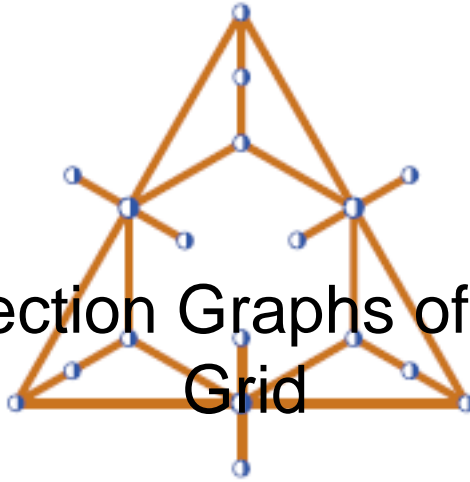


Bled'11 - 7th Slovenian International Conference on Graph Theory

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On Intersection Graphs of Paths in a Grid



Content :

Golumbic et al. recently defined the so-called EPG graphs and VPG graphs: EPG graphs are Edge intersection graphs of Paths in a Grid and VPG graphs are Vertex intersection graphs of Paths in a Grid. We investigate the subclasses in which we limit the number of bends per path: 1 for EPG graphs which gives us the B_1 -EPG graphs; 0 for VPG graphs which gives us the B_0 -VPG graphs. We present some characterization of subclasses of chordal graphs which are B_1 -EPG resp. B_0 -VPG graphs.

This is joint work with M. Golumbic and A. Asinowski.

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