

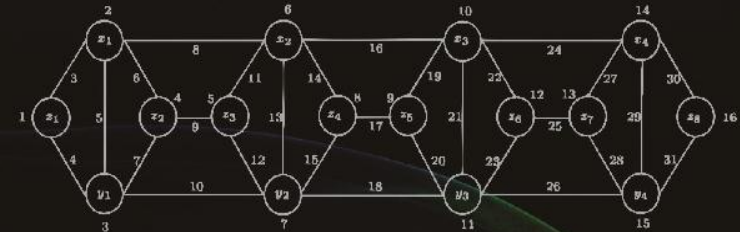


Prof. Drs. Dafik, M.Sc, Ph.D. lahir di Situbondo, 2 Agustus 1968. Sekolah dasar sampai dengan sekolah menengah diselesaikan di Situbondo, kemudian menyelesaikan program sarjana Pendidikan Matematika pada tahun 1992 di FKIP Universitas Jember dan diangkat menjadi dosen program studi pendidikan Matematika sejak tahun 1992 sampai sekarang. Gelar Master diperoleh dari University of Manchester Institute

of Science and technology (UMIST) U.K Inggris tahun 1998 bidang Numerical Computation, sedangkan Gelar Dokornya diperoleh dari School of Information and Technology and Mathematical Science (ITMS) University of Ballarat, Australia tahun 2007 dalam bidang Matematika: Kombinatorika dan Teori Graf. Sejak Agustus 2013 penulis mendapatkan gelar Profesor dalam bidang Matematika Diskrit: Kombinatorika dan Teori Graf. Jabatan dosen dengan tugas tambahan yang pernah diterimanya adalah Ketua Laboratorium Komputer FKIP UNEJ, 1998-2004, Ketua Program Studi Pendidikan Matematika FKIP Universitas Jember 2008-2013, ketua penyunting jurnal Pancaran Pendidikan FKIP Universitas Jember 2013-sekarang, ketua Perhimpunan Alumni dan Pemerhati Pendidikan Matematika Indonesia (PERHAPPMI) sejak 2010-sekarang, dan terakhir sebagai sekretaris LP3 Universitas Jember 2013-sekarang.



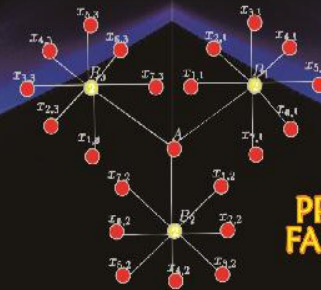
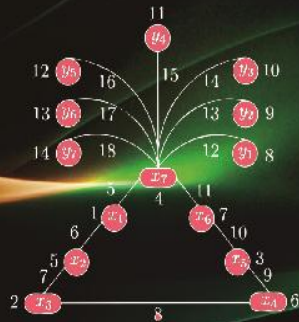
TEORI GRAF, APLIKASI DAN TUMBUHNYA KETERAMPILAN BERPIKIR TINGKAT TINGGI



PIDATO PENGUKUHAN GURU BESAR

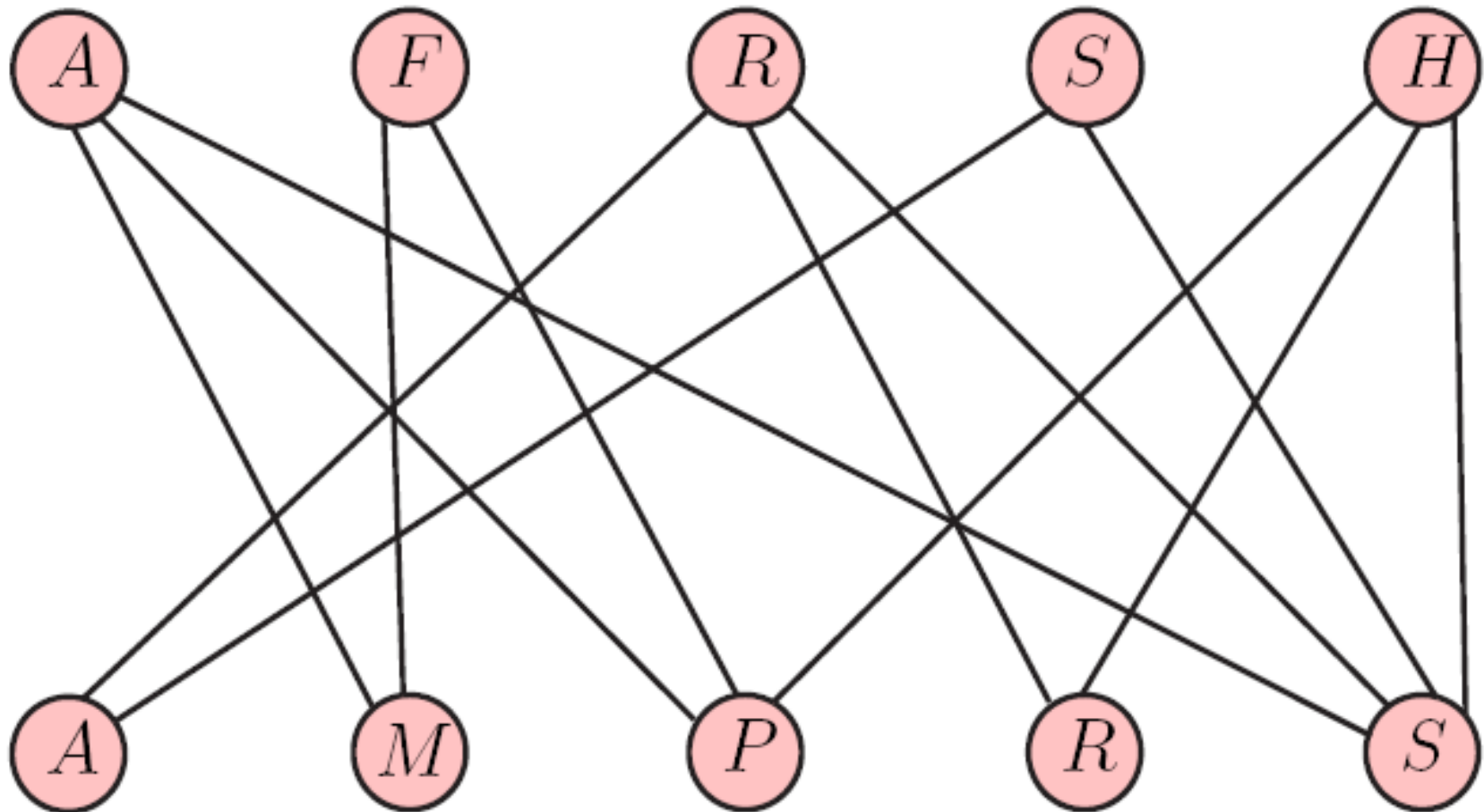
Prof. Drs. Dafik, M.Sc, Ph.D.
 Profesor Ilmu Kombinatorika dan Graf
 CGANT Research Group

**PROGRAM STUDI PENDIDIKAN MATEMATIKA
 FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN
 UNIVERSITAS JEMBER
 MEI 2015**



Gambar 1. Graf Kesukaan Anak Terhadap Buah-buahan

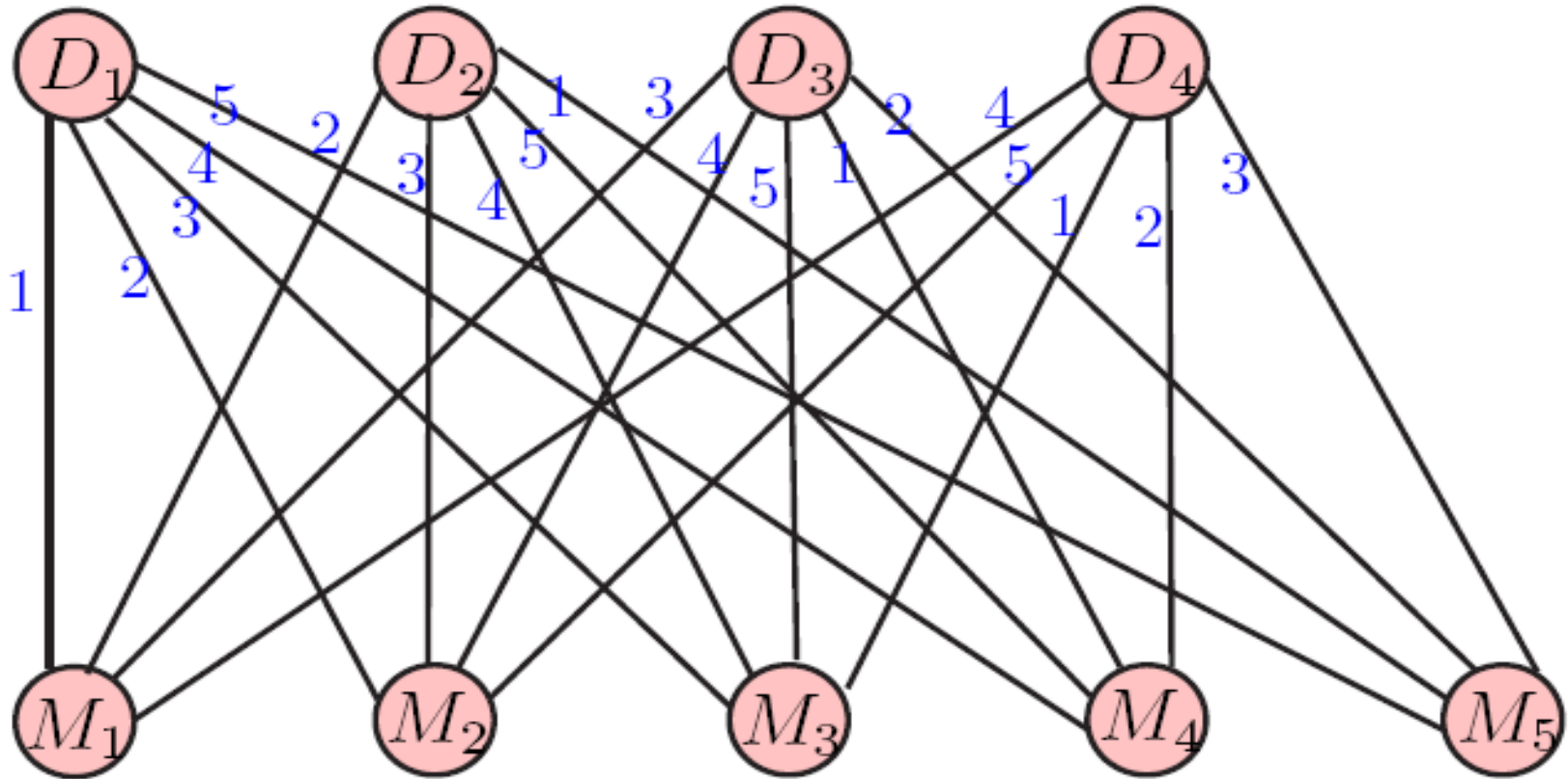
Himpunan Anak



Himpunan Buah-buahan

Gambar 2. Pewarnaan Sisi Graf Tentang Jadwal Ujian

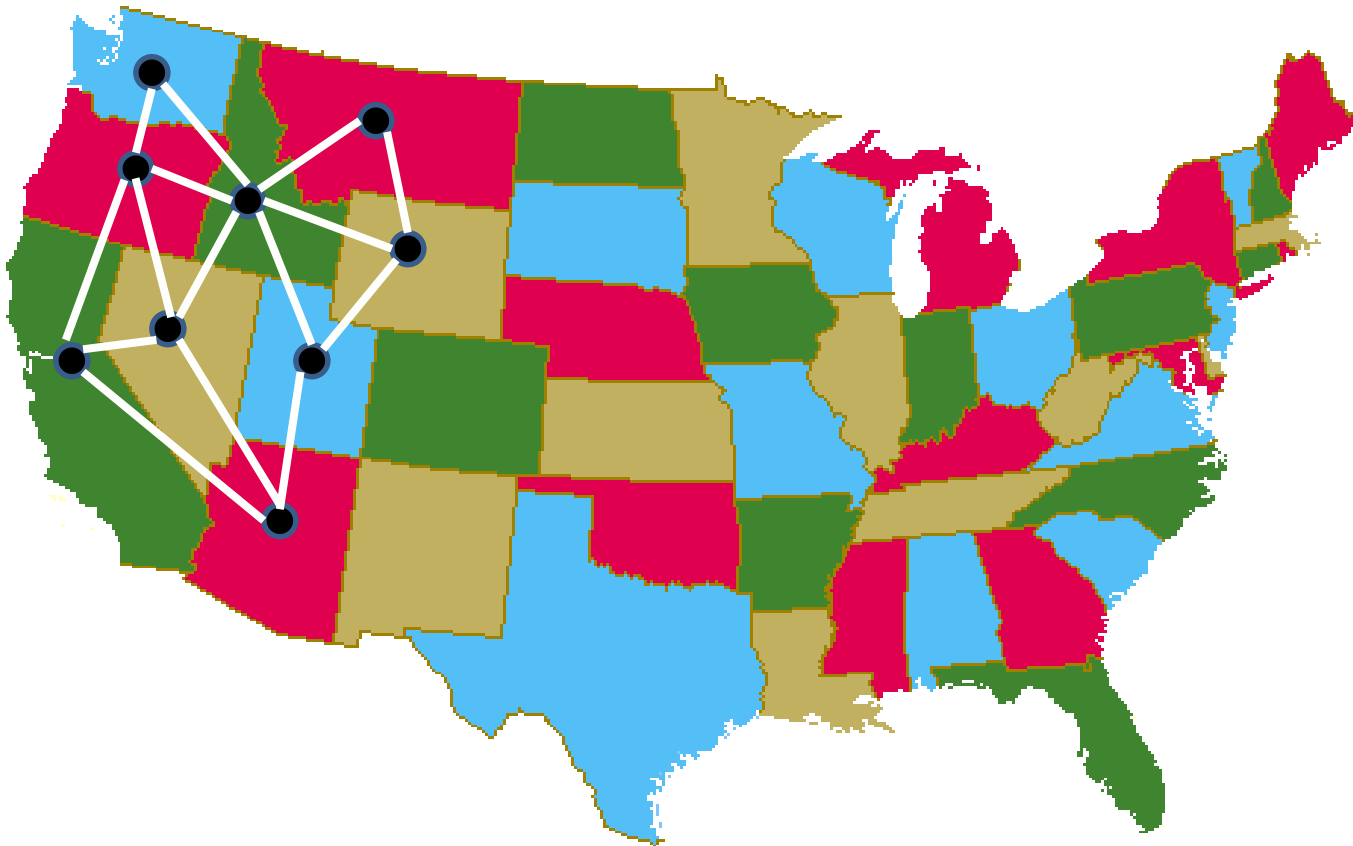
Himpunan Dosen



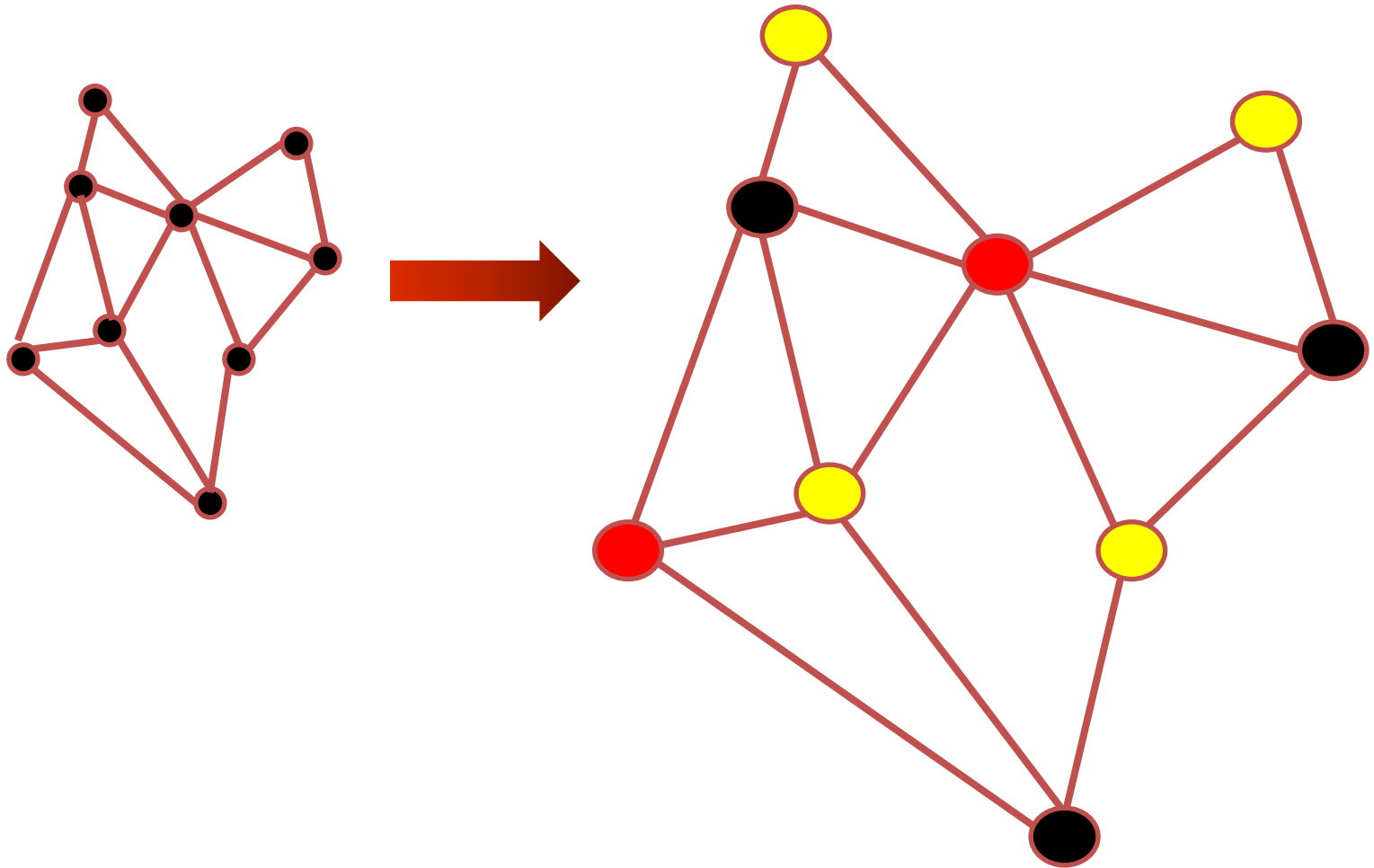
Himpunan Mahasiswa

Jadwal jam ke-1= $\{(D_1, M_1), (D_2, M_5), (D_3, M_4), (D_4, M_3)\}$, jam ke-2= $\{(D_1, M_2), (D_2, M_1), (D_3, M_5), (D_4, M_4)\}$, jam ke-3= $\{(D_1, M_3), (D_2, M_2), (D_3, M_1), (D_4, M_5)\}$, jam ke-4= $\{(D_1, M_4), (D_2, M_3), (D_3, M_2), (D_4, M_1)\}$, dan terakhir jam ke-5= $\{(D_1, M_5), (D_2, M_4), (D_3, M_3), (D_4, M_2)\}$.

Gambar 2a. Four Colour Theorem (US Map)
Guthrie's Problem, F. Guthrie 1852,
Ditulis oleh A. Cayley 1878

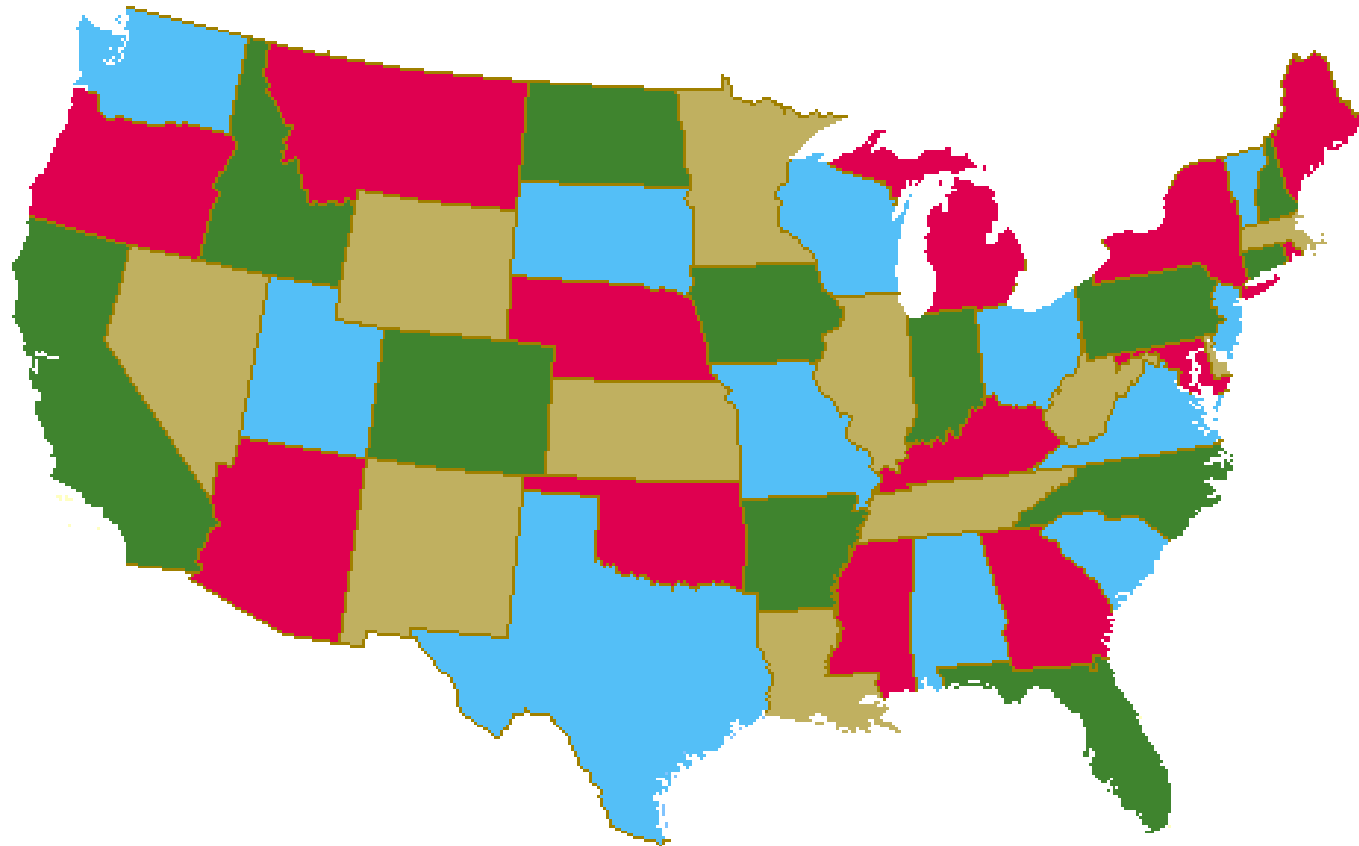


Gambar 2b. Proses Pewarnaan



Hanya membutuhkan tiga warna
Merah, Hitam dan Kuning

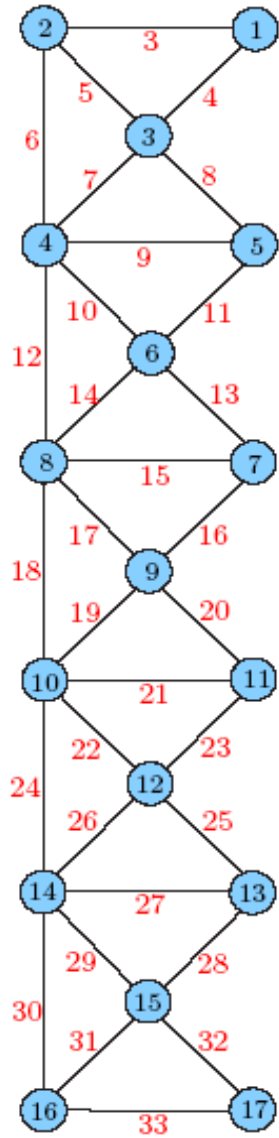
Gambar 2c. Four Colour Theorem (US Map)



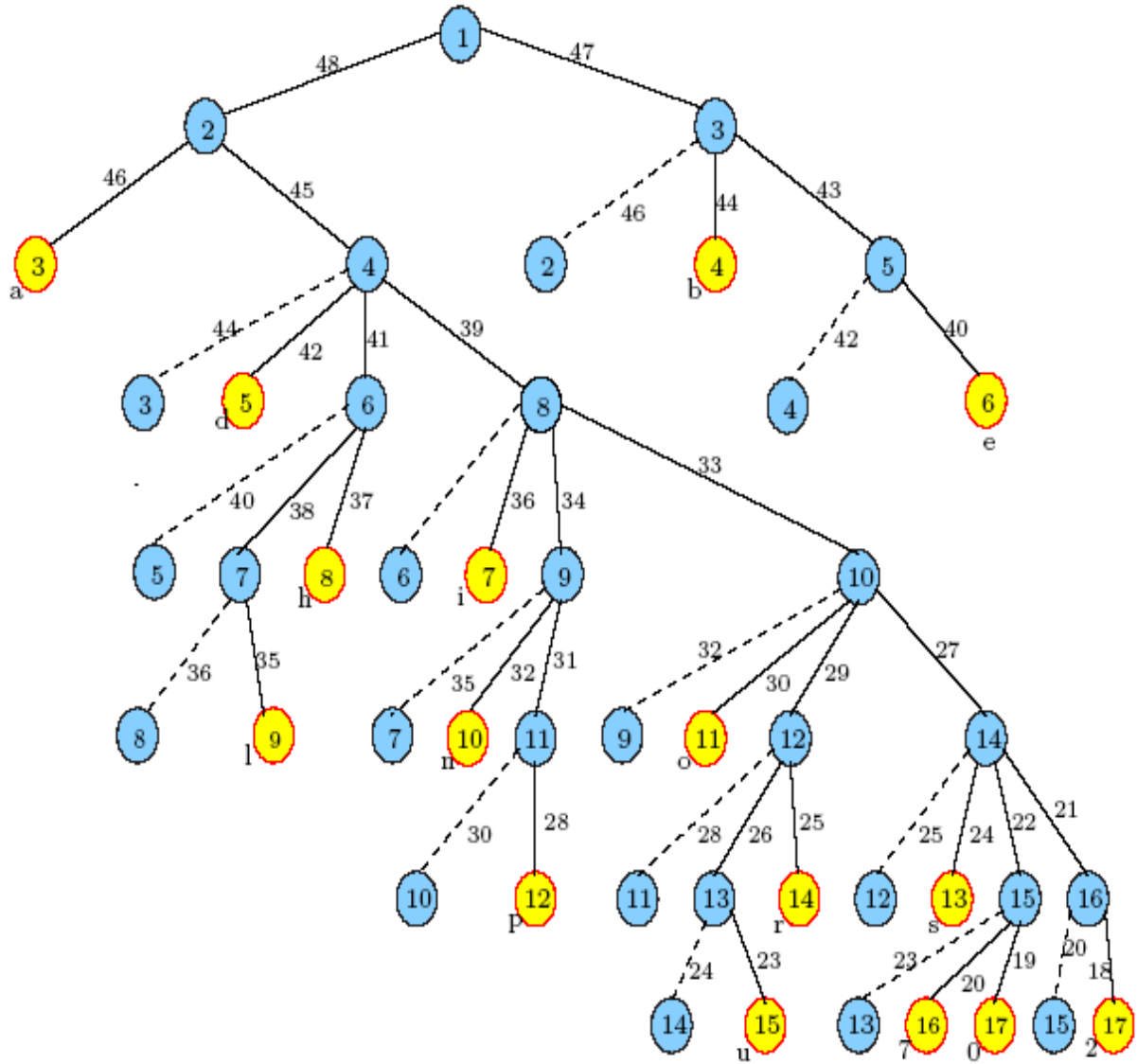
Gambar 2d. Peta Kabupaten Jember



Gambar 3. SEATL Graph



Gambar 4. Tree Diagram

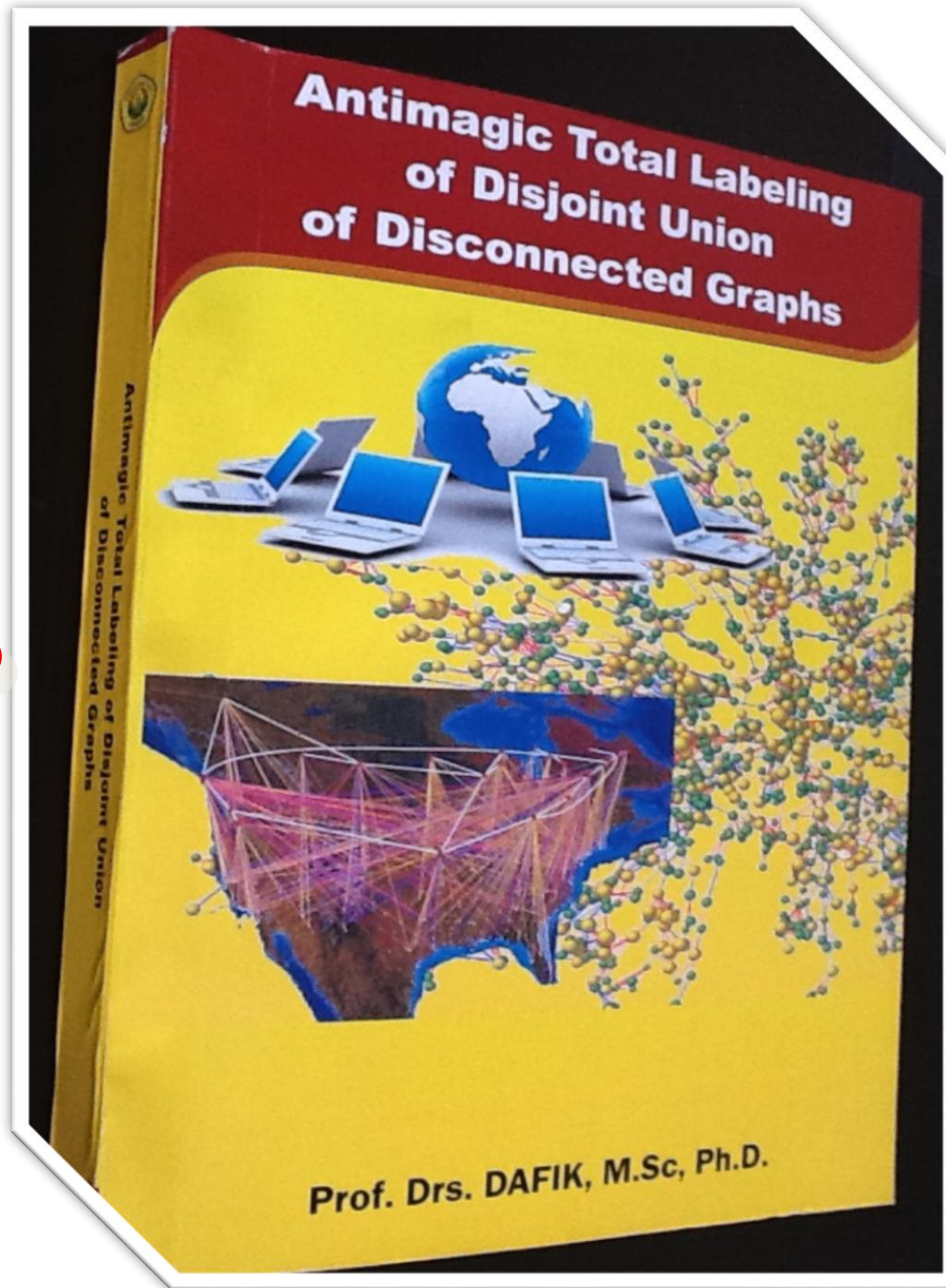


Kasus 3. “Perubahan PIN sudah diproses, PIN baru anda adalah 702222”.

Perubahan PIN sudah diproses, PIN baru anda adalah 702222:

```
100110001101001101110101100000111001011111001110010011011011001100011001
1011011111111101001100011010110101001111111110101001001101001011111100010
011011011001100011110001011010100100110001101011000001110001100100101001
001101001101110101001001101001100011010110101001111111110110011100100110
1101011000001110010111100110110111111111011100010011011010011011011100010
011011011100100111001101101100110001101010001011000111010101110110101011
101101010111011010101110
```

Binary Code dengan jumlah 415 bits atau $415/8 = 51,5$ byte

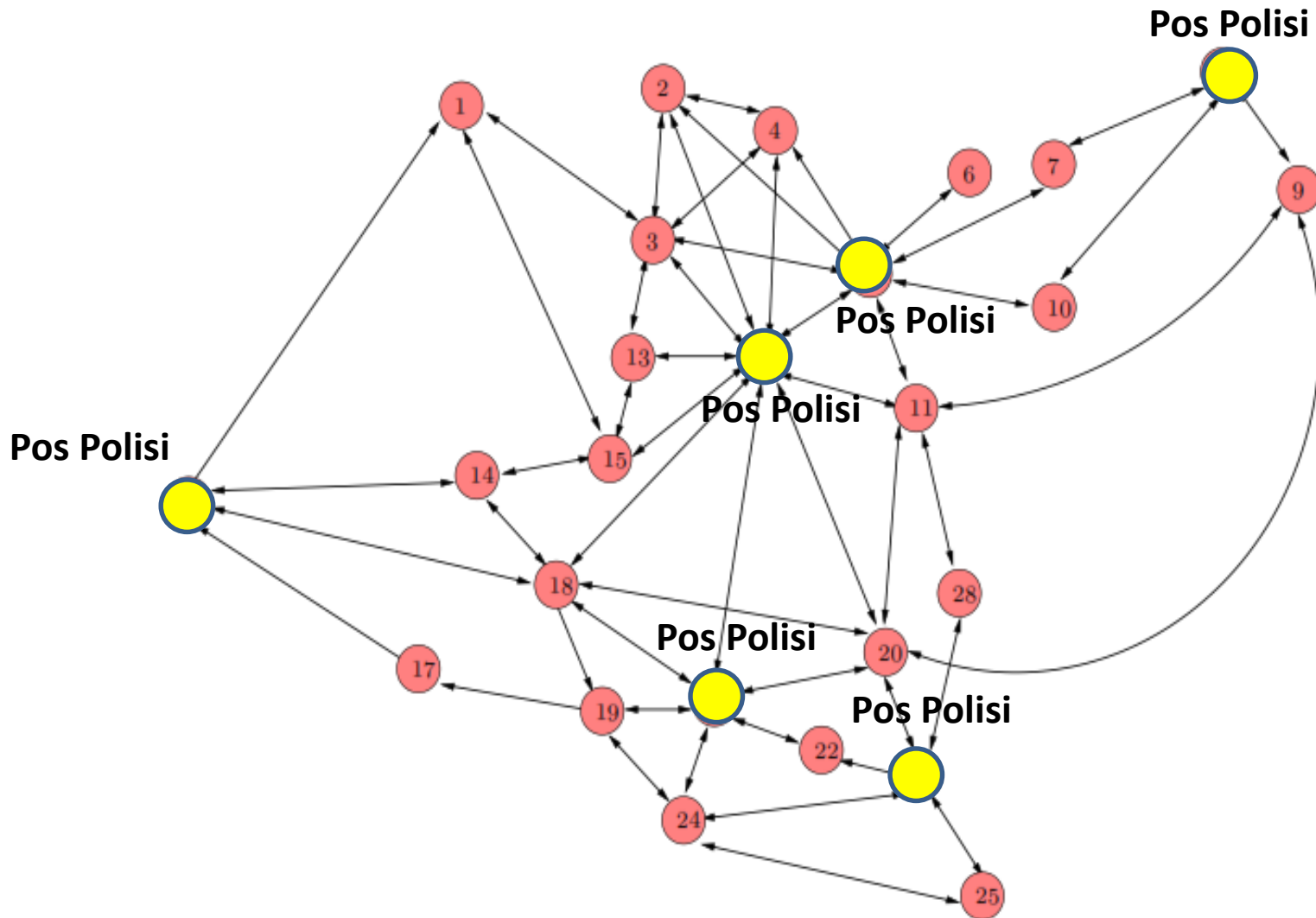


Gambar 4a. Buku

Gambar 5. Peta Jalan Kota Bangil

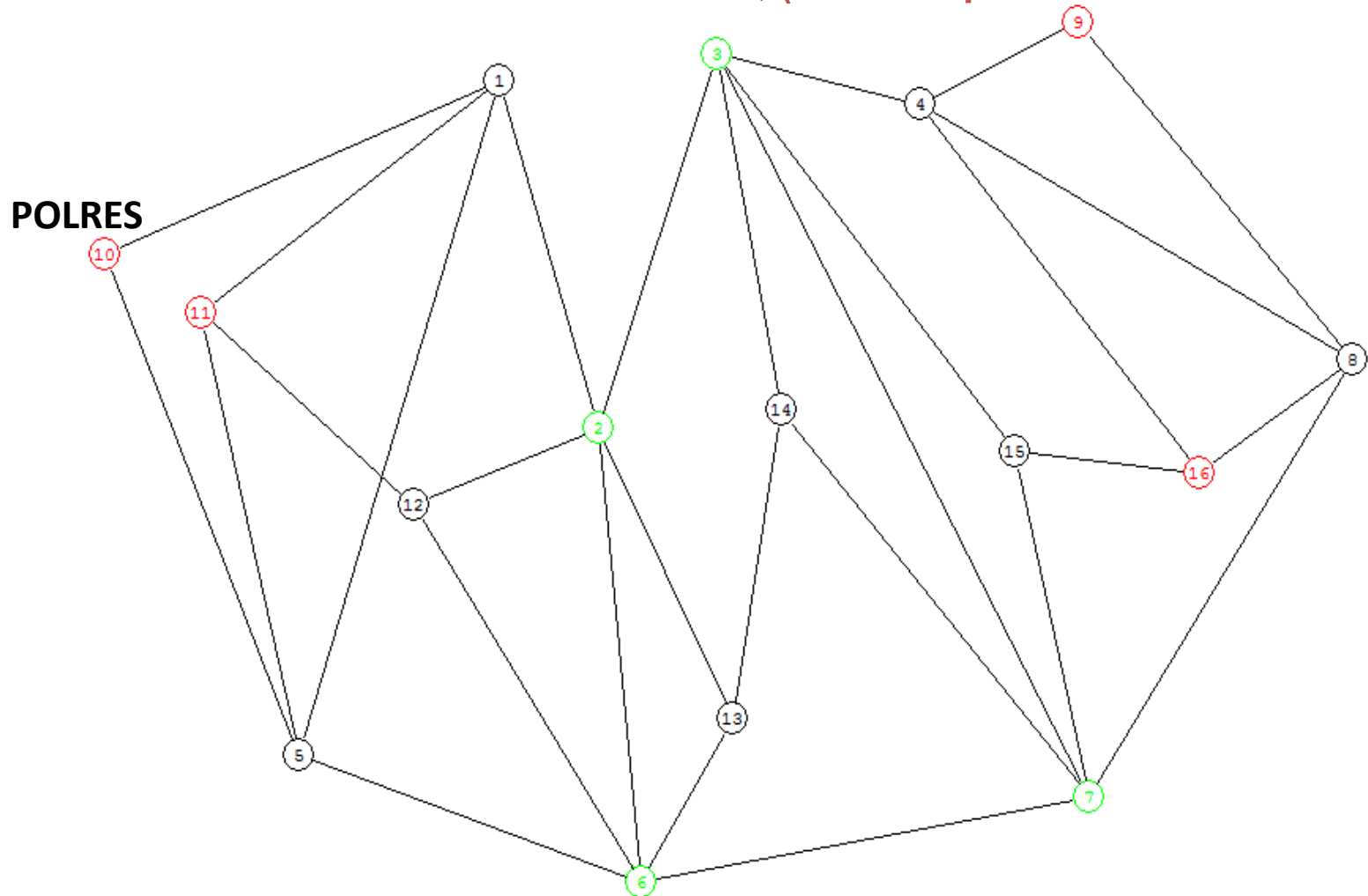


Gambar 6. Representasi Graf Jalan Kota Bangil



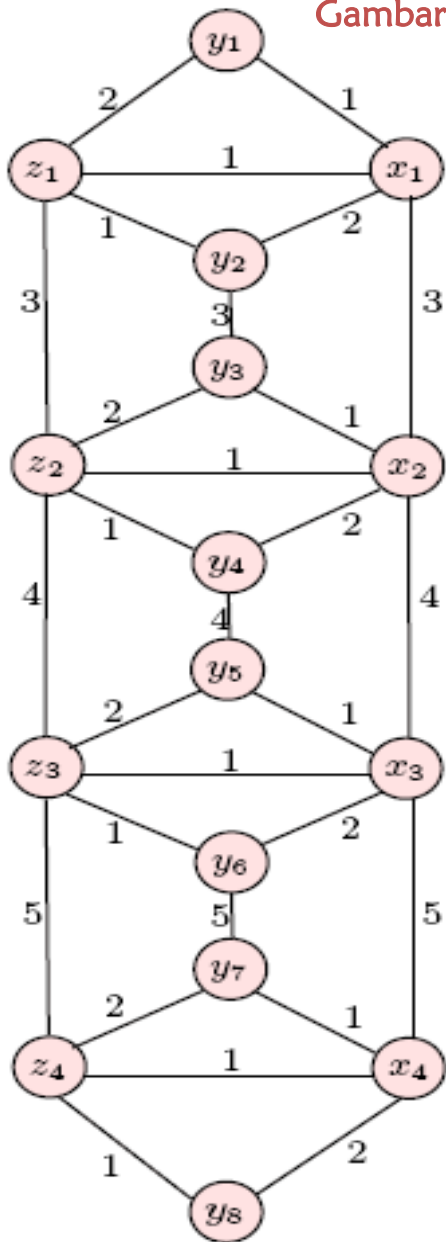
 Dominating Set

Gambar 7. Jalur distribusi soal-soal UN, (titik merepresentasikan sekolah)

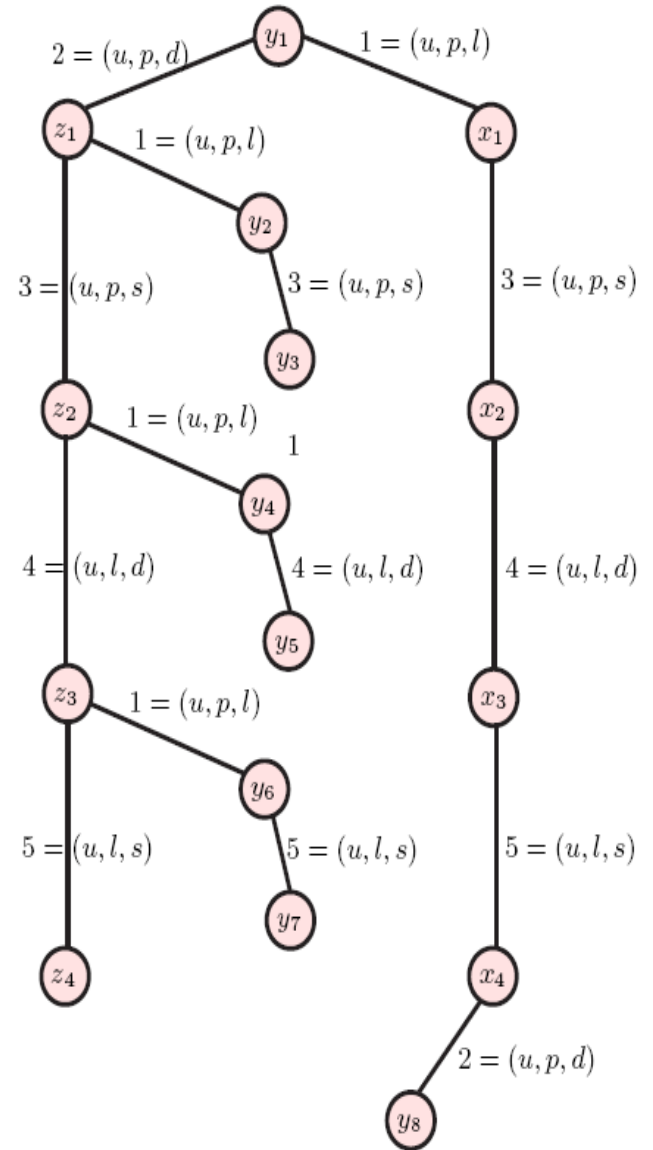


Tim pengawal seluruhnya adalah $\binom{5}{3}=10$ macam kombinasi, diantaranya adalah (u,p,l) , (u,p,d) , (u,p,s) , (p,l,d) , (p,l,s) , (l,d,s) , (u,l,d) , (u,l,s) , (u,d,s) , (p,d,s) .

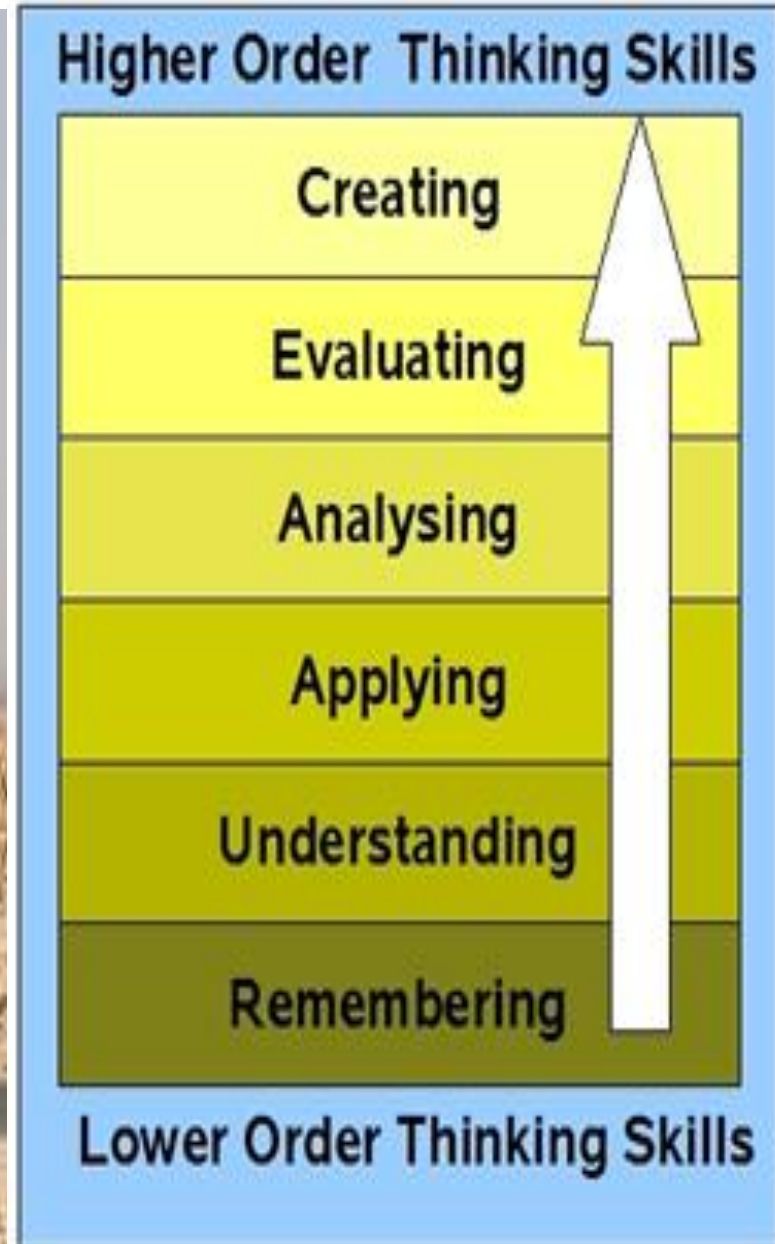
Gambar 8. Antimagic Labeling



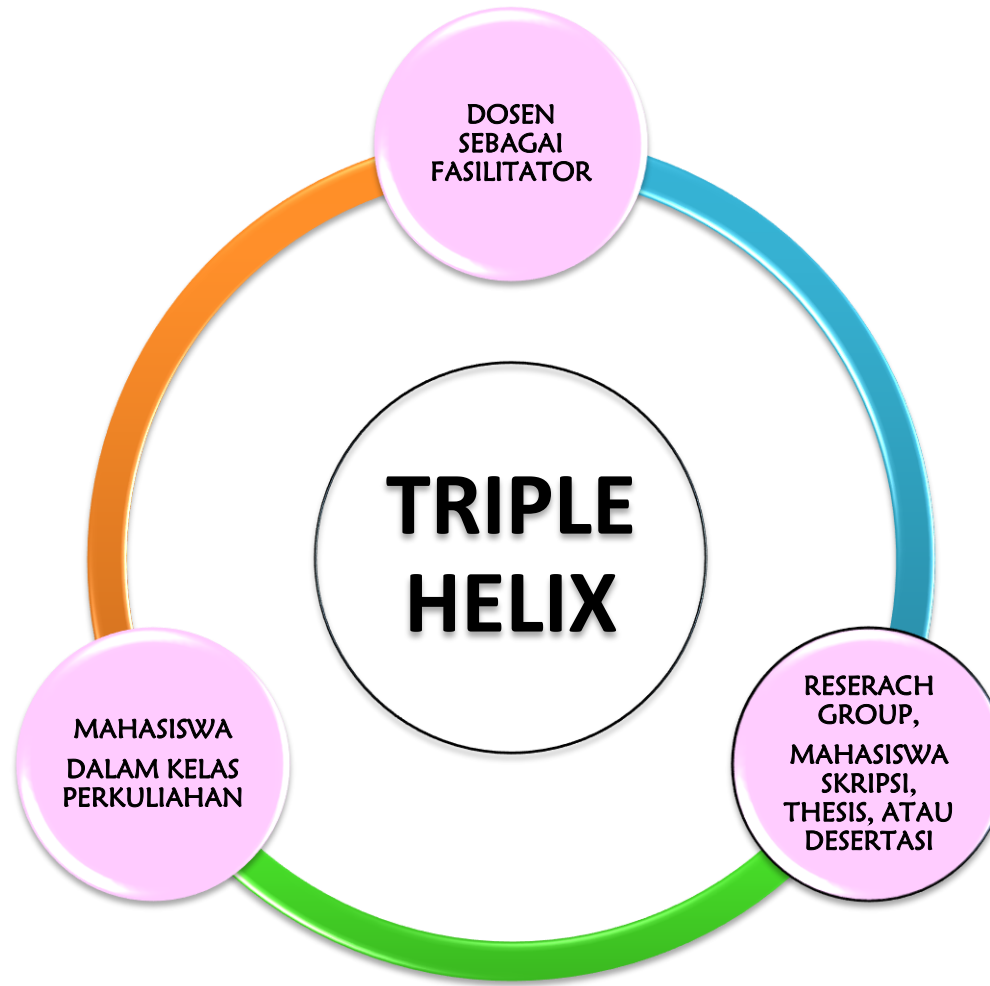
Gambar 9. Diagram Tree



Gambar 10. Taksonomi Bloom dalam Konteks HOTS



Gambar 11. Relasi Triple Helix dalam RBL



Gambar 12. Tahapan Pembelajaran Berbasis Riset

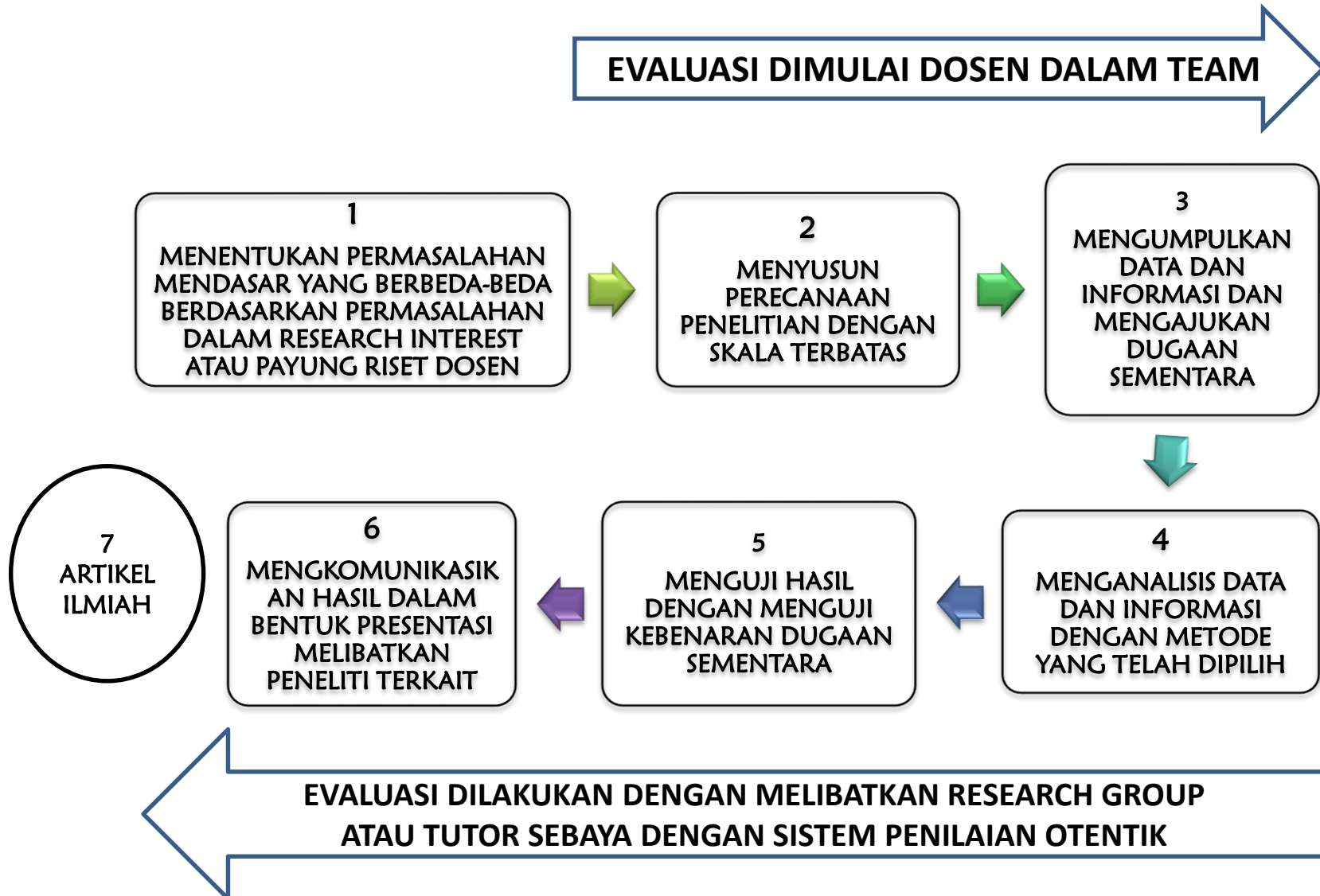
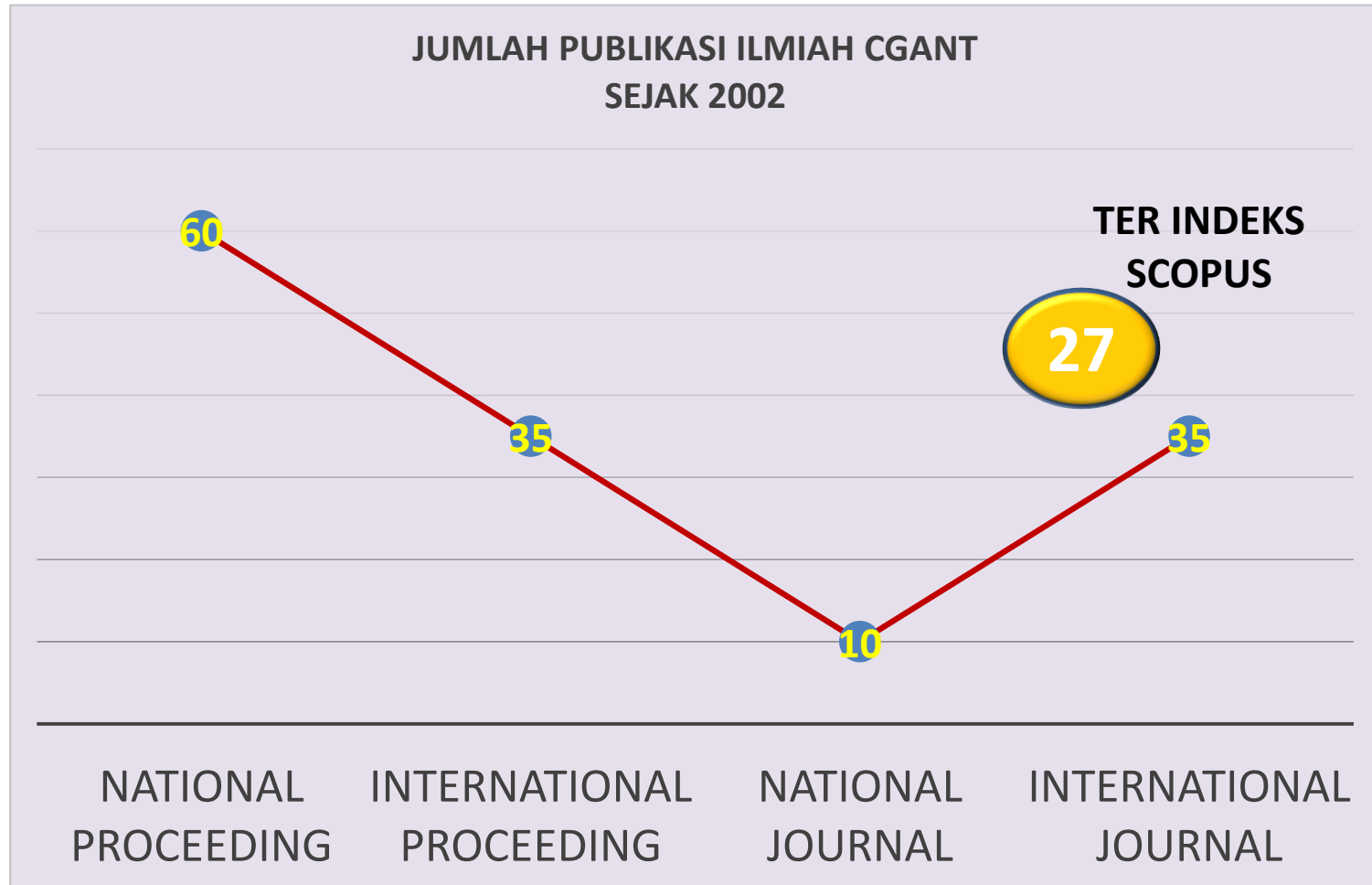


Foto 1. Melalui SK Rektor 5665/UN25/KP/2014



Gambar 13. Grafik Jumlah Publikasi CGANT



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Ranking of scientists in Indonesian Institutions according to their GSC public profiles

Second edition

This edition was built with data collected during the **fourth week of February 2015** from the public profiles of researchers working in **Indonesian** (Indonesia, Asia) institutions. It is a **BETA** Ranking of the scientists according to their declared (voluntarily) presence in the **Google Scholar Citations** database. We advise to those interested in appearing in future editions to sign into these databases, correcting and updating their public profiles.

There are still **MANY mistakes and gaps** in the list, so please contact us (isidro.aquillo@csic.es) if you discover any of the errors for solving them promptly.

The list consists of the **Top 500 profiles** (including former PhD students and no-longer members who signed papers in the past with this affiliation) ranked first by h-index in decreasing order and, when ties appear, then by the total number of citations as a secondary criteria.



Current edition: 4th week February 2015

Next edition: June 2015

RANK	NAME	INSTITUTION	H-INDEX	CITATIONS
29	Bambang Kuswandi	Universitas Jember	16	939
51	Slamin	Universitas Jember	13	558
144	Achmad Subagio	Universitas Jember	9	316
170	Bambang Sugiharto	Universitas Jember	8	480
453	Tatang Ary Gumanti	Universitas Jember	5	148
476	Dafik Dafik	Universitas Jember	5	117



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Graph Theory

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Vertex-magic total labelings of graphs

JA MacDougall, M Miller, Slammin, WD Wallis
Utilitas Mathematics 61, 3-21

123 * 2002



Dafik Dafik

Professor in Combinatorics and Graph Theory

Graph labeling, covering, colouring and Mathematics Education

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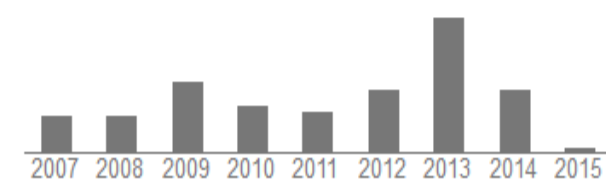
On super (a, d)-edge-antimagic total labeling of disconnected graphs

Dafik, M Mirka, J Ryan, M Bača
Discrete Mathematics 309 (15), 4909-4915

34 * 2009

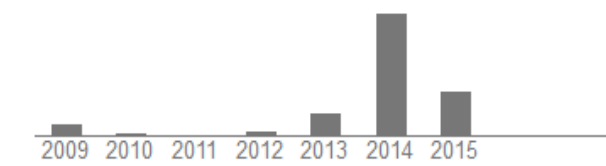
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i10-index	14	10



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