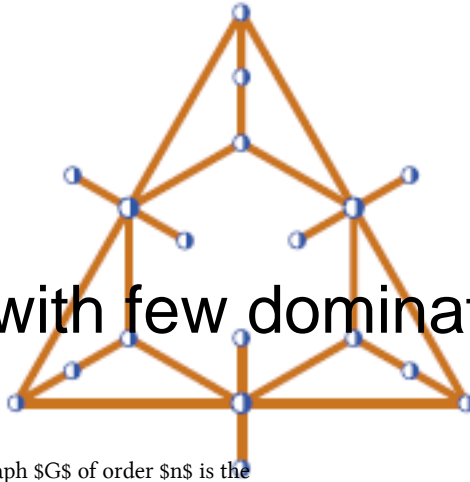


Bled'11 - 7th Slovenian International Conference on Graph Theory

Contribution ID : 48

Graphs with few domination roots



Content :

The domination polynomial of a graph G of order n is the polynomial $D(G,x) = \sum_{i=1}^n d(G,i) x^i$, where $d(G,i)$ is the number of dominating vertex sets of G with cardinality i .

A root of $D(G,x)$ is called a domination root of G . In this talk, we characterize graphs with at most four distinct domination roots. Finally we state some conjectures and open problems.

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Session classification : --not yet classified--

Track classification : General session

Type : Oral presentation