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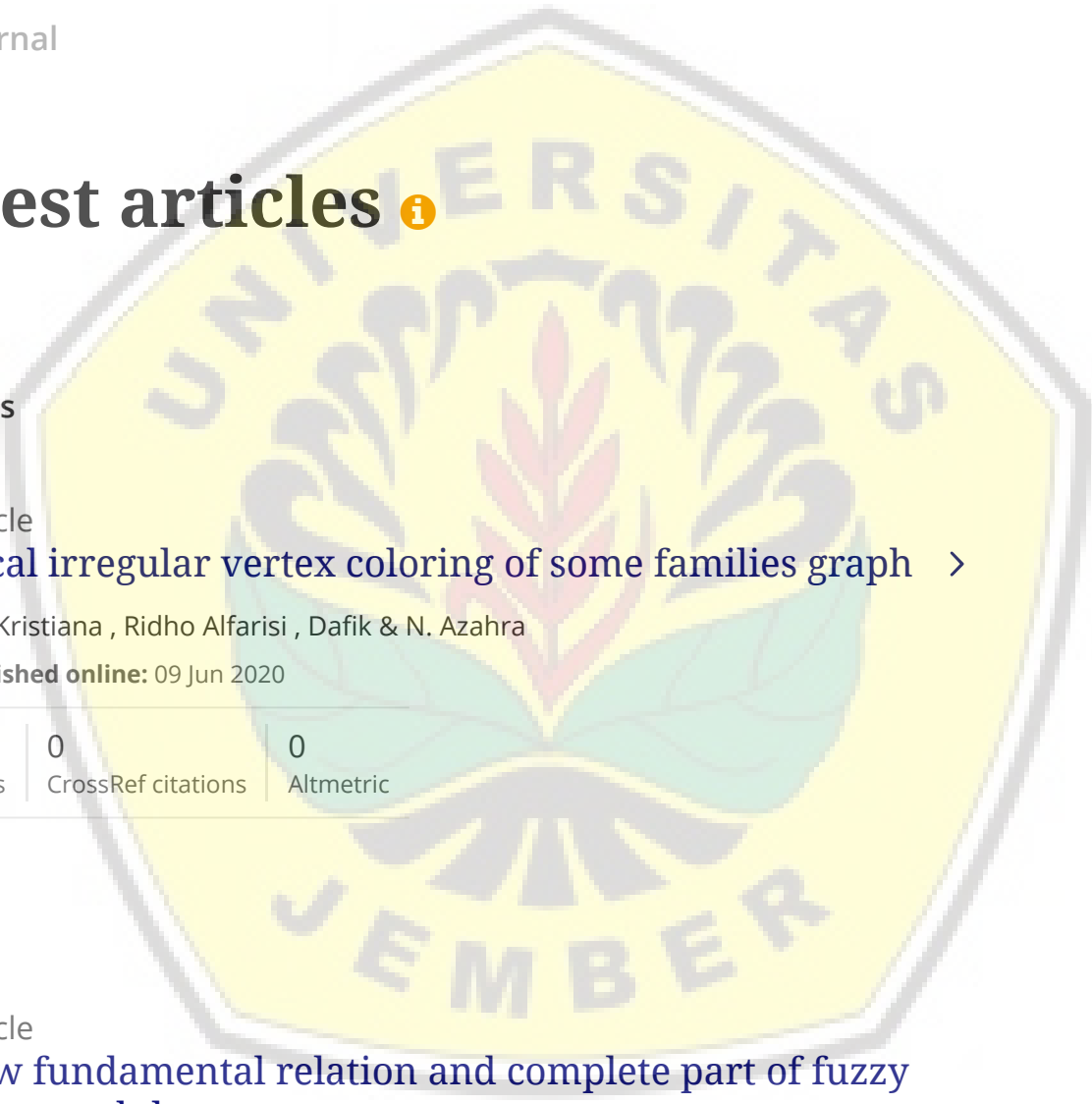
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Local irregular vertex coloring of some families graph

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Abstract

All graph in this paper is connected and simple graph. Let $d(u, v)$ be a distance between any vertex u and v in graph $G = (V, E)$. A function $l : V(G) \rightarrow \{1, 2, \dots, k\}$ is called vertex irregular k -labelling and $w : V(G) \rightarrow N$ where $w(u) = \sum_{v \in N(u)} l(v)$. If for every $uv \in E(G)$, $w(u) \neq w(v)$ and $opt(l) = \min(\max(l_i); l_i$ vertex irregular labelling) is called a local irregularity vertex coloring. The minimum cardinality of the largest label over all such local irregularity vertex coloring is called chromatic number local irregular, denoted by $\chi_{lis}(G)$. In this paper, we study about

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