McQuillan, Dan; Pan, Shengjun; Richter, R. Bruce
On the crossing number of $K_{13}$. (English) [Zbl 1319.05045]

Summary: Since the crossing number of $K_{12}$ is now known to be 150, it is well-known that simple counting arguments and Kleitman’s parity theorem for the crossing number of $K_{2n+1}$ combine with a specific drawing of $K_{13}$ to show that the crossing number of $K_{13}$ is one of the numbers in \{217, 219, 221, 223, 225\}. We show that the crossing number is not 217.

MSC:
05C10 Planar graphs; geometric and topological aspects of graph theory

Keywords:
crossing number; complete graph; equivalent drawings; normal deficiency property; $K_{13}$

Full Text: DOI

References:
[5] D. McQuillan, R.B. Richter, On the crossing number of $K_{\text{\textit{n}}}^3$ without computer assistance, J. Graph Theory, to appear. · Zbl 1342.05091
[6] Pan, S.; Richter, R. B., The crossing number of $K_{11}$ is 100, J. Graph Theory, 56, 2, 128-134, (2007) · Zbl 1128.05018

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