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Conferencia

por

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título

“Deciding Monotonicity of Good Drawings of the Complete Graph”

Abstract:

In the presented work, we investigate x -monotone drawings of complete graphs. We are interested in good drawings of the complete graph. In a good drawing of a graph no two edges share more than one point (either a common end vertex or a crossing) and no edge crosses itself. Thus, good drawings are a generalization of geometric graphs. An important motivation to focus the attention on good drawings is that every crossing-minimal drawing of a graph is good. We describe an $O(n^5)$ time algorithm for deciding whether a good drawing of the complete graph on n vertices, given in terms of its rotation system, can be re-drawn using only x -monotone arcs. (Joint work with O. Aichholzer, T. Hackl, G. Salazar, and B. Vogtenhuber).

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