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Editorial

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This special issue contains selected papers from the JCDCG 2000 (The Japan Conference on Discrete and Computational Geometry 2000) which was held 22–25 November 2000 at Tokai University, Tokyo, Japan. The conference series JCDCG provides a venue for researchers and practitioners of discrete and computational geometry to present and discuss their work. From among forty six contributed talks and eleven invited talks, five representative papers have been chosen from the conference.

In the first paper, Joseph O'Rourke defines a slice curve as the intersection of a plane with the surface of a polytope and proves that such a curve has a development without self-intersection on a plane. The second paper by Takeshi Tokuyama gives efficient algorithms for constructing a bridge between two convex regions in a fixed dimensional space so that the diameter of the bridged region is minimized. Peter Brass presents efficient algorithms for solving the problem of determining a symmetric subset of maximum cardinality among n points in the third paper, while Jin Akiyama, Gisaku Nakamura, Akihiro Nozaki, Ken'ichi Ozawa and Toshinori Sakai discuss a purely recursive dissection for a sequentially n-divisible square and prove some optimality of it in the fourth paper. Finally, the fifth paper by Hiro Ito discusses the sum of edge lengths of a multigraph drawn on a convex polygon and notes that three different partial orders on local transformations are equivalent.

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