation Zones?	
682	Autho <mark>rs:</mark>	Vladimir Vladimirovich Nikiforov, Nikolay Petrovich Istomin, Sergey Sergeevich Zenin, Sergey Sergeevich Zaikin, Catherine Ilinichna Suvorova, George N. Suvorov	4123- 4127
	Paper Title:	Practical Importance of Genetic Research Results when Developing an Insurance Product for Personal Insurance: International Experience	
683	Authors:	Irina Vladimirovna Tsarenko, Anna Alexandrowna Urasova, Dmitry Arkadyevich Balandin, Alexander Nikolaevich Pytkin	4128- 4135
	Paper Title:	Regulation of the Spatial Development of Territories based on the Evaluation of Labor Resources in the Region	
684	Authors:	Jasmine Batra, C. Rama Krishna	4136- 4142
	Paper Title:	Ddos Attack Detection and Prevention using Aody Routing Mechanism and Ffbp Neural Network in a Manet	
685	Authors:	Ambar Pertiwiningrum, Agung Setianto, Supriadi, Margaretha Arnita Wuri, Teguh Ari Prabowo	4143- 4147
	Paper Title:	Ma <mark>pping of Resources and Potentia</mark> l Development for Food-Secure Region in East Seram, Maluku Province, Indonesia	
686	Authors:	M. Ask <mark>ari Zakariah, Ratmawa</mark> ti Mala <mark>ka,</mark> Amra <mark>n L</mark> aga, and Ambo Ako	4148- 4151
	Paper Title:	Isolation <mark>and Identification of Lactic Acid Bacteria from Dangke a</mark> White Soft Traditional Cheese from Enrekang Regency	
687	Authors:	Mohd. Tajammul, Rafat Parveen	4152- 4158
	Paper Title:	Two Pass Multidimensional Key Generation and Encryption Algorithm for Data Storage Security in Cloud Computing	
688	Authors:	Deepa P, Anitha D B, Mahesh Rao	4159- 4164
	Paper Title:	Through Hole Component Inspection Monitoring System	
689	Authors:	Nooradilla Abu Hasan, Masa Goto, Kuniaki Miyamoto	4165-

			4169
	Paper Title:	The Web-based Framework of X-Band Polarimetric Radar System	
690	Authors:	M. Sivaraj, R.Sundararajan, V. Karthik	4170- 4175
	Paper Title:	Effect of Influence of Metakaolin and Shredded Plastic Waste on Strength and Durability Properties of M20 Grade Concrete	
691	Authors:	Baireddy Ekanath Reddy, J Praveen, Vinay Kumar A	4176- 4180
	Paper Title:	Implementation of DSP based Voltage Source Inverter (VSI) by using Sinusoidal Pulse Width Modulation Technique	
692	Authors:	Dedi Hermon, Eri <mark>anjoni, Indang Dew</mark> ata, <mark>Aprizon Put</mark> ra, Olivia Oktorie	4181- 4186
	Paper Title:	Liquefaction Vulnerability Analysis as a Coastal Spatial Planning Concept in Pariaman City – Indonesia	
693	Authors:	U. Sridevi, K. Kamaraj	4187- 4194
	Paper Title:	Utility-Aware Enhanced Reliable Opportunistic Routing Protocol for Mobile Adhoc Networks	
694	Autho <mark>rs:</mark>	Abdul Rahman .A, Justus Selwyn	4195- 4199
	Paper Title:	A Conceptual Model for Effectiveness of Knowledge Management Systems	
695	Autho <mark>rs:</mark>	Gajanan Walunjkar, Anne Koteswara Rao	4200- 4204
	Paper Title:	Performance Evaluation of Routing Protocols in Large Size Disaster Scenario	
696	Authors:	Pulkit Sharma, Vishnu G Nair	4205- 4210
	Paper Title:	Tuning of PID Controller using Glowworm Swarm Optimisation on a Satellite Attitude Control Reaction Wheel	
697	Authors:	S <mark>uneetha Eluri, Suma</mark> latha Lingamgunta	4211- 4216
	Paper Title:	Statistical Method for Named Entity Recognition in Telugu, an Indian Language	
698	Authors:	N Kanda <mark>vel, A Kumara</mark> vel	4217- 4219
	Paper Title:	Image Offload Computation Algorithm for Energy Efficiency in Mobile Cloud Computing	
699	Authors:	Utpal Barman, Ridip Dev Choudhury	4220- 4226
	Paper Title:	Bacterial and Virus affected Citrus Leaf Disease Classification using Smartphone and SVM	
700	Authors:	Salman Ali Syed	4227- 4231
	Paper Title:	Self-Directional Packet Sending (SDPS) For Underwater Sensor Networks	5 _
701	Authors:	K.C.Keerthivasan, S.Vivekanandan	4232-

			4238
	Paper Title:	Physio-Chemical and Thermo-Gravimetric Analysis of Prosopis Juliflora and Fibre- Reinforced Plastic for Gasification Process	
702	Authors:	Anjani Kumar Shukla, P R Maiti	4239- 4246
	Paper Title:	Retrofitting and Rehabilitation of Damage Footbridge Over Yamuna River	
703	Authors:	Ambika G. N, Bhanu Pratap Singh, Bhavya Sah, Dishi Tiwari	4247- 4252
	Paper Title:	Air Quality Index Prediction using Linear Regression	
704	Authors:	Nancharaiah Vejendla, R. Ramana Reddy, N. Balaji	4253- 4263
	Paper Title:	Low Voltage Full Swing FinFET Hybrid Full Adder	
705	Authors:	Archana Potnurwar, Shailendra S. Aote, Vrushali Bongirwar	4264- 4268
	Paper Title:	Design of Traffic Volume Forecasting based on Genetic Algorithm	
706	Autho <mark>rs:</mark>	Manoj Kumar Karnena, Vara Saritha	4269- 4278
	Paper Title:	Evaluation of Spatial Variability in Ground Water Quality using Remote Sensing	
707	Author <mark>s:</mark>	A. Harshith, Reji	4279- 4283
	Paper Title:	Exhaled Breath Analysis with a Colorimetric Sensor Array for the Identification and Characterization of Lung Cancer of People from Urban Area	
708	Authors:	Anjali Pawar, Harmeet Khanuja	4284- 4288
	Paper Title:	Implementation of QR Code for Sharing Files	
709	Authors:	V <mark>ijayalakshmi V., Vimal S</mark>	4289- 4293
	Paper Title:	A New Edge Computing based Cloud System for IoT Applications	
710	Authors:	Satish K <mark>umar.T, Vishw</mark> aki <mark>ran,</mark> Preran <mark>De</mark> vaiah	4294- 4297
	Paper Title:	Health Adviser: Social Question and Answer System using Datamining	
711	Authors:	S. Sridhar Raj, S. Vijay Goku	4298- 4301
	Paper Title:	Smart Roadways Ticketing System (SRTS) using RFID tags	
712	Authors:	Tatyana Yuryevna Ksenofontova, Roman Valentinovich Smirnov, Olga Vasilyevna Kadyrova,	4302- 4305
	Paper Title:	Practical Application of Methodologies and Mechanisms of Formation of Regional Innovation Development Strategies	
713	Authors:	Yunus N. Ashinov, Irina R. Tletseruk, Tatiana A. Shcherbatova, Igor V. Shcherbatov,	4306-

		Nadezhda L. Machneva, Denis A. Yurin	4308
	Paper Title:	The Rational use of Agricultural Land in the Takhtamukay sky District, the Republic of Adygea	
714	Authors:	Nataliia Pavlenchyk, Serhii Mekhovych, Oksana Bohoslavets, Yurii Opanashchuk, Viktoriya Hotra, Inna Gayvoronska	4309- 4312
	Paper Title:	Integration of Partial Least Squares Path Modeling for Sustainable Tourism Development	
715	Authors:	M. V. L. N. Raja Rao, T. Sumallika, P.V.M. Raju, V.Alekya	4313- 4318
	Paper Title:	IoT enabled Smart Banking System – A Technological Revolution	
716	Authors:	Hala O. Abayazid	4319- 4327
	Paper Title:	Conceptual Merge of Ecohydrologic Watershed and Sponge City Techniques for Managed Sustainability and Strengthened Adaptive Capacity of Nile Delta Coastal Lakes, Egypt	
717	Authors:	Irina V. Kosorukova, Izolda A. Yagodkina, Maria A. Shuklina, Natalia A. Bondareva, Irina Feodosiyevna Zhuckovskaya	4328- 4337
	Paper Title:	Return, Solvency and Capital Structure of Russian Public and Nonpublic Companies	
718	Autho <mark>rs:</mark>	Hafizullah Shafaq, Milind R. Gidde	4338- 4341
	Paper Title:	Water Resource Issue and Solution in Helmand – Afghanistan	
719	Authors:	Ros Marie C Cleetus, G Josemin Bala	4342- 4346
	Paper Title:	A Planar Antenna Reconfigured in Frequency for Wireless Services	
720	Authors:	Srinu Pyla, K. Padma Raju, N. Balasubrahmanyam	4347- 4353
	Paper Title:	PAPR Performance Analysis of low Complexity SLM for Various Phase Sequences in MIMO-OFDM System	
721	Authors:	Sincy John, Ajit Danti	4354- 4364
	Paper Title:	3D Face Reconstruction Techniques: Passive Methods	
722	Authors:	Bimal Ku <mark>mar, Sanjeev Sinha, Hillol Chak</mark> ravarty	4365- 4373
	Paper Title:	Effect of Nano Iron Oxide on Strength and Durability Characteristics of High Volume Fly Ash Concrete for Pavement Construction	
723	Authors:	Nur Suhaili Mansor, Helmi Zulhaidi Mohd Shafri, Shattri Mansor	4374- 4380
	Paper Title:	A GIS Based Method for Assessing the Association Between Urban Development and Crime Pattern in Sungai Petani, Kedah Malaysia	
724	Authors:	Parag Puranik, Santosh Agrahari, Ashish Panat	4381- 4391
	Paper Title:	Implementation of EEG signals and P-300 Component to estimate Mild Cognitive Impairment (MCI)	

725	Authors:	M.Harikaran, N Balasundaram	4392- 4395
	Paper Title:	Deflection Behaviour of RC Beams using Reshaped Waste Tyre Rubber as Partial Replacement of Coarse Aggregate	
726	Authors:	Somya Tiwari, Neha Gupta	4396- 4399
	Paper Title:	Performance Evaluation of Wind Turbines on the basis of Power Generation	
727	Authors:	Darshan Anil Sansare, Sumedh Yamaji Mhaske,	4400- 4406
	Paper Title:	Storm water Management of Mumbai city by using Pervious Concrete on GIS based platform	
728	Authors:	A. G. Tejaswini, <mark>M. Ramasek</mark> har <mark>Redd</mark> y	4407- 4412
	Paper Title:	Interlinked Ac-Dc Microgrids by Fuzzy based TieConverters for Autonomous Power Management	
729	Authors: Paper Title:	Ibragim Agaevich Ramazanov, Seifullakh Agaevich Ramazanov, Svetlana Viktorovna Panasenko, Elena Aleksandrovna Mayorova, Alexander Fedorovich Nikishin Prospects for the Development of Online Trade in the Russian Federation in the Context of Globalization and the Information Society Establishment Marina Nikolaevna Vrazhnova, Tatyana Alexandrovna Panteleeva, Nataliya	4413- 4424
730	Autho <mark>rs:</mark>	Vladimirovna Vysotskaya, Maria Vladimirovna Chekadanova, Elena Anatolievna Reznik, Irina Aleksandrovna Freydina	4425- 4429
	Paper Title:	The Economic Security of Companies Within the Petroleum Machine-Building Sector in A Climate of Changing Market Conditions: Modeling Risks Viktor Reutov, Diana Burkaltseva, Elena Vorobyova, Oleg Blazhevich, Aleksandr	
731	Authors:	Betskov, Kilyaskhanov Hizri, Tatyana Bugaeva, Memet Abibullayev, Anastasia Karpova	4430- 4435
	Paper Title:	Methodology for Assessing the Financial and Economic Security of the Agro- Industrial Complex	
732	Authors:	Mihail Nikolaevich Dudin, Oleg Fedorovich Shakhov, Margarita Sergeevna Shakhova, Ekaterina Petrovna Rusakova, Yulia Sergeevna Sizova	4436- 4440
	Paper Title:	Digital Technologies as a Driver of Intellectual Stratification of Human Resources: Socio-Economic Inequality	
733	Authors:	Sharf <mark>uddin Waseem Mohammed, C Madan Kumar, Naras</mark> im <mark>ha Reddy</mark> Soora	4441- 4444
	Paper Title:	A Neural Network Model for Attacker Detection using GRU and Modified Kernel of SVM	
734	Authors:	Mansur Hamitovich Gazeev, Aleksandr Anatol'evich Sil'vanskij, Olga Viktorovna Lenkova, Svetlana Grigorievna Ignatenko	4445- 4448
	Paper Title:	Possibilities for the Use of Alternative Energy to Reduce Power Supply Costs at Far North Fields	1110
735	Authors:	Ludmila Mikhailovna Kalyanova	4449- 4452
	Paper Title:	The Features of the Career Strategies of Technical University Graduates	
736	Authors:	Ichrak Lafram, Siham El Idrissi, Aicha Marrhich, Naoual Berbiche, Jamila El Alami	4453- 4462

	Paper Title:	Data Clustering Optimization using Support Vector Machines	
737	Authors:	Eshetu Tesfaye, Pooja, Rani Astya Eshetu Tesfaye, Pooja, Rani Astya	4463- 4471
	Paper Title:	Intelligent Collaborative Recommender System by Crow Search Algorithm and K-Means algorithm	
738	Authors:	M. Manjutha, P. Subashini, M. Krishnaveni	4472- 4483
	Paper Title:	Vocal Tone Analysis for Identification of Stuttering Levels based on Tamil Syllable	
739	Authors:	Abhaykumar Badchikar <mark>, Vandana Bhat</mark>	4484- 4488
	Paper Title:	Search Engine Optimization with A/B Testing	
740	Authors:	S. Sankar <mark>Ganesh, K. Somasundaram</mark>	4489- 4498
	Paper Title:	A Collaborative Intrusion Detection System for Cognitive Radio Networks with Trust and Reputation Management	
741	Authors:	Ekta Maini, Bondu Venkateswarlu, Arbind Gupta	4499- 4504
	Paper Title:	Determination of Significant Features for Building an Efficient Heart Disease Prediction System	
742	Autho <mark>rs:</mark>	Saripalli Sri Sravya, Kalva Sri Rama Krishna, Pallikonda Sarah Suhasini	4505- 4507
	Paper Title:	Image Classification using Supervised Convolutional Neural Network	
743	Authors:	K.P. Swain, P.S. Das, S.K.Nayak, G. Palai	4508- 4512
	Paper Title:	Vehicular Control System Through VLC: An Application of Monochromatic Optical Filter	
744	Authors:	Mansoor. P, Sandeep Kumar. B. W, Afsar Hussain. G	4513- 4516
	Paper Title:	Microstructure Evaluation of Friction Stir Welded Aluminium Alloy 6063	
745	Authors:	Eppili Jaya, B.T. Krishna	4517- 4523
	Paper Title:	Moving Target Detection in Multichannel SAR Framework using Adaptive Neuro Fuzzy Decisive Technique	
746	Authors:	Lyudmila V. Sotnikova, Svetlana N. Polenova, Nataliya A. Mislavskaya, Alexander M. Petrov, Mariya M. Basova	4524- 4532
	Paper Title:	Sustainable Development, Macro and Micro Level: Russian And Foreign Model	
747	Authors:	U.V. Narayana Rao, K. Srinivasa Rao, A. Dattatreya Kumar, G. Yaswanth Kumar, G. Sridhar Babu	4533- 4538
	Paper Title:	CFD Analysis of Auditorium using Ansys Fluent	.550
748	Authors:	Abdul Manan Koli, Muqeem Ahmed	4539- 4549

	Paper Title:	Exploring the Power of Social Media in Election Predictions	
749	Authors:	K. Harish Kumar, T. Sai Teja, B. Ramesh	4550- 4554
	Paper Title:	Quality Improvement on Properties of Concrete by using Lightweight Aggregates	
750	Authors:	Rajeev Singh, Jitendra Kumar	4555- 4564
	Paper Title:	Wireless LAN based Mobile Attendance System (WL-MAS)	
751	Authors:	Prithviraj Mohanty, Ajit Kumar Nayak	4565- 4574
	Paper Title:	N-Gram Language Model based Continuous Voiced Odia Digit Recognition	
752	Authors:	P. Shruthi, Y. Priyanka	4575- 4578
	Paper Title:	STATCOM based Multilevel Inverter Modelling and Simulation	
753	Authors:	Mallikka Rajalingam, M. Balamurugan	4579- 4583
	Paper Title:	A Chronological Method of Detecting Image based Email	
754	Autho <mark>rs:</mark>	M. Geethalakshmi, S. Tamilselvi	4584- 4590
	Paper Title:	Synchronization of Stochastic Modeling with Square Fuzzy Transition Probability Relational Matrix	
755	Authors:	S. Niveda, B. Vijayalakshmi, C Ram Kumar	4591- 4596
	Paper Title:	Automated Test System for Test and Evaluation of C-Band Transmitter Packages for Geosat Spacecrafts	
756	Authors:	J. Loveline Zeema, D. Francis Xavier Christopher	4597- 4604
	Paper Title:	Whale Behavior based Rule Optimization on Paraconsistent Neutrosophic Classification Model for Prediction of Dyslexia	
757	Authors:	Kenneth C. Karamihan, Ivan Dave F. Agustino, Ronnick Bien B. Bionesta, Ferangelo C. Tuason, Steven Valentino E. Arellano, Phillip Amir M. Esguerra	4605- 4613
	Paper Title:	SBC-Based Cataract Detection System using Deep Convolutional Neural Network with Transfer Learning Algorithm	
758	Authors:	Navale V.B., Mhaske S.Y.	4614- 4621
	Paper Title:	Land use/Land cover Changes in Sangamner City by using Remote Sensing and GIS	.021
759	Authors:	N. Hemarjit Singh, O.P Roy	4622- 4628
	Paper Title:	Effective Sprinkler Irrigation System for Tea Cultivation: WSN Based Design	.020
760	Authors:	Pooja Saharan, Rashmi Mishra, Charvee Garg, Aman Payal	4629- 4636

	Paper Title:	Heart Disease Risk Predictor using Support Vector Machine	
761	Authors:	M.A. Ananiev, S.P. Burlankov, D.M. Melnikova, N.V. Sedova	4637- 4642
	Paper Title:	Forecasting the Main Indicators of Food Security of Russia	
762	Authors:	B.R.Sathishkumar, M.Krishnaprabha, S.Priya, M.Ragavi	4643- 4647
	Paper Title:	Automated Library System using Android based Robot	
763	Authors:	A.V. Nikitin, R.A. Smykov	4648- 4651
	Paper Title:	Enhancing the Econ <mark>omic Mechanism of Poultry Subcomple</mark> x of Regional Agro- industrial Complex in the Conditions of Import Substitution	
764	Authors:	Yevgeniy <mark>a Vladi</mark> mirovna <mark>Kabitova, Svetlana Valentinovna l</mark> udina	4652- 4661
	Paper Title:	Technologies of Managing the Operating Assets	
765	Authors:	Alexey Ivanov, Fares Abu-Abed	4662- 4666
	Paper Title:	Usage of SUMO Computer Modeling Software for Road Traffic Control System Validation	
766	Autho <mark>rs:</mark>	Damir Ravilevich Vakhitov, Tatiana Nikolaevna Grinevetskaya, Yulia Vladimirovna Samovich, Marina Rayhanovna Magdeeva, Lyubov Vasilyevna Gusarova	4667- 4672
	Paper Title:	Climate Change Influenced by Technologies: Legal, Social and Economic Implications	
767	Authors:	Ching Vern LIOW, Darrien Yau Seng MAH, Marlinda Abdul MALEK	4673- 4679
	Paper Title:	Modelling of StormPav Green Pavement System Using Storm Water Management Model and SolidWorks Flow Simulation	
768	Authors:	Yuriy Vorobyov, Diana Burkaltseva, Aleksandr Betskov, Hizri Kilyaskhanov, Elena Vorobyova, Oleg Blazhevich, Elena Smirnova, Irina Kurianova	4680- 4684
	Paper Title:	Investment in Agriculture: Methodology and Assessment	
769	Authors:	I.L. V <mark>orotniko</mark> v, K.A <mark>. Petrov, O.A. Esin, M.Sh. Gutuev, O.</mark> V. Ermolova	4685- 4690
	Paper Title:	Organization for Repair Technology and Maintenance of Agricultural Machinery	
770	Authors:	Dinokumar Kongkham, M Sundararajan	4691- 4695
	Paper Title:	Wideband Cognitive Radio based on Scheduled Sequential Compressed Spectrum Sensing	
771	Authors:	Shines T S, S Ramamoorthy	4696- 4699
	Paper Title:	Quasi-Z-Source Inverter using Space Vector Modulation and Sine PWM Method	
772	Authors:	B Gowri Sankaran, B Karthik, S P Vijayaragavan	4700- 4703

	Paper Title:	Entropy based Estimation Algorithm using Break-up Images to Decrease Loss Compression Ratio	
773	Authors:	B Gowri Sankaran, B Karthik, S P Vijayaragavan	4704- 4707
	Paper Title:	Degeneration of the Images using System Illustrations and Inserted Zero Tree Calculation to Improve Weight Extent	
774	Authors:	V.R.Balaji, M.Karpagam, J.Sathiya Priya	4708- 4712
	Paper Title:	Transform based Speech Enhancement for Auditory Signals based on Iterative Weiner Filtering	
775	Authors:	H. V. Gururaja Rao, Nag <mark>esh Prabhu, R.C. Mala</mark>	4713- 4719
	Paper Title:	Wavelet Transform based Protection of Transmission Lines with Four Quadrant Operation of STATCOM	
776	Authors:	Olga Ig <mark>orevna Pakho</mark> mova	4720- 4727
	Paper Title:	Corporate Structures Development: Performance Evaluation, Technology, Innovations	
777	Authors:	Tatyana Vladimirovna Fomicheva, Valentina Ivanovna Kataeva, Julia Olegovna Sulyagina, Tatyana Anatolyevna Evstratova, Maksim Georgievich Chardymskiy	4728- 4731
	Paper Title:	Digitization of the Population in Russia: Technologies and Levels of Interaction	
778	Autho <mark>rs:</mark>	A. Pateriya, D. Kishan and S.S. Kushwaha	4732- 4737
	Paper Title:	Evolution of the Geotechnical Properties of Fly Ash Stabilized Silty Soil Activated by Graphene Oxide (GO)	
779	Authors:	Arup Kumar Mohanty, Debahuti Mishra	4738- 4748
	Paper Title:	Optimal Prediction of Foreign Exchange Market Exploring the Effect of Water Cycle Algorithm Strategy on Data Segregation	
780	Authors:	S.Vennila Fathima Rani, S. Jayakani , A.David Maxim Gururaj	4749- 4752
	Paper Title:	Impact Of Social Media in Education Among the Engineering Graduates with Special Reference to Chennai City	
781	Authors:	E. Lax <mark>mi Lydi</mark> a, B. P <mark>RA</mark> SAD, Gogineni HimaBindu, K.Shankar, K.Vijaya Kumar	4753- 4756
	Paper Title:	Parallel Computation Performingkernel-Based Clustering Algorithm Using Particle Swarm Optimization For The Big Data Analytics	
782	Authors:	S. Aarathi, S. Vasundra	4757- 4762
	Paper Title:	Impact of Healthcare Predictions with Big Data Analytics and Cognitive Computing Techniques	
783	Authors:	T.Ragunthar, S.Selvakumar	4763- 4769
	Paper Title:	Classification of Gene Expression Data with Optimized Feature Selection	
784	Authors:	Santoshi Pote, B.K. Lande	4770- 4774

	Paper Title:	The Arithmetic Of elliptic Curve for Prime Curve Secp-384r1 Using One Variable Polynomial Division for Security of Transport Layer Protocol	
785	Authors:	K. C. Kullayappa Naik, Ch. Balaswamy, P. Ramana Reddy	4775- 4778
	Paper Title:	Performance of AODV and OLSR Protocols with Different Mobility Models	
786	Authors:	Shivanand, Shravankumar B. Kerur	4779- 4788
	Paper Title:	Exploration of Hybrid Materials for a Propeller Shaft in Aerospace Applications	
787	Authors:	Siddhartha B S, Sunil Ku <mark>mar B R, Arpitha K, Shw</mark> etha S N	4789- 4794
	Paper Title:	Routing Protocol using Fuzzy Logic for Vehicular Ad-Hoc Networks	
788	Authors:	Mohd Norz <mark>aidi Mat Nawi, Nur Shahira Shahripul Azeman, Muha</mark> mmad Rashidi Ab Razak	4795- 4799
	Paper Title:	The Effect of Sensor Structure and Coplanar Electrode for Capacitive Based Flow Sensor	
789	Authors:	M. Shyamala Devi, Rincy Merlin Mathew, R. Suguna	4800- 4807
	Paper Title:	Feature Snatching and Performance Assessment for Connoting the Admittance Likelihood of student using Principal Component Reduction	
790	Autho <mark>rs:</mark>	B. Hema Kumari, V. Surya Narayana Reddy	4808- 4811
	Paper Title:	Data Synthesis and Importance of Big Data Security Analytics for Securing the Enterprise Data	
791	Authors:	Sumita Choudhary, Prinima Gupta, Felix Musau	4812- 4819
	Paper Title:	Collaborating Data Mining Modeling with Big Data Analytics for Disaster Prediction	
792	Authors:	Kapil Sharma, Sandeep Tayal	4820- 4832
	Paper Title:	Indian Smart City Ranking Model	4000
793	Authors:	K Ven <mark>katesw</mark> ara Rao	4833- 4837
	Paper Title:	Suicide Prediction on Social Media by Implementing Sentiment Analysis along with Machine Learning	
794	Authors:	Victor Vasilievich Grebenik, Leonid Nikolaevich Miroshnichenko, Stanislav Yurievich Evdokimov, Karine Surenovna Khachaturyan, Sergey Viktorovich Ilkevich	4838- 4841
	Paper Title:	Technologies of Management of Financial Result of Enterprise in Modern Conditions	
795	Authors:	Gilang Prasetyo Utomo, M. Munadi, Mohammad Tauviqirrahman	4842- 4846
	Paper Title:	Design and Development of Broiler Feeding System for Chicken Model Closed- House System	
796	Authors:	Meenal Sharma, V. K. Srivastava	4847- 4850

	Paper Title:	Bio-Compost Influences Salinity and Plant Development by Experimenting with Greenhouse Pots	
797	Authors:	E. F. Nikitskaya, V. A. Rusanovskiy, M. A. Valishvili, A. A. Gretchenko, O. G. Demenko	4851- 4859
	Paper Title:	Agglomeration Effects in Spatial Development of Russia's Regions	
798	Authors:	K. Vijaya Prasad, P. V. V. Kishore, O. Srinivasa Rao	4860- 4867
	Paper Title:	Skeleton based View Invariant Human Action Recognition using Convolutional Neural Networks	
799	Authors:	Dhara H. Buch, Haresh S. Bhatt	4868- 4873
	Paper Title:	Cross-VM Branch Prediction Analysis Attack: Scope Assessment and Simulation	
800	Authors:	Anantha <mark>Kavya</mark> Su <mark>pri</mark> ya, <mark>Ravi Kumar Reddy C</mark>	4874- 4879
	Paper Title:	Soil Interaction of Building Frame Resting on Clayey Soil: Effect of Change of Footing Size	
801	Authors:	T. A. Atmojo, H. Prabowo, I. G. So, S. B. Abdinagoro	4880- 4886
	Paper Title:	Improving Information Security Performance: The Role of Management Support and Security Operation Center	
802	Autho <mark>rs:</mark>	Pradeepa R, Pushpalatha M	4887- 4894
	Paper Title:	Artificial Neural Network (ANN) Based DDoS Attack Detection Model on Software Defined Networking (SDN)	
803	Authors:	Siba Prasad Mishra, Kumar Charan Sethi, Durga Prasad Mishra, Mohammed Siddique	4895- 4908
	Paper Title:	Pre-Monsoon Cyclogenesis Over Bay of Bengal	
804	Authors:	Nataliia Kuprina, Tetiana Stupnytska, Kateryna Vaskovska, Olga Boyko, Khrystyna Baraniuk, Tetiana Markova	4909- 4914
	Paper Title:	Managing the Competitiveness of the Enterprise in the Context of Transformational Change	
805	Authors:	Nibedan Panda, Santosh Kumar Majhi	4915- 4927
	Paper Title:	How Effective is Spotted Hyena Optimizer for Training Multilayer Perceptrons	
806	Authors:	Om Prakash Jena, Sateesh Kumar Pradhan, Pradyut Kumar Biswal, Alok Ranjan Tripathy	4928- 4937
	Paper Title:	Odia Characters and Numerals Recognition using Hopfield Neural Network Based on Zoning Feature	
807	Authors:	E.Hemapriya, S.Ramchandran	4938- 4942
	Paper Title:	Impact of Quality Work Life in Employee Satisfaction among Women it Employees in Chennai	
808	Authors:	Nandhakumar, S.Praveen Kumar	4943- 4944

	Paper Title:	A Research on Performance Appraisal	
809	Authors:	G. Kavitha, Y. Mohamed Shuaib	4945- 4949
	Paper Title:	Fuzzy Logic Controlled AC to AC Converter FED Three Phase P.M.S.M Drive	
810	Authors:	Prajith Prabhakar, Antony Charles	4950- 4955
	Paper Title:	Predictive Based Dstatcom and UPQC for Power Quality Advancement in Microgrids	
811	Authors:	Priyaranjan Mallick, Kamalakanta Muduli, Jitendra Narayan Biswal, John Pumwa, Peter Oyekola	4956- 4961
	Paper Title:	Development of a Suitable Plant Layout using Computerised Relative Allocation of Facility Techniques	
812	Authors:	Ashok Ku <mark>mar Nanda, V. Sankiran, Vindya Gandam, L</mark> alit Kumar Awasthi	4962- 4968
	Paper Title:	ECDSA Security Protocol for WSBNs	
813	Authors:	B. Bhaskara Rama Sarma, V. Vasanta Kumar, S.V.N.L. Lalitha	4969- 4971
	Paper Title:	Estimation of Parameters in Erlang Distribution using Prior Information	
814	Autho <mark>rs:</mark>	N. Veeraiah, B. T. Krishna	4972- 4976
	Paper Title:	A Fuzzy Clustering with Optimized Cluster Head Selection Method in MANET	
815	Authors:	V. Murugesh, N. Balasundaram	4977- 4979
	Paper Title:	Bonding Characteristics of water Hyacinth ash on Concrete by replacing cement	
816	Authors:	K. Meenatchi Somasundari	4980- 4983
	Paper Title:	Effect of Stress on Online Food Delivery Executives in Job Performance	
817	Authors:	P. Ch <mark>andra Babu, B. Venkata Prasanth, P. Sujatha</mark>	4984- 4991
	Paper Title:	Perform <mark>ance Evaluation of M</mark> PPT in <mark>a PVG with conventional and I</mark> ntelligent Controllers under STC and DTC	
818	Authors:	Pawan Kumar, Meenu Gupta, Vineet Kumar	4992- 4996
	Paper Title:	Parametric Optimization of WEDM Characteristics on Inconel 825 using Desirability Research	
819	Authors:	Subhadra Panda, Gode Sriram Kumar, Padidam Sankeerthana, Bibhudendra Acharya	4997- 5001
	Paper Title:	An Extensive Judgment of Rectangular Microstrip Patch Antenna with Flexible Substrates	
820	Authors:	Shailu Sachan, Pankaj Swarnkar, Savita Nema	5002- 5007

	Paper Title:	Design of Smoothing FOPID Sliding Mode Controlled Robotic Manipulator for RoboticAssisted Surgery	
821	Authors:	Rakesh Chaudhari, Asha Ingle	5008- 5012
	Paper Title:	An Empirical Research on Dissimilar Metal Weld of SA335 P11and SA312 TP304 Formed by Metal Inert Gas (MIG) Welding	
822	Authors:	Somnath Rajaram Koli, Y. V. Hanumantha Rao	5013- 5016
	Paper Title:	Acetylene an Potential Alternative Fuel for Stationary Diesel Engine	
823	Authors:	S. V. Gayetri Devi, C. Na <mark>lini</mark>	5017- 5025
	Paper Title:	A Systematic Judgment to Automated Programming Contracts Generation	
824	Authors:	Arpita Kulkarni, Amulya K J, Radhika A D	5026- 5028
	Paper Title:	A Research For Tracking Overspeeding Vehicles	
825	Authors:	Devika S P, Nisarga K S, Gagana P Rao, Chandini S B, Rajkumar N	5029- 5032
	Paper Title:	A Research on Credit Card Fraudulent Detection System	
826	Autho <mark>rs:</mark>	Vignesh B S, Sufiyan Ahmed, Chandan V, Prashant Kumar Shrivastava	5033- 5037
	Paper Title:	Double Wishbone Suspension System; A Research	
827	Authors:	Rakshata P, Padma H V, Meghana Prakash, and Karthik V	5038- 5040
	Paper Title:	Artificially Intelligent Response based Utility Management System	
828	Authors:	Preeti Singh, Shobha Sharma, Ashish Singh	5041- 5046
	Paper Title:	Deeper Insight of Various Full-Adder Designs with Various Techniques and Technology	
829	Authors:	Ilya Musa Adamu, A.Y Gital, S. Boukari, Ismail Zahraddeen Yakubu	5047- 5051
	Paper Title:	Perform <mark>ance Evaluation of Hy</mark> brid R <mark>ound Robin Algorithm and Mod</mark> ified Round Robin Algorithm in Cloud Computing	
830	Authors:	Vineet Shekher, Surya Deo Choudhary, Pankaj Kumar, Neel Kamal	5052- 5057
	Paper Title:	Design and Implementation of Real Time Integer Order PID Controller for Infrared Heater	
831	Authors:	Ankur Bhardwaj, Sanmukh Kaur, Anand Prakash Shukla, Manoj Kumar Shukla	5058- 5065
	Paper Title:	Effects of various De-Speckling Filters on Brachial Plexus Ultrasound Imaging	
832	Authors:	Anubhav Kumar Prasad, Dharm Raj Singh, Pankaj	5066- 5072

	Paper Title:	A Genetic Method using Hybrid Crossover for Solving Travelling Salesman Problem	
833	Authors:	V. Vijayalakshmi, K. Venkatachalapathy	5073- 5081
	Paper Title:	Deep Neural Network for Multi-Class Prediction of Student Performance in Educational Data	
834	Authors:	Raghvendra Omprkash Singh, Blessy Thankachan	5082- 5087
	Paper Title:	"Analyzing the Effect with Integrated Technique for Feature Selection and Software Defect Prediction"	
835	Authors:	T. Swarnalatha, T. Anuja, <mark>B. V. Ramana Reddy, Ch</mark> . Rami Reddy	5088- 5093
	Paper Title:	Spatial Data Warehousing for Integrated Urban Data Management	
836	Authors:	V.V.S. <mark>Madhuri,</mark> P. <mark>Srivid</mark> yadevi	5094- 5097
	Paper Title:	Energy Monitoring and Routing for Impending Challenges in SMART GRID	
837	Authors:	M.Sivakumar, T.Ranganayaki	5098- 5102
	Paper Title:	Enhanced Power based Jamming Management Method for Mobile Ad Hoc Networks	
838	Autho <mark>rs:</mark>	Vijayakumar. R, Karthikeyan. K	5103- 5110
	Paper Title:	Robust Iris and Fingerprint Biometric Fusion in Multimodal Feature Template Matching	
839	Authors:	Shovita Verma, Rajeev Paulus, Aditi Agrawal, Manvendr	5111- 5116
	Paper Title:	Realistic Model of Mobility based on Location and Route for VANET	
840	Authors:	Shivam Modgil, Davinder Prakash	5117- 5119
	Paper Title:	Performance Analysis of Radio over Fiber Simulation Model using DPSK Modulation Technique	
841	Authors:	Sum <mark>ati Patha</mark> k, Ro <mark>hit Raja, Vaibhav Sharma, Srin</mark> ivas <mark>Amb</mark> ala	5120- 5124
	Paper Title:	ICT Utilization and Improving Students Performance in Higher Education	
842	Authors:	Adil Alrammahi, Hind Shaban	5125- 5129
	Paper Title:	Shape Verification Neural Network to Detection Personal Signature	
843	Authors:	P.Poornima, M.S.Nidhya, R.Jayakarthik P.Poornima, M.S.Nidhya, R.Jayakarthik	5130- 5134
	Paper Title:	Reliable Transmission in Wireless Sensor Networks using Greedy Perimeter Stateless Routing Scales Method	
844	Authors:	Praveen Kumar Malik, Madam Singh	5135- 5138

	Paper Title:	Multiple Bandwidth Design of Micro strip Antenna for Future Wireless Communication	
845	Authors:	Alpana Sharma, Venkatadri Marriboyina, Kamlesh Gupta	5139- 5146
	Paper Title:	Design and Implementation of key Generation Algorithm for Secure Image	
846	Authors:	MA Lone	5147- 5151
	Paper Title:	River Vishav Contribution to 2014 Devastating Floods of Kashmir (India)	
847	Authors:	R. Balamurugan, R. Ar <mark>unkumar, G. Prabakaran R.</mark> Balamurugan, R. Arunkumar, G. Prabakaran	5152- 5156
	Paper Title:	Recognition and Location Estimation for Multiple Indoor Static Objects	
848	Authors:	Niranjanamurthy M., Nitin V, Pradeep HG, Sudeshna Chakraborty.	5157- 5162
	Paper Title:	Efficient Implementation of MSM Application using Android for SLN Construction	
849	Authors:	Sanket Bele, Nivedita G. Gogate	5163- 5167
	Paper Title:	Blending & Shortlisting Indicators from Existing Sustainability Rating Systems in Indian Context	0_0,
850	Autho <mark>rs:</mark>	Avando Bastari, Marjono, Moeljadi, Zaenal Fanani	5168- 5174
	Paper Title:	The Relationship Model of Maritime Culture and State Policy Towards National Resilience	
851	Authors:	Sachidananda Padhi, Minaketan Behera, Sisira Kanta Pattnaik, Sa <mark>roj Kumar Sara</mark> ngi	5175- 5180
	Paper Title:	Diamond Thin Film Coating on WC Substrate by HFCVD Method using Different Seeding Powders and Its Characterization	
852	Authors:	Viswanatha V, Venkata Siva Reddy R, Rajeswari	5181- 5186
	Paper Title:	Stability and Dynamic Response of Analog and Digital Control loops of Bidirectional buck-boost Converter for Renewable Energy Applications	
853	Authors:	Bala Kartheek, Smt.G.Prasanthi	5187- 5190
	Paper Title:	Performance Evaluation of VCR System using Hydrocarbon Mixture as a Working Medium with Diffuser and Nozzle	
854	Authors:	Pragya Sinha, Kaza Mrudula, Puneet Singh, Subramanian K.	5191- 5196
	Paper Title:	3-Phase Induction Motor Control using Space Vector and Sinusoidal Pulse Width Modulation Technique	3130
855	Authors:	Thingbaijam Lenin, N. Chandrasekaran	5197- 5201
	Paper Title:	Students' Performance Prediction Modelling using Classification Technique in R	2-01
856	Authors:	S.K. Suman, Pallavi Srivastava, Shaili Vadera	5202- 5211

	Paper Title:	Age and Gender Influences on Consumer Behavior Towards Online Discounts	
857	Authors:	Akroju Sanjay, K. Bhavana Raj	5212- 5216
	Paper Title:	Performance and Persistence of Indian Mutual Fund Industry	
858	Authors:	M. Raju, TrinleyPaldon	5217- 5220
	Paper Title:	A Research on the Stock Market Volatility of BSE and NSE in Indian Economy	
859	Authors:	Adusumilli Ramana Lakshmi, K. Anji Reddy	5221- 5225
	Paper Title:	A Goal-Based Exploratory Search Engine Implementation	
860	Authors:	Y.Saroja, <mark>P.Shi</mark> risha	5226- 5229
	Paper Title:	A Research on Functional Judgement of Soft Union Ring	
861	Authors:	B. Srinivas, G. Sasibhushana Rao	5230- 5235
	Paper Title:	A Hybrid CNN-KNN Model for MRI brain Tumor Classification	
862	Autho <mark>rs:</mark>	D Swapna, A Madhuri, T Sri Lakshmi, S Phani Praveen	5236- 5239
	Paper Title:	An Efficient Distributive Framework for Preserving Data Privacy through Block Chain	
863	Authors:	Peyyala Pramod Kumar, S. Madhu, V. Venkata Subba Rao	5240- 5244
	Paper Title:	Correlation of CLPT and FSDT Responses in CNT/Polymer Composite Beams Under Deflection and Buckling	
864	Authors:	P. Lakshmi Reddy, B.Sreenivasa Reddy, K.Govinda Rajulu	5245- 5250
	Paper Title:	Research on Water based Nano Fluids Effecting Thermal Performance of Heat Pipe	
865	Authors:	Neha <mark>Singhal, Usha Sakthivel, Pethuru Raj</mark>	5251- 5255
	Paper Title:	Efficient Hybrid Research for QoS-Aware Microservice Composition	
866	Authors:	Penta Anil Kumar, Rajeev Sunkara, Veera Punnaiah Manda	5256- 5260
	Paper Title:	MRI Image Reconstruction using Compressive Sensing	
867	Authors:	A. Radha, K.S.N. Murthy	5261- 5265
	Paper Title:	Design of a High Speed and Area Efficient Novel Adder for AES Applications	
868	Authors:	B.Kavitha Rani, K.Srinivas, M.Varaprasad Rao, G.Madhukar	5266- 5270

	Paper Title:	Optimizing Replica Migration in Cloud Data Centers	
869	Authors:	K. Nageswara Rao, B. V. R. Ravi Kumar, M. T. Naik	5271- 5274
	Paper Title:	Experiment on GTAW of AL 6061-T6 Material With SUS 304	
870	Authors:	Sunil Kumar Thota, Tummala Sita Mahalakshmi	5275- 5280
	Paper Title:	A Semantic based Terms Relation Research for Classification in Web Information Mining	
871	Authors:	K.Madhana mohan, K.B <mark>alavikash, S.Harish, M.Jayaba</mark> laji, B.Vignesh	5281- 5284
	Paper Title:	Accident Prevention by Monitoring and Control of Vehicle Tyre Pressure using Wear & Tear and Pressure Sensor	
872	Authors:	Kalagotla. Chenchireddy, V. Jegathesan, L. Ashok Kumar	5285- 5287
	Paper Title:	Design and Simulation of a Single Phase Four Level Neutral Point Clamped Inverter	
873	Authors:	T.Sathies kumar, T.Sheela	5288- 5290
	Paper Title:	Detection of Tumor in Ultrasound Images	
874	Autho <mark>rs:</mark>	Magdalene Peter, S.Fabiyola Kavitha	5291- 5294
	Paper Title:	A Research on Work Life Balance of Employees Aruneshwara Hi-Tech in in Thiruvanamalai	
875	Authors:	V.Devendranath Reddy, S.Fabiyola Kavitha	5295- 5298
	Paper Title:	Apparel Customer Loyalty Determination using Retail Servqual and Store Reputation- A SEM Research	
876	Authors:	T. Rajendra Prasad, K. Rama Krishna, K. V. Sharma	5299- 5305
	Paper Title:	Experimental Testing of Thermo Physical Properties of Novel Water and Glycerol Mixture-Based Silica Nano Fluids	
877	Authors:	Veer <mark>a Lakshm</mark> i S, D <mark>ivya Anusha Naidu, Dumpa Venkateswarlu</mark>	5306- 5310
	Paper Title:	An Experimental Development on Properties of Concrete with GGBS in Addition with Alkaline Solution of Sodium Hydroxide and Sodium Silicate	
878	Authors:	Carlo A. Intila, Bobby D. Gerardo, Ruji P. Medina	5311- 5315
	Paper Title:	Modified Key Generation in RSA Algorithm	
879	Authors:	M Sai Sabitha, L Lakshmi Sudha, Dumpa Venkateswarlu	5316- 5319
	Paper Title:	Experimental Development on Concrete Behavior of M30 Grade by Replacement of Cement with Nylon Crystals	
880	Authors:	G Rambabu, Divya Anusha Naidu, Dumpa Venkateswarlu	5320- 5327

	Paper Title:	Experimental Developments on Corrosion Resistivity of Low Calcium Fly Ash-Based Geopolymer Concrete	
881	Authors:	K S L N S Subrahmanyam, A V N Murthy	5328- 5332
	Paper Title:	Technology on the Banking Industry Operations & Its Impact	
882	Authors:	C.Saravanabhavan, K.Anguraju, M.Kannan, P.Preethi, R.Asokan	5333- 5342
	Paper Title:	Ensuring Efficient Data Storage using Fully Mature Homomorphic Encryption Technique in the Cloud Environment	
883	Authors:	Ravinesh Bhadoriya, Nikhil Saxena	5343- 5347
	Paper Title:	Design of Complementary Metal Oxide Semiconductor Based Three Stage Ring Oscillator on the Basis of Frequency, Leakage Current and Leakage Power with and Without Memristor	
884	Authors:	Subhas Chandra Moi, Pradip Kumar Pal, Asish Bandyopadhyay	5348- 5354
	Paper Title:	Design Optimization of TIG Welding Process for AISI 316L Stainless Steel	
885	Autho <mark>rs:</mark>	Anitha N, Srividya P	5355- 5359
	Paper Title:	Parameter Analysis of CNTFET	
886	Autho <mark>rs:</mark>	Manikanteswar Reddy A, Krishnakumar M, Saravanan R	5360- 5365
	Paper Title:	Microstructure, Hardness and Corrosion Resistance of Surface Modified Ni - Hard 4 Cast Iron with Nitrogen Using Gas Tungsten Arc	
887	Authors:	Siti Noor Najihah Mohd Nasir, Mohammad Kamil Sued, Muhammad Zaimi Zainal Abidin	5366- 5371
	Paper Title:	Optimization of Bobbin Friction Stir Welded 1100 Aluminum Alloys Using Response Surface Methodology	
888	Authors:	Marsiningsih, R. Madhakomala, Kazan Gunawan	5372- 5380
	Paper Title:	Decision Support System Of Performance Appraisal Policy Continuity In The Logistic Staff Of Indonesian Armed Force Using Discrepancy Evaluation Model And Analytical Hierarchy Process	
889	Authors:	Kura Sha <mark>ilaja, Puligadda Veer</mark> eswara <mark>Ku</mark> mar, <mark>Sarvadevabhatla Dur</mark> ga Bhavani	5381- 5389
	Paper Title:	Teaching Learning Based Optimization in Semantic Web of Distributed RDF	
890	Authors:	J.Antony John Prabu, S Britto Ramesh Kumar	5390- 5395
	Paper Title:	Performance of Proposed Architecture for Data Transactions in Cloud using D1FTBC	
891	Authors:	Poonam Thakur, Anita Ganpati	5396- 5400
	Paper Title:	Multi-hop Cluster Based Algorithm for Handover Management in Vehicular Adhoc Networks	

892	Authors:	Apanveer kaur, Amit Doegar	5401- 5405
	Paper Title:	Classification of Mammograms using Various Feature Extraction Methods and Machine Learning	
893	Authors:	Prafulla Bafna, Dhanya Pramod	5406- 5411
	Paper Title:	A Hotel Recommender System using Context Based Clustering	
894	Authors:	Sidharath Seth, Jaspal Singh	5412- 5417
	Paper Title:	Evaluating Profitability of Shooting Star Candlestick Pattern in Indian Stock Market	
895	Authors:	Bhumika Shah, Jy <mark>oti Pareek, Sandip Patel, Vivek Patel</mark>	5418- 5425
	Paper Title:	Database Virtual Laboratory for Guided Learning	
896	Authors:	T.Balasri Sathakarni, B.Leela Kumari	5426- 5428
	Paper Title:	Spectrogram Enhanced Pitch Period Tracking using MWSG Filter in Noisy Environments	
897	Autho <mark>rs:</mark>	B Sridhar Reddy, A. B. Koteswara Rao, G Ranga Janardhana	5429- 5434
	Paper Title:	Modeling and Analysis of Machining Parameters and Responses of Wirecut Electric Discharge Machining of Al2124/SiCp using Response Surface Methodology and Soft Computing Techniques	
898	Authors:	Mukul Kulshrestha, Nagendra Parasad Singh	5435- 5438
	Paper Title:	WHO Sanitary Inspection based Assessment of Contamination Risk in Drinking Water from Community Tubewells with Handpump in Rural India	
899	Authors:	Mohammad Oqail Ahmad, Rafiqul Zaman Khan	5439- 5445
	Paper Title:	Cloud Computing Modeling and Simulation using Cloud Sim Environment	
900	Authors:	Anuj Jain, Surender Kumar, Ashutosh Kharb	5446- 5452
	Paper Title:	COMSOL Multiphysics Simulation of Piezoelectric Sensor for Energy Harvesting from Railway tracks	
901	Authors:	N. Anisha Parveen, V.S. Palaniammal	5453- 5455
	Paper Title:	Dual Career Couples: Role of Technology VS Communication Gap	
902	Authors:	Ryan Joshua Liwag, Kevin Jeff Cepria, Anfernee Rapio, Karlos Leo Castillo, Melvin Cabatuan	5456- 5462
	Paper Title:	Deep Learning-Based Embedded System for Carabao Mango (Mangifera Indica L.) Sorting	
903	Authors:	Sasmita Kumari Nayak, Chandra Sekhar Panda	5463- 5471
	Paper	Multiple Processor Scheduling with Optimum Execution Time and Processor	

	Title:	Utilization Based on the SOSA	
904	Authors:	J.Maruthi Nagendra Prasad, M.Vamsi Krishna	5472- 5474
	Paper Title:	Segmentation of Lung Ct Images using Cascaded Fully Convolutional Neural Networks	
905	Authors:	Anju Khandelwal, Avanish Kumar	5475- 5479
	Paper Title:	Framework and Evolution of Task Orientation using Fuzzy and GA	
906	Authors:	Ranjitha M	5480- 5483
	Paper Title:	Segmentation of Ultrasound Abdominal Images to extract Region of Interest	
907	Authors:	V. Arun, N. Prabaharan	5484- 5490
	Paper Title:	Induction Motor Drive with Trinary DC Source Asymmetrical Inverter	
908	Authors:	Subhasri Vijayakumar, Syed Ibrahim S P	5491- 5494
	Paper Title:	Mining learners' Data to Perceive the Need for German for Academic Purposes	
909	Autho <mark>rs:</mark>	P. Ashok Kumar, Ch. R .Phani Kumar	5495- 5498
	Paper Title:	Evaluation of Electric and Magnetic Fields Distribution and SAR with the Help of Intensity of Time Averaged Electromagnetic Wave	
910	Authors:	Hariharan Shanmugasundaram, Ravindhar N, Sree Ranjhani R	5499- 5504
	Paper Title:	Application Access for Chromatic Colour Detection	
911	Authors:	Aditya Natu, Anuj Badhwar, Vipul Garg, Upasana Biswas, Deepanshu Bansal, Aakash Kumar	5505- 5510
	Paper Title:	Modeling and Development of an Autonomous Underwater Vehicle ARYA for Object Recognition	
912	Authors:	Hemavati Sabu, Meghana Nagori	5511- 5514
	Paper Title:	Sentence Extraction for Machine Comprehension	
913	Authors:	G N S Vaibhav, B S Srikanthan	5515- 5524
	Paper Title:	A Fuzzy Logic-Proportional Resonant Controller Based Coordinated Control Scheme for Standalone Wind Power System with Bess	
914	Authors:	A. Sunitha Nandhini, R. Sujatha, S.Padmavathi, S.Sampeter	5525- 5528
	Paper Title:	Text Recognition with Artificial Neural Networks and Open CV	
915	Authors:	Jagtar Singh, Deepak Kedia	5529- 5536
	Paper	Performance of ZF and CB Precoding Techniques for Large-Scale MU-MIMO System	

	Title:		
916	Authors:	Nurul Azma Zakaria, Muhammad Shamil Saharudin, Robiah Yusof, Zaheera Zainal Abidin	5537- 5542
	Paper Title:	Code Pocket: Development of Interactive Online Learning of STEM's Subject	
917	Authors:	R Arun Kumar, K Sathesh Kumar, T Prasanth, K Balakrishnan	5543- 5547
	Paper Title:	The Feature based Image Stitching Techniques	
918	Authors:	Shaik Ayesha, K. Jithendra Gowd, D. Dharani Lakshmi	5548- 5554
	Paper Title:	Microgrid Stability Enhancement by using Coordination of SFCL, SMES and Distributed Generation Units with Fuzzy Logic Controller	
919	Authors:	T. Shanthi, E. Sakthivel, M. Arunraja	5555- 5564
	Paper Title:	Using Fuzzy Inference System for Interference Mitigation in Cognitive Radio based Heterogeneous Wireless Sensor Network(FIS-CoRHAN)	
920	Authors:	A. Anitha, T. Sridevi	5565- 5572
	Paper Title:	Swarm Intelligence Techniques in Segmenting Human Retinal Vasculature	
921	Autho <mark>rs:</mark>	Sanya Anees	5573- 5577
	Paper Title:	Amplify-and-Forward Based Cascaded RF-UWOC System	
922	Authors:	Dharmendra Kumar Poondla, C Prashanth Sai, M Vijaya Kumar	5578- 5583
	Paper Title:	Improvement of Induction Motor Torque Characteristics by Model Predictive Current Controller	
923	Authors:	Suman Naredla, Sridhar Condoor, Raja Shekar P V	5584- 5588
	Paper Title:	Maker Faire - Promoting Regional Innovation & Entrepreneurial Ecosystem by Empowering Students	3333
924	Authors:	Mitali Sinha	5589- 5593
	Paper Title:	Pair Wise Swapping Based Hypergraph Partitioning Algorithms for VLSI Design	3333
925	Authors:	S. Nagendram, K. Ramchand H Rao	5594- 5597
	Paper Title:	Hybrid Security and Energy Aware Routing for Wireless Ad hoc Networks	3337
926	Authors:	Urmila C. Dhainje, A. G. Kamble	5598- 5603
	Paper Title:	Design Analysis and Performance Evaluation of Heat Pipe Embedded Oil Cooler with Enhanced Staggered Fins	5005
927	Authors:	K.Sharmila Gowd, K.Jithendra Gowd, D.Dharani Lakshmi	5604- 5611
	Paper	Improvement of Power Quality in Multi-Terminal Hybrid Ac/Dc Microgrid by using	

	ritie:	Fuzzy Logic Controller	
928	Authors:	Gauri Suresh Dabhade, Milind .P. Gajare	5612- 5615
	Paper Title:	IOT Based Wireless Safety System for Monitoring the Physiological and Environmental Variables of Mine Workers.	
929	Authors:	P.A. Thakare, N. Kumar, V.B. Ugale	5616- 5621
	Paper Title:	Thermal Behaviour of Hybrid Composites Reinforced with Natural Fibers and Kevlar	
930	Authors:	Arun Kumar Rath, Gouri Sankar Nayak, R.K.Jena	5622- 5626
	Paper Title:	Design & Control of Low Cost Solar Tree for Optimizing a PV System	
931	Authors:	Neeru Sidana, Rohit Sood, Ajay Sidana	5627- 5631
	Paper Title:	Technological Insinuation and Value Drivers for Australian Coal through Resource Engineering	
932	Authors:	J. N. S. Surya Narayana Raju, S. Srikanth Reddy, P. Raju, K. Jagadeep	5632- 5635
	Paper Title:	Red Brick Dust as a Partial Substitute to Cement in Conventional Concrete	
933	Autho <mark>rs:</mark>	V. Mohanavel, S. N. Sundar, R. Poongothai, S. Suresh Kumar, V. Sivaraman	5636- 5639
	Paper Title:	Experimental and FEA Evaluation of AA2014/TIC Composites	
934	Authors:	Alireza Bahrami, Mojtaba Yavari	5640- 5645
	Paper Title:	Hysteretic Assessment of Steel-Concrete Composite Shear Walls	
935	Authors:	S. Prince Mary, B. Bharathi, Vigneshwari. S, Sathyabama R	5646- 5649
	Paper Title:	Neural Computation based General Disease Prediction Model	
936	Authors:	J. Ya <mark>sin, M. Saravana Kumar</mark> , C. Madasamy Prabu Nivas, R. P <mark>ravin Kum</mark> ar	5650- 5654
	Paper Title:	Influence of Axle Speed and Transverse Speed in Alloys Distribution of Friction Stir Welded Aluminum Alloy 6082	
937	Authors:	Won Jin Chung, Tae Ho Cho	5655- 5661
	Paper Title:	A Security Key Management Method using Grid Routing for EDDK in WSNs	
938	Authors:	Ramesh Medar, Vijay S. Rajpurohit	5662- 5668
	Paper Title:	Supervised Machine Learning Techniques for Predicting Sugarcane Yield	
939	Authors:	Saurabh Kumar, Bharti Dwivedi	5669- 5675
	Paper	A Novel Zero-Sum Polymatrix Game Theory Bidding Strategy for Power Supply	

	Title:	Market	
940	Authors:	MD Ikramullah Khan, Bhavani Challa, S. Haripriya Varma, Mohd Abbas Abdy Sayyed	5676- 5681
	Paper Title:	Sorptivity and Durability Assessment of Dolomite Impregnated Ternary Concrete	
941	Authors:	Mulugundam Siva Surya, K. S. Vepa, Malleswari Karanam	5682- 5686
	Paper Title:	Optimization of Machining Parameters using ANOVA and Grey Relational Analysis while Turning Aluminium 7075	
942	Authors:	Prashant S. Babar, A. G. Shaligram	5687- 5693
	Paper Title:	Design and Analysis of the Scroll Expander with Next Generation Refrigerant in an ORC	
943	Authors:	Anuja A. Ubale, S. G. Shikalpure	5694- 5697
	Paper Title:	Colon Cancer Biopsy Image Analysis using Deep Learning	
944	Authors:	Luisito L. Lacatan, Miah Dell D. Almero, Jasmine Joy D. Bautista Charmaine Crescini, Marsielle Essen May B. Salgado	5698- 5702
	Paper Title:	Wearable Indoor Tracking Device using Wi-Fi Positioning System with PPG Sensor and Android Application	3702
945	Autho <mark>rs:</mark>	Pratishtha Agnihotri, Monika Jain	5703- 5711
	Paper Title:	Cardiac Health Prediction using Electrocardiography	3711
946	Authors:	Sabih Ahmad, Abdullah Anwar, Bashar S. Mohammed, Mubarak bin Abdul Wahab, Syed Ageel Ahmad	5712- 5718
	Paper Title:	Strength Behavior of Concrete by Partial Replacement of Fine Aggregate with Ceramic Powder	3/16
947	Authors:	Yogini Patil, V. M. Barkade	5719- 5723
	Paper Title:	Video based Face Recognition with limited Resources	3723
948	Authors:	Akanksha Upadhyaya, Vinod Shokeen, Garima Srivastava	5724- 5731
	Paper Title:	Evaluating and Forecasting Rate of Counterfeit Bankote Detection	3731
949	Authors:	Neerja Negi, Satish Chandra	5732- 5738
	Paper Title:	Efficient Selection of QoS Based Web Services using Modified TOPSIS Method	3/36
950	Authors:	Jaruwan Chutrtong	5739- 5742
	Paper Title:	Heavy Metal Degradable Halophilic Bacteria Isolation from Soil in Samut Sakhon, Thailand	J/42
951	Authors:	Safia Gul, Yumi Zuhanis Has-Yun Hashim, Noor Illi Mohamad Puad, Nurhusna Samsudin	5743- 5749
	Paper	Fabrication and Characterization of Plant Mediated Green Zinc Nanoparticles for	3/43

	Title:	Antileishmanial Properties	
952	Authors:	Pushpendra M. Chavan, Sandeep P. Abhang, U. B. Shinde	5750- 5752
	Paper Title:	Dev Ops Intelligent Networking with Automated Deployment in Linux	
953	Authors:	Pratik Ghosh, Ratna Banerjee, Vinay Kandpal, Jacob T. Verghese	5753- 5760
	Paper Title:	Factors and Constraints for implementing a Unified Data Platform for Operational Intelligence and Analysis of the Power Sector	
954	Authors:	Bejay Kumar Yadav, Showmen Saha	5761- 5765
	Paper Title:	Determination of Mechanical Properties of Rubberized Concrete in Marine Environment	
955	Authors:	Md. Rashid <mark>Farooqi, N</mark> aiyar Iqbal	5766- 5774
	Paper Title:	Performance Evaluation for Competency of Bank Telemarketing Prediction using Data Mining Techniques	
956	Authors:	Divya V, Sharon Sophia	5775- 5780
	Paper Title:	Recruiting Investors Sentiment in Forecasting Volatility (An Examination on American Stock Market) Pallavi H. B, Aishwarya Shrikanth, Sandeep S, Sushanth S. P, Hariprasad S. A, Sunil	5781-
957	Authors:	M.P	5786
	Paper Title:	Density based Automatic Traffic Junction Synchronization	
958	Authors:	Oksana Hunchenko	5787- 5790
	Paper Title:	Methodology of Risk-Oriented on the Basis of Safety Function Deployment	
959	Authors:	Nabajyoti Modak, S. Sivasankar	5791- 5798
	Paper Title:	Axial Behavior of Corroded CHST Members Confined with AFRP Sheets	
960	Authors:	Priy <mark>anka, Saurabh Kumar, Amande</mark> ep Kaur	5799- 5805
	Paper Title:	Prevention of Black Hole Attacks in Virtualized Cloud Network using Trust-Aware Energy Efficient AODV Routing with Firefly Based AI Technique	
961	Authors:	M. T. Khojiev, A. Juraev, O. Murodov, A. Rakhimov	5806- 5811
	Paper Title:	Development of Design and Substantiation of The Parameters of the Separator for Fibrous Materials	
962	Authors:	Divya Mohan, Geetha Mary. A	5812- 5823
	Paper Title:	Optimal Features-based Channel Selection and Neural Network Learning for LTE applications	
963	Authors:	Alexander Nikitin, Natalia Kuzicheva, Natalia Karamnova	5824 5829
	Paper	Establishing Efficient Conditions for Agriculture Development	

	Title:		
964	Authors:	Ikram Akkiyat, Nissrine Souissi	5830- 5835
	Paper Title:	Modelling Risk Management Process According to ISO Standard	
965	Authors:	T. Kosaleswara Reddy, T. Devaraju, M. Vijaya Kumar, Y. Paparayudu	5836- 5840
	Paper Title:	Coordination of Over Current Relays in Distributed Generation	
966	Authors:	Bh. Prashanthi, Griet, G. Sowjanya, Griet, D. Krishna Madhuri, Griet	5841- 5845
	Paper Title:	Distributed Computing Engines for Big Data Analytics	
967	Authors:	Mohammad Ahyan Yusuf Sya'bani, Ismi Rajiani	5846- 5850
	Paper Title:	Philosophical Thought of Al-Farabi as Models of Establishing Civil Society in the Era of Technology Disruption	
968	Authors:	D.Sharmila, M.Purnachandra Rao, P.S.V.Subbarao, S Nagakishore Bhavanam	5851- 5859
	Paper Title:	Design, Simulation and Fabrication of Multiband Antenna using HFSS	
969	Autho <mark>rs:</mark>	Kesana Mohana Lakshmi, Tummala Ranga Babu	5860- 5865
	Paper Title:	Telugu Word Image Retrieval using Deep learning Convolutional Neural Networks	
970	Authors:	Thejas Jain K, R Kumar, C Siddaraju	5866- 5868
	Paper Title:	Modelling and Fabrication of Portable E-kit fixtures for Bicycles	
971	Authors:	N.B.Mirzayev, A.S.Rafikov, U.M.Maksudova	5869- 5872
	Paper Title:	Strengthened Layered Polymer-Knitted Films And Coatings	
972	Authors:	Pallam Ravi, Haritha	5873- 5876
	Paper Title:	Two State Counter Bucket: Computation of Average Iceberg Queries	0070
973	Authors:	Sena Mahendra, Soenarto, Herminarto Sofyan, Didik Rohmantoro	5877- 5880
	Paper Title:	The Teacherpreneur Character of Vocational High School Teacher in Indonesia	3000
974	Authors:	Saikumar Tara, R.Nirmala Devi	5881- 5884
	Paper Title:	Radon Transform based Modified Nonlinear Access for Segmentation of Mammogram Application	3001
975	Authors:	E.Hemapriya, S.Ramchandran	5885- 5887
	Paper	Resarch on Quality of Work Life Among Women Employees in it Sector with Respect	2007

	Title:	to Chennai	
976	Authors:	Nakul Sharma, Prasanth Yalla	5888- 5895
	Paper Title:	A Conceptual Dependency Graph Based Keyword Extraction Model for Source Code to API Documentation Mapping	
977	Authors:	Naripireddy Ayyappa Swamy, J Lakshmi Sudha, Dumpa Venkateswarlu	5896- 5899
	Paper Title:	Consequence of Concrete due to Acids	
978	Authors:	Azreen Zainol, M.Z.A. Yazid	5900- 5905
	Paper Title:	Effect of Minimum Quantity Lubrication and Dry Cutting on the Tool Life and Chip Morphology after Milling of Aluminum Alloy 7075-T6	
979	Authors:	Viresh Pa <mark>ndey, Pram</mark> od K <mark>umar Jain, Devendr</mark> a Singh Aj <mark>nar</mark>	5906- 5912
	Paper Title:	Low Glitch & Low Power Dual Edge Triggered DType Flip Flops for Integrated Applications	
980	Authors:	A. Venkatesh, S. Asha	5913- 5918
	Paper Title:	Detecting Denial of Service Attack in Wireless Sensor Network Using Energy Efficient Extreme Learning Neural Network (EEELNN)	
981	Autho <mark>rs:</mark>	Win Win Aye, Hnin Hnin Aye, Chatpet Yossapol, Htay Aung Pyae	5919- 5923
	Paper Title:	Effect Of Alkaline Pre-Treatment On Cassava Pulp For Optimum Biogas Production	
982	Authors:	Mohammed Alhanjouri, Ahmed Alghoul	5924- 5931
	Paper Title:	Integrating Bat Algorithm to Inverse Weighted K-means	
983	Authors:	E. Nikulina, E. Tarasova	5932- 5935
	Paper Title:	Budget Financing Of Investment Projects At The High-Technology Industry Enterprises: Project Implementation Technology And Risk Mitigation	
984	Authors:	V.Prasanth, K.Babulu, M.Kamaraju	5936- 5941
	Paper Title:	Dynamic Power Optimization of 32 Bit MIPS Processor Using Clock Gating For Low Power Applications	
985	Authors:	T.Thilagaraj, N.Sengottaiyan	5942- 5946
	Paper Title:	Implementation of Fuzzy Possibilistic Product Partition C-Means and Modified Fuzzy Possibilistic C-Means Clustering To Pick the Low Performers Using R-Tool	
986	Authors:	Reena Kharat, P. Sanyasi Naidu	5947- 5953
	Paper Title:	Securing Authentication Database of Online Voting System using PIN Based Lossless Image Secret Sharing Scheme	
987	Authors:	P.Venkateswara Rao, Mohammed Ali Hussain	5954- 5959
	Paper	An Efficient Pre and Post Processing Skyline Computational Framework Using	

	Title:	Mapreduce	
988	Authors:	Farizan Md Nor, Fairul Azni Jafar, Chee Kai Sin, Mohd Hadzley Abu Bakar, Ahamad Zaki Mohamed Noor	5960- 5964
	Paper Title:	The Effect Of Automated Coolant System On Surface Roughness During Machining Aluminium Alloy	
989	Authors:	Anjanadevi B, S Naga Kishore Bhavanam, E Srinivasa Reddy	5965- 5968
	Paper Title:	An Efficient Methodology for Object Classification Using Light Weight Deep Convolutional Neural Networks	
990	Authors:	V.Sathya Durga, Thangakumar Jeyaprakash	5969- 5971
	Paper Title:	Effective Feature Selection Strategy Using Manova Test	
991	Authors:	D.Suneet <mark>ha, <mark>D.Rathna</mark> Ki<mark>sho</mark>re, <mark>G.G.S.Pradeep</mark></mark>	5972- 5975
	Paper Title:	Data Security Model Using Artificial Neural Networks and Database Fragmentation in Cloud Environment	
992	Authors:	Chandra Kishor Pandey, Neeraj Kumar, Bineet Kumar Gupta, Vinay Kumar Mishra	5976- 5982
	Paper Title:	An Efficient Algorithm for Roadways Obstacles Detection Using Smartphone in Infrastructure-less Environment	
993	Autho <mark>rs:</mark>	Priyanka B. Barhate, G. D. Upadhye	5983- 5987
	Paper Title:	Classifying Handwritten Digit Recognition Using CNN and PSO	
994	Authors:	Swati Shekapure, Dipti D. Patil	5988- 5991
	Paper Title:	Performance Based Adaptive Personalized eLearning System	
995	Authors:	Naveenkumar, Parag J Deshpande, Ravi Dodamani, Roshan Antony, Girish Prasad	5992- 5995
	Paper Title:	Interaction of Two Micro-Propellers in Coplanar and Coaxial Arrangement for UAV Application	
996	Authors:	Ais <mark>warya Vijayakumar, A S Mahesh</mark>	5996- 6003
	Paper Title:	Quality Assessment of Ground Water in Pre and Post-Monsoon Using Various Classification Technique	
997	Authors:	Tanaya Jadhav, Meghana Nagori	6004- 6007
	Paper Title:	Metagenomic Classification using Centrifuge	
998	Authors:	M. A. Omar, J. Jailani, M. A. Zakaria	6008- 6013
	Paper Title:	Occupant Behaviours And Preferences Toward Comfort Level And Energy Use In Building	6014
999	Authors:	M.Bhargavi, P.Bharath Siva Varma	6014- 6019
	Paper	Privacy Protection For E-Health Records Over Mobile Cloudlet	

	Title:		
1000	Authors:	Elena Vasiljevna Yaluner, Olga Alexandrovna Chesnova, Sergey Anatoljevich Ivanov, Darya Georgievna Mikheeva, Yana Alexandrovna Kalugina	6020- 6025
	Paper Title:	Entrepreneurship Development: Technology, Structure, Innovations	
1001	Authors:	Aamir Yousuf Bhat, A. Suhasini	6026- 6033
	Paper Title:	Normal And Abnormal Detection For Knee Osteoarthritis Using Machine Learning Techniques	
1002	Authors:	Sujitha N., Krithiga S	6034- 6039
	Paper Title:	WECS fed Off-Board EV Battery Charger using Single Stage Converter	
1003	Authors:	A Vijayalaks <mark>hmi, Ebe</mark> nez <mark>er Abishek B, C Arul Stephen</mark>	6040- 6046
	Paper Title:	IoT based Sensor Fusion Algorithm for Online Smart Health Monitoring	
1004	Authors:	Santoshkumar Borkar, Kanaka Muthu, Arunkumar G L, Ashok Kumar K	6047- 6052
	Paper Title:	Fabrication and Experimentation of Diffuser Augmented Wind Turbine	
1005	Autho <mark>rs:</mark>	Kesana Mohana Lakshmi, Tummala Ranga Babu	6053- 6057
	Paper Title:	Efficient Technique for word identification and recognition in Telugu Documents	0007
1006	Authors:	Sailaja Aryavalli, B.Ram Gopal Reddy, G. Venkateswarlu	6058- 6061
	Paper Title:	Influence of Friction Stir Processing Parameters on Mg ZE 41-SiC Surface Composite	
1007	Authors:	Sailaja Aryavalli, B.Ram Gopal Reddy, G. Venkateswarlu	6062- 6066
	Paper Title:	Tool Optimization of Friction Stir Processing of ZE41A Rare Earth Magnesium Alloys	
1008	Authors:	N.V.P.R. Durga Prasad, C. Radhakrishna	6067- 6071
	Paper Title:	Key Performance Index for Overall Substation Performance	0071
1009	Authors:	Ajay Minj, T. Pathinathan	6072- 6079
	Paper Title:	Retreat: Fuzzy Multi-Criteria Decision Making Based on Pros And Cons	0075
1010	Authors:	N. Srinivasa Rao, P.V. Ramana Rao	6080- 6088
	Paper Title:	Power Quality Enhancement in Multi-Feeder Distribution System using Mf-Upqc Device	0000
1011	Authors:	Svetlana Nikolaevna Sayfieva, Oleg Fedorovich Shakhov, Valery Pavlovna Nevmyvako, Mikhail Yuryevich Chernavsky, Nataliya Vladimirovna Vysotskaya	6089- 6094
	Paper	Taxation in the Context of Economic Security: Opportunities and Technologies	5054

	Title:		
1012	Authors:	Geeta S. Joshi, Payal Makhasana	6095- 6099
	Paper Title:	Flood Frequency Analysis in Sabarmati River basin and Estimation of Peak Discharge under Climate Change Scenario	
1013	Authors:	Glenn R. R. Purnama, Seng Hansun, Marcel B. Kristanda	6100- 6105
	Paper Title:	Gamified Chemistry Learning AR Application for 10th Grade Student in Indonesia	
1014	Authors:	Ullas. P, K. S. Shivaprakasha	6106- 6110
	Paper Title:	Smart Clustering LEACH (SC-LEACH) Protocol for Improved Network Survivability in Wireless Sensor Networks	
1015	Authors:	M P Bhuyan, S K Sarma	6111- 6116
	Paper Title:	A statistical model for automatic Error Detection and Correction of Assamese Words	
1016	Authors:	A. Divya Preetha, T.S. Pradeep Kumar	6117- 6122
	Paper Title:	Leveraging Fog Computing for a Secure and Smart Healthcare	
1017	Autho <mark>rs:</mark>	G.Naga Raju, K.Dilip Kumar, T.Srinivasa Rao	6123- 6129
	Paper Title:	Enhancement of Cop of Vapour Compression Refrigeration System by using Diffusers	
1018	Authors:	Manel Kammoun, Ahmed Ben Atitallah	6130- 6137
	Paper Title:	FPGA-based implementation of intra prediction module for HEVC decoder	
1019	Authors:	Surbhi Nema, Pramod Kumar Jain, ,Devendra Singh Ajnar	6138- 6141
	Paper Title:	Design of 32 Tap Finite Impulse Response Filter using Vedic Multiplier and KoggeStone Adder	-
1020	Authors:	G. Nagalakshmi, A. Chandra Sekhar, N. Ravi Sankar, K. Venkateswarlu	6142- 6147
	Paper Title:	Enhancing the Data Security by Using RSA Algorithm with Application of Laplace Transform Cryptosystem	5
1021	Authors:	Alexander Pavlovich Pavlov, Pavel Aleksandrovich Pavlov, Denis Vladimirovich Lvov, Alexey Sergeevich Novikov, Irina Georgievna Sinkovskaya, Dmitry Vladimirovich Rakhinsky	6148- 6153
	Paper Title:	Existential and Archetypal Architectonics of Social (Societal) Order	
1022	Authors:	Asha Meena, Anita Garhwal, Kanad Ray	6154- 6160
	Paper Title:	Nature Inspired Fibonacci Sequence Microstrip Patch Antenna For Energy Harvesting Applications	0100
1023	Authors:	Hari Prasada Raju Kunadharaju, N. Sandhya, Raghav Mehra	6161- 6166

	Paper Title:	Multi Sensor Image Matching using Super Symmetric Affinity Tensors based HyperGraph Matching	
1024	Authors:	Moparthy Gurunadha Babu, Ch.D.V.Paradesi Rao, Y.Raghavender Rao	6167- 6174
	Paper Title:	Ultra Low Power and High Efficiency Advanced Microcontroller Design using Amba Architecture	
1025	Authors:	G R Anil, Salman Abdul Moiz	6175- 6180
	Paper Title:	Personalized Dynamic Learning Plan Generator for Smart Learning Environments	
1026	Authors:	M.Renisha, S.Asvitha Valli, N.Sakthieswaran	6181- 6185
	Paper Title:	Improvisation of Dense Matrix of Reactive Powder Concrete By Zircon Sand And Sillimanite	
1027	Authors:	T.Rajasekaran, Sumathi Eswaran, A.Rengarajan, T.V.Ananthan	6186- 6190
	Paper Title:	Active Safety with Traffic Sign Recognition System in Vehicular Ad-Hoc Network (Vanet) using Classifier Techniques	
1028	Authors:	Kaustubh Vyas, J. G. Jamnani	6191- 6197
	Paper Title:	Optimal Design of 1200 kV UHV AC Transmission Lines in India using Newly Developed Standalone MATLAB GUI	
1029	Autho <mark>rs:</mark>	R. Suguna, M. Shyamala Devi, Rincy Merlin Mathew	6198- 6203
	Paper Title:	Customer Segment Prognostic System by Machine Learning using Principal Component and Linear Discriminant Analysis	
1030	Authors:	Rakhi Ashok Deshpande, P. V. Rama Rao	6204- 6210
	Paper Title:	Developing Mathematical Models & Methodologies to Overcome Lean Strategy Selection & Leanness Assessment Problems	
1031	Authors:	Francis Densil Raj V, Arul Kumar V, A. Dalvin Vinoth Kumar	6211- 6216
	Paper Title:	Automatic Railway Level Crossing System with Embedded Precision Solar Panel using IoT	
1032	Authors:	Sund <mark>ar Santh</mark> oshk <mark>umar, C.Balakrishnan, P.Subh</mark> asri, V <mark>.Lankeswaran, M</mark> . Sangeetha	6217- 6219
	Paper Title:	Cloud B <mark>ased User Analytics And Dynam</mark> ic Pa <mark>ge Refreshment Applica</mark> tion For Web Portal	
1033	Authors:	Ranjana Gujrati, Lawan A. Lawan, Esha Jain, Varuna Tyagi	6220- 6226
	Paper Title:	Entrepreneurial Intention of Undergraduates in Nigeria: The Role of Subjective Norm	
1034	Authors:	Iswanto, Joniq Syaftriadi, Anna Nur Nazilah Chamim, Rama Okta Wiyagi, Ramadoni Syahputra	6227- 6231
	Paper Title:	LED and Servo Motor Control Via Bluetooth Based on Android Applications	
1035	Authors:	Andrews Samraj, Ramesh Kumarasamy, Nandhakumar.T, Kamalraj.T, Ragupathi.P	6232- 6237

	Paper Title:	Plant Variety and Weed Growth Identification: Trending Towards Machine Learning	
1036	Authors:	Ath Singhal, Tejas Raval, Anand Bhatt	6238- 6243
	Paper Title:	Experimental Optimization of a Solar Distillation Unit	
1037	Authors:	Anna Nur Nazilah Chamim, Muhammad Eki Fawzi, Iswanto, Rama Okta Wiyagi, Ramadoni Syahputra	6244- 6247
	Paper Title:	Control of Wheeled Robots with Bluetooth-Based Smartphones	
1038	Authors:	K. Vijayalakshmi, M. Vinayakamurthy, V. Anuradha	6248- 6251
	Paper Title:	Optimization of Machine Learning Techniques on Autism Spectrum Disorder with Swarm Intelligence Based Feature Selection	
1039	Authors:	Devesh Singh Tomar, Suneet Kaur	6252- 6257
	Paper Title:	Effect Lime and Recron Fibre on Geotechnical Properties of Black Cotton Soil	
1040	Authors:	Krishna Patel, Bhupendra Parekh, Dinesh Kumar	6258- 6266
	Paper Title:	Leakage Current Prediction of Composite Insulator using Artificial Neural Network	
1041	Autho <mark>rs:</mark>	E. Chandra Blessie, S. Gnanapriya	6267- 6279
	Paper Title:	Robustious Feature Selection Based Genetic Algorithm (RFS-GA) For Cross Domain Opinion Mining	
1042	Authors:	I. A. Dandekar, R. V. Awati, A. K. Joshi, S. S. Kulkarni, A. R. Dandekar	6280- 6284
	Paper Title:	Design of Butter Spreader- An Application of Generic Product Development Process	
1043	Authors:	Muhammad Alhakim, Tito Waluyo Purboyo, Casi Setianingsih	6285- 6290
	Paper Title:	Potential Detection Application of Nodular Melanoma on Melanocytic Nevi Image Based on Android	
1044	Authors:	Puneeth Kumar MV, T Krishna Rao, Manohar H S, Bharath V	6291- 6295
	Paper Title:	Effect of Boron Carbide on Tribological properties of Zinc Aluminium Metal matrix composites	
1045	Authors:	Md. Khaja Mohiddin, V. B. S. Srilatha Indira Dutt	6296- 6303
	Paper Title:	Routing Path Estimation Based on RWS Method for Competent Energy Dissipation Employing X-Layer Network	
1046	Authors:	Irina Anatolievna Kiseleva, Mikhail Samuilovich Gasparian, Elena Nikolaevna Chernysheva, Tatyana Nikolaevna Voronkova, Irina Sergeevna Androshina	6304- 6310
	Paper Title:	Innovative Analysis of Models for Evaluating the Probability of Enterprises Bankruptcy	
1047	Authors:	Reena Kharat, P. Sanyasi Naidu, Shital Chattar	6311- 6316

	Paper Title:	Confidentiality Preserving Instant Runoff Voting System	
1048	Authors:	Satyasangram Sahoo, Prem Kumar. B, R. Lakshmi	6317- 6320
	Paper Title:	Mixed Data through Multiple Input for Price Prediction with Multilayer Perception and Mini VGG Net	
1049	Authors:	Shyam Sunder Manaktala, K.M.Singh	6321- 6325
	Paper Title:	Design and Analyze the Effect of InGaN Nano-Material in Light Emitting Diode towards Improving the Performance of Quantum Efficiency	
1050	Authors:	Kruti J Dangarwala, Dilendra Hiran	6326- 6333
	Paper Title:	Deep Learning Feature Extraction using Pre-Trained Alex Net Model for Indian Sign Language Recognition	
1051	Authors:	Manish Bali, Samahit Mohanty, Subarna Chatterjee, Manash Sarma, Rajesh Puravankara	6334- 6340
	Paper Title:	Diabot: A Predictive Medical Chatbot using Ensemble Learning	
1052	Authors:	N. Revathi, P. Sengottuvelan	6341- 6348
	Paper Title:	lot and Big Data Framework for Paddy Cultivation	0340
1053	Autho <mark>rs:</mark>	Vimala M, Rajeev Ranjan	6349- 6352
	Paper Title:	Cloud Computing Model for Agricultural Applications	0332
1054	Authors:	Shilpa V, Rajeev Ranjan	6353- 6358
	Paper Title:	SDN Based Data Offloading and Load Balancing Techniques for Applications in 5G	
1055	Authors:	Rose S, Sreejith R, Senthil S	6359- 6366
	Paper Title:	Social Media Data Analytics to Improve the Customer Services: the Case of Fast- Food Companies	
1056	Authors:	Anan <mark>dkumar</mark> , Lalitha Y S	6367- 6370
	Paper Title:	Classification of crops using ANN	0370
1057	Authors:	Mahabaleshwar Kabbur, V. Arul Kumar	6371- 6377
	Paper Title:	Detection and Prevention of DoS Attacks in VANET with RSU's Cooperative Message Temporal Signature	0377
1058	Authors:	S. Senthil, B. Ayshwarya, Shubha	6378- 6391
	Paper Title:	Improving the Performance of Lung Cancer Detection at Earlier Stage and Prediction of Reoccurrence using the Neural Networks and Ant Lion Optimizer	0331
1059	Authors:	Kavitha	6392- 6395

	Paper Title:	Optimal Biclustering using Hybrid Swarm Intelligence for Web usage Mining	
1060	Authors:	Deepa B G, Senthil S, Gupta Rahil M, Shah Vishakha R	6396- 6399
	Paper Title:	Augmentation of Classifier Accuracy through Implication of Feature Selection for Breast Cancer Prediction	
1061	Authors:	L. Arockiam, S. Sathyapriya, V.A. Jane, A. Dalvin Vinoth Kumar	6400- 6403
	Paper Title:	Prevalence of Diabetes Mellitus in Tiruchirappalli District using Machine Learning	
1062	Authors:	Lokesh C K, Senthil S	6404- 6407
	Paper Title:	Yield Forecasting for Indian Crops with Ensemble Model	
1063	Authors:	J. Charles <mark>Selvaraj, V. Arul Kumar, V. Francis Densil Raj, A.</mark> Da <mark>lvin V</mark> inoth Kumar	6408- 6412
	Paper Title:	ECS: An Enhanced Cloud Security Algorithm	
1064	Authors:	S. Deepika, S.Senthil	6413- 6417
	Paper Title:	Credit Card Fraud Analysis using Robust Space Invariant Artificial Neural Networks (RSIANN)	
1065	Autho <mark>rs:</mark>	A. Dalvin vinoth kumar, Annie Christila S, N. Shakeela	6418- 6421
	Paper Title:	Parent Selection for IPv6 Enabled Routing Protocol for Low Power Lossy Network	
1066	Authors:	Shivanand, Shravankumar B. Kerur	6422- 6428
	Paper Title:	Failure and Thermal Examination of Hybrid Materials for a Propeller shaft in Aerospace Applications	
1067	Authors:	Arundhati Y. Niwatkar, Y. K. Kanse	6429- 6432
	Paper Title:	Speaker Recognition system and it's Applications	
1068	Authors:	Irina <mark>Anatolievna Kiseleva, Mikhail Samuilovich Gaspar</mark> ian, Elena Nikolaevna Chernysheva, Tatyana Nikolaevna Voronkova, Irina Sergeevna Androshina	6433- 6439
	Paper Title:	Models for Assessing the Bankruptcy Probability for Enterprises	0433
1069	Authors:	L. Arockiam, S. Sathyapriya, V.A. Jane, A. Dalvin Vinoth Kumar	6440- 6444
	Paper Title:	Prevalence of Type-II Diabetics Association with PM 2.5 and PM 10 in Central Region of Tamil Nadu, India	0444
1070	Authors:	Anuradha Yenkikar, Manish Bali, Narendra Babu	6445- 6452
	Paper Title:	EMP-SA: Ensemble Model based Market Prediction using Sentiment Analysis	0432
1071	Authors:	Karan George, Sreejith R, Senthil S	6453- 6458

	Paper Title:	Geographic Analytics and Visualization for Decision Making: An Application for Online Food Delivery Platform	
1072	Authors:	Tom Joe, Sreejith R, Kannan Sekar	6459- 6463
	Paper Title:	Optimization of Store Layout using Market Basket Analysis	
1073	Authors:	Darshan Shah, M. Vinayakmurthi, Anand Kumar	6464- 6468
	Paper Title:	Unified Provisioning Framework for Dynamic Virtual Machine Placement Optimization in Cloud Data Center	
1074	Authors:	Shivakumar. R,	6469- 6482
	Paper Title:	Implementation and Effective Utilization of Analytical Tools and Techniques in Knowledge Management	
1075	Authors:	Harshlata <mark>Vishwaka</mark> rma, <mark>Sunil Kumar Katiyar</mark>	6483- 6488
	Paper Title:	Effect of Land Control Points Spatial Allocation for the Image Registration of Remote Sensing Images	
1076	Authors:	Srinivas B, Khushi Kumari, Goverdhan Reddy H, Niranjan N, Hariprasad S A, Sunil M	6489- 6492
	Paper Title:	IoT Based Automated Sericulture System	
1077	Autho <mark>rs:</mark>	N. Revathi, B. Ananthi, A. S. Renugadevi	6493- 6497
	Paper Title:	Detaching and Reproducting of Data in a Cloud for Excellent Performance and Security	
1078	Authors:	Karthik Kambhampati, A. Srinagesh	6498- 6502
	Paper Title:	Client Server Communication with Effective Resource Balancing in Cloud Computing using Genetic Algorithm	
1079	Authors:	Marlapalli Krishna, V Naga Bushanam, Bandlamudi S B P Rani, K Rakesh, V Pranav	6503- 6507
	Paper Title:	Anisotropic Image Restoration Based on Image Inpainting with Diffusion Enhancement	
1080	Authors:	Rahu <mark>l Dev Gupta, Par</mark> deep <mark>Gupta</mark>	6508- 6515
	Paper Title:	Fabrication of μ-Channels on Pure-Ti using U <mark>SM</mark> and Optimization of Process Parameters	
1081	Authors:	Premila Rosy	6516- 6526
	Paper Title:	Pseudonym-Based Privacy Preserving Framework for Facilitating Cloud Data Security	
1082	Authors:	Prasad Rayi, Makkapati Venkata Siva Prasad	6527- 6534
	Paper Title:	Massive MIMO: Achievable Energy Efficiency for 5G systems with Multi-user Environment	
1083	Authors:	V.V. Vinoth, E.Kanniga	6535- 6537

	Paper Title:	Steganographical Techniques in Hiding Text Images – System	
1084	Authors:	Md. Abdullah Al Mamun, Md. Atiar Rahman, Sabiha Sattar, Mohaimina Begum	6538- 6543
	Paper Title:	Microcontroller Based Multichannel Data Acquisition System using LabVIEW	
1085	Authors:	Amar Buchade, Rajesh Ingle	6544- 6548
	Paper Title:	Security and Privacy of Data in Cloud Computing	
1086	Authors:	Mayanka Sharma, Manish Mundada	6549- 6553
	Paper Title:	Professionalism and Family Business Management The Synergy Leading towards Business Excellence	
1087	Authors:	Arun Ingle	6554-
	Paper Title:	Promotion of Academic Integrity and Prevention of Plagiarism in Hei Ugc Regulations 2018 – Implications for Researchers	6557
1088	Authors:	Sujith Jayaprakash, Jaiganesh V	6558- 6561
	Paper Title:	Predicting Academic Performance of Tertiary Students using Classification Algorithm	0301

Safety of Bioinsecticide Ekstract Sugar Apple Seed's Granule (Annona squamosa L.) on Histology of White Rat (Rattus norvegicus B.)

Dwi Wahyuni, Rifqi Fuadatul Lathifa, Vendi Eko Susilo

Abstract: The granules of sugar apple seeds extract (Annona squamosa L.) have been taken as the natural larvacide an economical in eradicating mosquito flicks of Aedes aegypti L. because of its the content of toxic compounds such as acetogenin, alkaloids, and flavonoids. In its use it is feared to cause toxic in the environment, especially the class of mammals as non-target animals, especially kidney organ. The kidney is an organ that is susceptible to toxic effects, since it receives 25-30% of the blood circulation to be cleaned, so that as a filtration organ there is a possibility of pathological changes. This study aims to determine the effect granules of sugar apple seeds extract (Annona squamosa L.) on the histology of white rat (Rattus norvegicus B.). Kidney histology observed as fat degeneration, hydrophic degeneration, and necrosis of tubular cells occurred in one field of view. The concentration given was 1 mg, 2 mg, 4 mg, and 8 mg while the negative control induced 2 ml aquades and positive control using abate 100 mg for 14 days with sonde method. The analysis used in this research is descriptive analysis with scoring. The results showed that granules of sugar apple seeds extract did not give effect to histology of white rat (Rattus norvegicus B.).

Index Terms: Granules Extract, Safety Bioinsecticide, Histology, Sugar Apple Seed's Granule

I. INTRODUCTION

The sugar apple plant (Annona squamosa L.) is now scattered throughout Indonesia, although it is still limited to planting. People only use fruits for consumption [1]. The seed of sugar apple is one part of the sugar apple plant (Annona squamosa L.) that secretes into a natural insecticide. The seeds of contain chemical compounds of acetogenin consisting of annonain, squamosin, and asimisin [2].

Sugar apple seeds are oval, shiny and smooth, black or dark brown, and measuring 1.3-1.6 cm with a weight of 5-18 grams [3]. The seeds of srikaya also contain alkaloid compounds that can cause insect death through the mechanism of contact toxins and stomach toxins. In addition, alkaloids are thought to have the effect of inhibiting lipase enzyme activity because it has a chemical structure similar to orlistat (the presence of N elements). While flavonoids are respiratory inhibitors by working to damage the siphon and weaken the nervous system by inhibiting the action of acetylcholinesterase enzyme [4]. Efforts to control insects have long been done and almost all people use synthetic insecticides. Abate is one of the synthetic insecticides that are often used in the community to eradicate mosquito larvae. Increased use of synthetic insecticides results in resistance to

Revised Manuscript Received on July 06, 2019.

Dwi Wahyuni, Biologi Education Departemen, University of Jember, Jember Indonesia

Rifqi Fuadatul Lathifa, Biologi Education Departemen, University of Jember, Jember, Indonesia

Vendi Eko Susilo, Medical Departemen, University of Jember, Jember, Indonesia.

targeted insects, as well as residues that can pollute the environment [5]. Based on these facts need further action with security testing on mammals to be made as bioinsektisida that is safe for the surrounding environment, especially in mammals.

In addition to using extracts, the seed granules of srikaya seed (Annona squamosa L.) has now become an economical natural insecticide in the control of Aedes aegypti L larvae. The use of natural insecticides in granule form is more stable if stored in a long period of time and more applicable in its use by the community [6].

Srikaya plants (Annona squamosa L.) can grow on all soil types with pH 6-6.5. Thus, cultivated srikaya planted in a rather acidic environment. The most preferred type of soil is the soil containing lots of sand and lime. The area with an altitude of 100-1000 m above sea level is the height favored by srikaya plants, but the best height is at an altitude of 100-300 m above sea level. While the preferred temperature of srikaya plants ranges from 20-25°C [1].

The seed of srikaya (Annona squamosa L.) is one part of the srikaya plant (Annona squamosa L.) that has the potential to be developed as bioinsecticide. As in the research which states that the seeds of srikaya can be used to kill lice and insects. The seeds of srikaya consist of various toxic compounds such as acetogenin, alkaloids, and flavonoids [7]. The toxicity possessed by this plant has a level of toxic residue that is easily lost which is about 48 hours after use [8]. The compound of acetogenin in srikaya seed consists of annonain which has chemical formula C35H64O7 and squamosin with chemical formula C37H66O7. These compounds have properties as insecticides, acaricides, antiparasites and bactericides with inhibitor mechanism [9].

Alkaloids in somatic seeds can act as insecticides. larvacides, insect repellents and inhibitors [10]. Alkaloids are secondary metabolites that are plant antioxidants and are capable of causing insect death through toxic mechanisms of contact and abdominal toxins and are easily broken down if stored for long periods [11]. Alkaloid compounds are suspected to have the effect of inhibiting lipase enzyme activity because it has a chemical structure similar to orlistat (the presence of N elements). While flavonoids are respiratory inhibitors by destructive siphon work and weaken the nervous system by inhibiting the action of enzyme acetylkolinesterase [12]. Granules are clumps of small particles that can be stored for a long time, and are more

stable in their use. Granules have low concentrations of active ingredients and varying sizes. The size of the granules



usually ranges from 4-12 mesh sieve,

but the granular size can be adjusted according to the research needs [13]. Granules are products produced by the granulation process which will then be used as solid dosage. Method of making granules there are 2 types, namely wet granulation and dry granulation [14].

Research conducted found that the granule of extracts of seeds srikaya (*Annona squamosa* L.) can kill 50% larvae of Aedes aegypti L. mosquitoes of 1.08 ppm within 24 hours [15]. Biopesticides are usually biodegradable, so they do not pollute the environment and are relatively safe for humans and livestock because the residue is quickly lost. However, it is possible that organic compounds present in biopesticides can affect organs in non-target animals [16]. The use of herbs as traditional medicine for long periods of time can cause symptoms of toxicity. Any drug taken orally will undergo a process of absorption, metabolism and excretion. The kidneys have an important function in the process of excretion of ingredients that enter the body orally.

The kidney is an organ that is susceptible to toxic effects, since it receives 25-30% of the blood circulation to be cleaned, so that as a filtration organ there is a possibility of pathological changes. Therefore, there is a need for further research on the effects that will be generated by the extract of the seed granules srikaya (*Annona squamosa* L.) against the kidneys of white rats (*Rattus norvegicus* B.).

As a result of the use of natural larvacide is seen from the histology of the kidneys that occur in non target animals. This study uses test animals that can be synonymous with events that may arise when the granules are used by humans. Humans are a class of mammals so that researchers use a test animal that is white mouse (*Rattus norvegicus* B.). these wistar white rat strains are included in the mammalian class to allow for the same effects as humans. The observed histologies are hydrophic degeneration, fat degeneration, and necrosis.

II. MATERIALS AND METHODS

This research is a type of laboratory experimental research. This series of research was conducted in Biomedical Laboratory of Faculty of Dentistry of Jember University for acclimation, treatment of white rat (Rattus norvegicus B.), treatment to histology preparation, while histology observation was done at Biology Education Laboratory of FKIP University of Jember. The implementation of this study began in January 2018.

The procedures include sterilization of tools and materials, maintenance and treatment of white rats (Rattus norvegicus B.), administration of extracts of somatic seed extract (Annona squamosa L.), surgery, renal histology preparation, histologic observation. The concentration given was 1 mg, 2 mg, 4 mg, and 8 mg while the negative control induced 2 ml aquades and positive control using abate 100 mg for 14 days. The analysis used in this research is descriptive analysis.

III. RESULT AND DISCUSSION

The results of histologic observation of rats of white rat (*Rattus norvegicus* B.) after granula extract of seed srikaya (*Annona squamosa* L.) orally. Figure 1, 2. 3 and 4 represents the renal histology of white rats (*Rattus norvegicus* B.)

treatment group, figure 5 is positive control group, and figure 6 is negative control can be seen in the following.

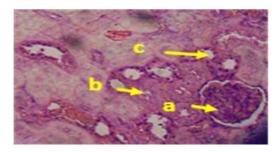


Figure 1. Renal histology of treatment group 1 (P1) with HE staining. a = glomerolus; b = proximal tubules; c = distal tubule (Magnification 400 X)

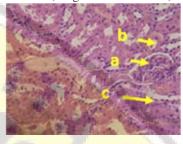


Figure 2. Renal histology of treatment group 2 (P2) with HE staining. a = glomerolus; b = proximal tubules; c = distal tubule (Magnification 400 X)

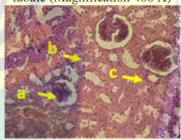


Figure 3. Renal histology of treatment group 3 (P3) with HE staining. a = glomerolus; b = proximal tubules; c = distal tubule (Magnification 400 X)

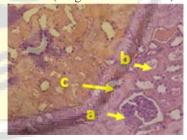


Figure 4. Renal histology of treatment group 4 (P4) with HE staining. a = glomerolus; b = proximal tubules; c = distal tubule (Magnification 400 X)

Figure 5. Renal histology of treatment group (K+) with HE staining. a = glomerolus; b = proximal tubules; c = distal tubule (Magnification 400 X)



Digital Repository University 2277-3878, Volume-8 Issue-2, July 2019

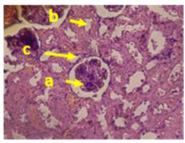


Figure 6. Renal histology of treatment group (K-) with HE staining. a = glomerolus; b = proximal tubules; c = distal tubule (Magnification 400 X)

From this research it can be seen that the histology of kidney rats in the treatment group (figure 1, 2, 3 and 4) and control group figure 5 (K+) and figure 6 (K-) did not show any difference. In this microscopic observation there is no sign of damage such as degeneration of fat which is usually characterized by a yellow vacuole surrounding the tubule epithelial nucleus, a hydrophic degeneration characterized by tubular epithelial tubular epithelium, and necosis characterized by loss of the tubule epithelial nucleus. Thus, from the observation it can be seen that there is no effect of extract of somatic seed extract (*Annona squamosa* L.) on the histology of rats white rat (*Rattus norvegicus* B.) [15].

The mosquito's digestive system is different from mammals. Mammalian digestive system is much more complex than the digestive system in mosquitoes. Mosquitoes have digestion outside the intestinal tract (Elstrainstestinal Digestion) in which mosquitoes will release a special fluid to suck blood without blood clotting. The mosquito has blood on its body that resembles a mammal called hemolymph. Hemolymph is a liquid consisting of water, inorganic salts, proteins and fats. These materials serve to regulate the body temperature of mosquitoes, transporting nutrients, and immune. Blood circulation in mosquitoes is different from mammals. Circulatory system in the mosquito that is an open circulation system, whereas in mammals, especially white mice have a closed circulatory system.

One of the additional ingredients used in the manufacture of granules is lactose. Lactose (C₁₂H₂₂O₁₁) can condense granule masses and readily mix homogeneously. Lactose is a form of disaccharide of carbohydrates that can be broken down in the simpler form of galactose and glucose. This glucose will be through the digestive mechanism to the small intestine and absorbed into the bloodstream. This blood will later be filtered in the kidney which is one of the organs of excretion in mammals.

Kidney is the main organ of drug excretion. Through urine, the kidneys excrete ingredients that are no longer needed by the body. Urine is the main path of excretion of toxicants, consequently the kidney has a high volume of blood flow. Kidney is prone to toxic substances, if too many toxic substances in the kidney will result in organ damage. The proximal part of the proximal tubule is the part that has an important role in the reabsorption of glucose and other important substances that are still needed by the body [16]. Proximal tubular epithelial cells are particularly susceptible to toxic substances. This is because in the proximal tubules occurs the process of absorption and active secretion, and levels of cytochrome P450 in the proximal tubulus is higher

to activate toxic substances, so often become the main target of toxic substances. Exposure to proximal tubules by toxic substances will continuously lead to cell death or necrosis. Renal damage the response of kidney damage produced in the direction of the higher concentration of toxic compounds that concern the organs of the kidney. Kidney damage is also associated with the ability of the kidneys to concentrate xenobiotic substances in the cells. Damage to proximal tubules caused by toxic substances is influenced by several factors including the type of chemical compound, dose, and duration of exposure of the compound. Higher concentrations will result in damage to the proximal tubules becoming wider [17].

IV. CONCLUSION

Granules extract of sugar apple seeds (Annona squamosa L.) are safe against the histology of the white rat (Rattus norvegicus B.) because the results are not found in tissues such as hydrophic degeneration, lipid degeneration, and necrosis of tubular epithelial cells.

V. ACKNOWLEDGMENT

This work was support in part of Laboratory Teacher Faculty and Education and Laboratory Dentistry, Universiti Of Jember.

REFERENCES

- 1. H. Sunarjono, Sirsak Srikaya (Cultivation to Produce Prime Fruit).

 Depok: Swadaya, 2005. pp. 10 15
- D. Wahyuni, and I. Loren. 2015. Difference in Extract Toxicity of Betel Leaves (*Piper betle* L.) with Srikaya Seed Extract (*Annona squamosa* L.) Against *Aedes aegypti* Mosquito Larvae. *Saintifika*. 17(1): 38-48
- 3. Kalidindi, N., N. V. Thimmaiah., N. V. Jagadeesh., R. Nandeep., S. Swetha., dan B. Kalidindi. 2015. Antifungal and Antioxidant Actives Of Organic and Aqueous Extract Of *Annona squamosa* L. Leaves. *Journal of Food and Drug Analysis*. 23: 795-802
- 4. Himawan, S. 1992. *College of Pathology*. Jakarta: UI Press
- Satria, W., dan H. Prasetyowati, 2012. Larvicidal Power of Srikaya Seed Extract (Annona squamosa) with Different Storage Time Spans Against Larvae Culex quinquefasciatus. Aspirator. 4(1):21-26
- Puspasari, V. G. 2014. Granule Toxicity of Srikaya Seed Extract (Annona squamosa L.) Against Aedes Skripsi. Jember: Universitas Jember
- 7. Kinasih, I., A. Supriyatna., dan R. N. Rusputa. 2013. Toxicity Test of Bandotan Leaf Extract (*Ageratum conyzo*ides L.) Against Carp (*Cyprinus carpio* L.) As a Non Target Organism. *Jurnal Biologi*. (2):121-132
- Gryzbowski A, Tiboni M, Silva MA. Chitolia RF, Passos M, Fontana JD. 2011. The Combinated Action of Phytolarvicides for the Control of Dengue Fever Vector, Aedes aegypti. Rev Bras Farmacom. Doi:10.1590
- Morton, J.F. 1987. Fruits and Warm Climates. London: University of Michigan
- Wardhana, A. H., A. Husein., dan J. Manurung. 2005. Effectiveness of Srikaya Seed Extract (*Annona squamosa* L.) with Water, Methanol and Hexane Solvents on In Vitro Mortality of Caplak *Boophilus Microplus*. *JITV*. 10(2): 134-142
- Kadja, Don H. 2010. Annona Squamosa As A Safe Alternative For Pest Control. Jurnal Media Exacta. 10(3)
- Widodo, F. 2010 Morphological Characterization of Several Accessions of Srikaya Plants in Sukolilo, Pati, East Java. Surakarta: Universitas Negeri Sebelas Maret
- Harada, K., Suomalainen, M., Uchica H., Masui, H., Ohmura, K., Kivaranta J., et al. 2000. Imsectisidal Compunds againt Mosquito Larvae from Oscillatoria agardhi strain 27. Environ Toxicol. 15:114

 Wahyuni, D., J. Waluyo., dan J. Prihatin. 2013. Granulation of IJRTE

Www.ijte.org

Exploring Innovation

Published By:
Blue Eyes Intelligence Engineering
& Sciences Publication

Safety of Bioinsecticide Ekstract Sugar Apple Seed's Granule (Annona squamosa L.) on Histology of White Rat (Rattus norvegicus B.)

- Toxic Compounds to Eradicate Aedes aegypti Mosquito Larvae. Jember: Lembaga Penelitian Universitas Jember
- Cloyd, R. A. 2004. Natural Indeed (Are Natural Insecticides Safer and Better than Conventional Insecticides). *Illinois Pesticide Review*. 17(3):1-8
- Wijayanti, A. 2016. The Effect of Mangosteen Bark Extract (Garcina mangostana) on the Histological Picture of Liver and Kidney Mice (Mus musculus) Exposed to Cigarette Smoke. *Jurnal Biologi*. 3(8): 10-18
- Tenzer, A. 1993. Animal Structure Part II. Malang: Institut Keguruan dan Pendidikan Malang

AUTHORS PROFILE



First Author Graduate from Universitas Sebelas Maret, Master from Airlangga University, Doctoral from Airlangga University. The focus of research in Microbiology and medical. Lecture in Biologi Education Departemen University of Jember



Second Author Graduate Student of Biology Education Departemen from University of Jember



Third Author Graduate from Universitas of Jember. Master from Bogor Agricultural Institute. The focus of research in Biosystematic. Lecture in Biologi Education Departemen University of Jember.



Healing Effects of Fresh Earthworms (Pheretima Javanica K.) for Typhoid Fever Induced in Male White Rat (Rattus Norvegicus L.)

Joko Waluyo, Dwi Wahyuni, Wiwien S. Utami

Abstract: Typhoid fever is systemic infectious disease caused by Salmonella typhi bacteria which is still considered as a health problem for the world people. This reasearch aims to know the healing efffects of fresh earthworm species Pheretima javanica to reduction typhoid fever replace the treatment using cloramphenicol. This research using male white rats (Rattus norvegicus L.) with negative control and positive control by using cloramphenicol. and 4 treatments group of each 5 rats. The test consists of Widal test, feces test and body weight measurement were analyzed descriptively, while body temperature measurement was analyzed by using ANOVA test and continued with Duncan test with confidence rate at 95%. The analyzed result got probably result p = 0,0001 (p < 0,05) means that fresh earthworm has a significant effect on the reduction of typhoid fever on male white rats with optimal dosage is 3 gram / 0.2 kg BB.

Index Terms: Fresh Pheretima javanica K., typhoid fever, Salmonella typhi, Widal Test..

I. INTRODUCTION

Typhoid fever is a global health problem caused by Salmonella typhi [6]. In developing countries, an estimated incidence is 540 / 100,000 in a year. It is estimated that there are about 17 million cases worldwide each year. Salmonella typhi is transmitted from impurities which enter the body through the digestive tract [10].

Fever or warm are the main symptoms of typhoid fever [7]. The common treatment for typhoid fever patients is antibiotics [3]. Antibiotics which are often used in the treatment of typhoid fever are chloramphenicol, ampicillin, cotrimoxazole, norfloxacin, neomycin, ciproflaksasin and ofloxacin. Using antibiotics is caused new problems, that cause emergence of resistance, especially on the unprocedural and uncontrolled antibiotics [9].

To overcome those problems, it takes a natural medicine which comes from animals and plants. Earthworms are often used to treat typhoid fever and reduce heat for common people. [4] In rural areas, earthworms are often used as typhus or typhoid fever in various ways, fried without oil, boiled, and crushed mixed with water of *siyem* pumpkin then drunk [8] or

Revised Manuscript Received on July 06, 2019.

Joko Waluyo, Biologi Education Departemen, University of Jember, Jember, Indonesia

Dwi Wahyuni, Biologi Education Departemen, University of Jember, Jember, Indonesia

Wiwien S. Utami, Medical Departemen, University of Jember, Jember, Indonesia

typhoid fever in various ways, fried without oil, boiled, and crushed mixed with water of siyem pumpkin then drunk [8]. The types of earthworms found in Java are Pontoscolex coretrurus, Lumbricus rubellus, Pheretima capensis and

Pheretima javanica. Among those earthworms, Pheretima javanica K. are the highest population and have relatively larger bodies than others [8].

In the body of earthworm (Pheretima javanica K.), there are antipyretics like arakhidonat acid, antipurin, anti-poison, and vitamin. The content of that substances makes earthworms can decrease body temperature and inhibit the growth of bacteria [9].

A study was done by Purwaningtyas (2009), who said that fresh earthworms (*Pheretima javanica* K.) can inhibit *Salmonella typhi* growth in vivo. So that, this reasearch conducted further research with the addition of dosage. It is expected to heal typhoid fever faster by using fresh earthworms (*Pheretima javanica* K.) rather than chloramphenicol.

Typhoid fever is usually diagnosed by blood culture, stool culture, bone marrow culture, bile culture and serological techniques, among these blood culture is considered as gold standard and becomes positive in first week of fever, Serological techniques including Widal is still commonly used in endemic areas of developing countries. [11] So, in this experiment the widal test will be used to detect the bacteria *Salmonella typhi* cause typhoid fever.

II. MATERIALS AND METHODS

This research consisted of some stages. They are animal model preparation stage, fresh earthworm making stage, and treatment stage. The animal model preparation stage was done by preparing animal model namely male white rats of Wistar species which was first acclimated for a week. The fresh earthworm making stage was started by collecting samples of earthworm type *Pheretima javanica* K. The first step is fresh earthworm was washed and blended, then weighed with a dosage of 1.8 grams / 0.2 kg BB; 2.4 grams / 0.2 kg BB; 3 grams / 0.2 kg BB and 3.6 grams / 0.2 kg BB. The treatment stage was started with Salmonella typhi infection up to earthworm induction. one negative control and one positive control use cloramphenicol with 5 times replication for each treatment group.



Healing Effects of Fresh Earthworms (Pheretima Javanica K.) for Typhoid Fever Induced in Male White Rat (Rattus Norvegicus L.)

This research consisted of some tests, like Widal test, feces test, rat body temperature measurement, and rat body weight measurement. This study has several tests such as widal Test, fecal test, rat body temperature measurement and rat body weight measurement. The widal test was performed in 4 stages, widal I test was performed after acclimation, widal II test was performed after mouse showed symptoms of typhoid fever, widal III test was done after 2 weeks of treatment using fresh earthworm, widal IV test was done to ensure animal experiments negative salmonella typhi. Temperature measurements and faeces tests are performed every day while weight is performed every week

The results of Widal test, feces test, and rat body weight measurement would be analyzed descriptively. While the result of rat body temperature measurement would be analyzed by using ANOVA for parametric data

III. RESULT AND DISCUSSION

The parameters observed in this study are the decrease of white rat (*Rattus norvegicus* B.) body temperature post-induction of earthworm (*Pheretima javanica* K.), the decrease of antibody titer to Salmonella typhi in white rats (*Rattus norvegicus* B.) blood, feces test, and rat body weight as an additional data.

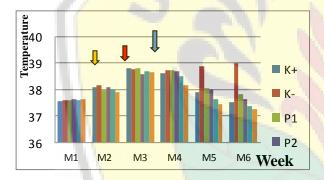


Fig 1. Temperature Body Along Acclimation, Infection of Salmonella Typhi and Fresh Earthworms

Administration Periods

NOTES:

K+ : Cloramfenicol induction 0,018 g/0,2 kg BB

K- : Aquades induction 2 ml

P1 : Fresh Earthworms induction (*Pheretima javanica* K.) dosage 1,8 gram/0,2 kg BB

P2 : Fresh Earthworms induction (*Pheretima javanica* K.) dosage 2,4 gram/0,2 kg BB

P3 : Fresh Earthworms induction (*Pheretima javanica* K.) dosage 3 gram/0,2 kg BB

P4 : Fresh Earthworms induction (*Pheretima javanica* K.) dosage 3,6 gram/0,2 kg BB

: Acclimation Period/M1

: Infection Period of Salmonella typhi/M2-M3

: Induction Period of Fresh Earthworms (*Pheretima javanica*) /M3-M6

Figure 1 shows that rats' body temperature is about 37.6 °C in acclimation period of all treatments. After bacterial infection, the average of the rats' temperature was increased to 38.7 °C. At the third week post treatment fresh earthworm (*Pheretima javanica* K.) for 23 days, it was resulted in

significant temperature decreasing in K+, P1, P2, P3 and P4 rats' group. In contrast to K-rats which are treated in negative control and aquades induction.

Based on white mouse body temperature measurement, one way ANOVA analysis was conducted. Fresh earthworms have significantly effect on decreasing rat body temperature presenting typhoid fever (p=0.0001) The results of ANOVA test also has a significant difference of the treatment for each group, so that it was needed Duncan test. Duncan test resulted significant value p< 0,05. This indicates that any treatment given in the study provides a significant difference in decreasing rats' body temperature.

The second parameter observed is widal test. Widal test aims to detect the presence of antibodies of Salmonella typhi bacteria by measuring the levels of antibody agglutination against O and H antigens in blood samples. The widal titer is usually a multiple of 1/40, 1/80, 1/160, 1/320, 1/640.[6]

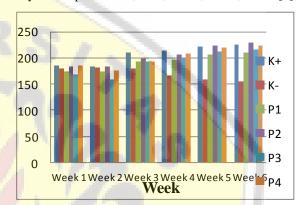


Figure 2. Comparison of Weight Variations Along The Treatment Weeks and Groups or Treatment

Table 1. The Result of Widal Test In Male White Rats

ш	ole 1. The Result of Widai Test III Wale Willie Rats						
	Treatments	Widal	Widal	Widal	Widal		
	Group	I	II	III	IV		
	P1	1/40	1/320	1/8 ₀	1/40		
	P2	- /	1/160	1/80	1/40		
	P3		1/320	1/40	1/40		
	P4	1/40	1/160	1/40	-		
	K(+)	1/40	1/160	1/80	1/40		
	K(-)		1/160	1/160	1/320		

The table showed that there was an increase of antibody titer in white blood samples after Salmonella typhi infection, and decreased after fresh earthworm induced (*Pheretima javanica K.*), except in K(-) treatment which increased antibody titer continuously. This indicates that more bacteria *Salmonella typhi* are in the blood of the rats, this happens because the negative control is not given antibacterial substances but only given aquades.

To support the statements, feces test was also done. Positive results were indicated by the thick and black growth in the SSA medium. Positive results indicated that white rats actually had typhoid fever. After the induction of fresh earthworms (*Pheretima javanica* K.), negative results were



Digital Repository Universitas Jernoer Issue-2, July 2019

obtained on the treatment of K (+), P3 and P4, while P1 and P2 were still seen the growth of Salmonella typhi but not as much as before. In the K(-) treatment, Salmonella typhi growth was increasing, indicating that white rats are still positively typhoid fever.

In this study, researchers also performed weight measurements to determine the effect of Salmonella typhi bacterial infection against white mice. In Figure 2, it is seen that the weight of white rats decreased after infection with Salmonella typhi bacteria. However, after fresh earthworms, the weight of rats increases again, this is because fresh earthworms can inhibit Salmonella typhi bacteria and it also contains high protein that improves cells damaged by salmonella typhi infection so that the rats are getting healthy.

Use of the whole fresh earthworms (Pheretima javanica K.) with the contents of their stomach can reduce symptoms of typhoid fever that were influenced by the content of the antipyretic substance in earthworms, such as arachidonic acid, antipurin, antitoxic, and vitamins. This substance can decrease earthworms' body temperature and inhibit the growth of bacteria [9]. Earthworm also has Lumbricin compounds. Lumbricin is an antibacterial compound in earthworms which belongs to the class of antimicrobial peptides. It is a natural defense against the presence of pathogenic microbes in its environment [4].

The compound used as a drug is not only pure from the earthworm itself, but also there are microorganisms which have antibiotic compounds. In the body of earthworms, it was found various Streptomyces that produce antibacterial compounds [7]. Antibacterials produced by Streptomyces can inhibit the growth of gram-negative bacteria such as Salmonella typhi [2].

IV. CONCLUSION

Based on the result of the research, it can be concluded that the induction of fresh earthworms (Pheretima javanica K.) influenced the healing typhoid fever in white rats (Rattus norvegicus B.). the best dosage with faster healing of symptons of typhoid fever experimentally induced in rats was 3.6g of fresh earthworm/0.2kg of weight.

REFERENCES

- Health Department of Indonesia. (2013). Systematic Guidelines for Typhoid Fever Control. Jakarta: Directorate General of Disease Control & Environmental Health.
- 2. Dwidjoseputro, D. 1994. Basic Of Microbiology. Jakarta: Djambatan.
- Handayani, L., &Suharmiati. 2011. In order for Children Not Easy Sick. Jakarta Selatan: Agromedia Pustaka.
- Istiqomah, L., Ema D., Hardi, J., Dewi, I., & Sri, W. 2014. Granul Compounding Extracts of Earthworm Extracts (*Lumbricus rubellus*) Against In Vitro Pathogenic Bacteria. *Journal Science Veteriner*. Vol. 32 (1)
- Mirza S., Kariuki S., Mamun K. Z., Beeching N. J & Hart C. A. 2000. Analiysis of Plasmid and Cromosomal DNA of Multidrug-Resistant Salmonella enterica Serovar Typhi from Asia. *Journal of Clinical Microbiology*. Vol 38 (4).
- Reuben C.R., Hassan S.C., & Jatan A.G. 2013. Restropective and Cross-Sectional Studies of Typhoid Fever in Pregrant Women in a Community in Central Nigeria. *Internatuonal Journal of Advanced* Research.Vol 1(3).
- Sumardi. 1998. Detection and Characterization of Antibacterial Compounds of Earthworm Extract Alolobophorarosea. In science and technology journals. Bandar Lampung: University of Lampung.
- 8. Waluyo, J. 1994. Distribution and Density of Earthworms in Jember Region. Jember: University of Jember.

- Waluyo, J. 2006. Characterization of Antibacterial Proteins from Earthworms Pheretima javanica. Journal of Saintifika 7 (2): 165-178.
- WHO. 2008. Prepared for World Water day 2001. Reviewed by staff and experts from the cluster on communicable disease (CDS) and the water. Sanitation and Health Unit (WSH).
- Naeem Bukhari, et al., Comparative Clinical Utility of Widal and Typhidot in the Diagnostic of Typhoid Fever, International Journal of Biosciences. 9 (2).2016

AUTHORS PROFILE



First Author Graduate from Universitas Sebelas Maret, Master from Airlangga University, Doctoral from Airlangga University. The focus of research in Microbiology and medical. Lecture in Biologi Education Departemen University of Jember



Second Author Graduate from Universitas Sebelas Maret, Master from Airlangga University, Doctoral from Airlangga University. The focus of research in Microbiology and medical. Lecture in Biologi Education Departemen University of Jember



Third Author Graduate from Gajah Mada University, Master from Gajah Mada University, Doctoral from Gajah Mada University. The focus of research in Microbiology and medical. Lecture in Medicaln Departemen University of Jember

