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Computational geometry emerged from the field of algorithms design and analysis in the late 1970s. It has grown into a recognized discipline with its own journals, conferences, and a large community of active researchers.

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solutions and techniques from computational geometry are related to particular applications in robotics, graphics, CAD/CAM, and geographic information For students this motivation will be especially welcome. insights in computational geometry are used to provide solutions that are both

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To show the wide applicability of computational geometry, the problems were taken from various application areas: robotics, computer graphics, CAD/CAM, and geographic information systems. You should not expect ready-to-implement software solutions for major problems in the application areas.

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Other important applications of computational geometry include robotics (motion planning and visibility problems), geographic information systems (GIS) (geometrical location and search, route planning), integrated circuit design (IC geometry design and verification), computer-aided engineering (CAE) (mesh generation), computer vision (3D reconstruction).

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Computational Geometry is a forum for research in theoretical and applied aspects of computational geometry. The journal publishes fundamental research in all areas of the subject, as well as disseminating information on the applications, techniques, and use of computational geometry.

Computational Geometry - Journal - Elsevier

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This all-new introduction to computational geometry is a textbook for high-level undergraduate and low-level graduate courses. The focus is on algorithms and hence the book is well suited for students in computer science and engineering. Motivation is provided from the application areas -- all solutions and techniques from computational geometry are related to particular applications in robotics, graphics, CAD/CAM, and geographic information systems.

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