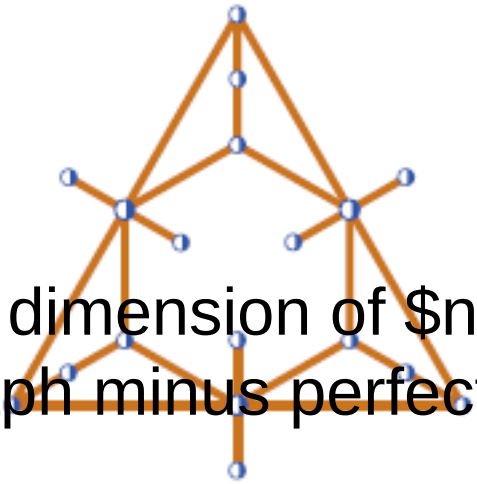
Bled'11 - 7th Slovenian International Conference on Graph Theory



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The metric dimension of n-complete partite graph minus perfect matching

Content :

A set of vertices W \textit{resolves} a graph G if every vertex in G is uniquely determined by its vector of distances to the vertices in W. \ The \textit{metric dimension }of G is the minimum cardinality of a resolving set of G. \ For $n\geq 3$, an n-complete partite graph $G(k_1, k_2, ..., k_n)$ is a graph whose vertex set V can be partitioned into n subsets $V_1, V_2, ...,V_n$, with $|V_i|=k_i \geq 3$, such that every edge of $G(k_1, k_2, ..., k_n)$ joins $V_1, V_2, ...,V_n$. \ Recently, we have determined the metric dimension of regular bipartite which is isomorph to a complete bipartite graph minus a perfect matching (Baca \emph{et al.}, Bull. Math. Soc. Sci. Math. Roumanie, 2011). \ Continuing our previous results, in this paper we determine the metric dimension of $G(k_1, k_2, ..., k_n)$ minus a perfect matching.

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