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An Optimality Criterion for the Crossing Number

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Abstract

A sufficient condition is given that a certain drawing minimizes the crossing number. The condition is in terms of intersections in an arbitrary set system related to the drawing, and is like a correlation inequality.

Keywords: Graph drawing, crossing number.

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Optimalnostni kriterij za presečno število

Povzetek

Podamo zadosten pogoj za to, da je v določeni risbi danega grafa število presečišč minimalno. Pogoj se nanaša na preseke v poljubnem sistemu množic, povezanih z risbo, in spominja na korelacijsko neenakost.

Ključne besede: Risba grafa, presečno število.