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| Nota di contenuto | Constructing Two-Dimensional Voronoi Diagrams via Divide-and-Conquer of Envelopes in Space -- Approximate Shortest Path Queries Using Voronoi Duals -- On the Triangle-Perimeter Two-Site Voronoi Diagram -- Voronoi Graph Matching for Robot Localization and Mapping -- Properties and an Approximation Algorithm of Round-Tour Voronoi Diagrams -- Protein-Ligand Docking Based on Beta-Shape -- Kinetic Line Voronoi Operations and Their Reversibility -- High Quality Visual Hull Reconstruction by Delaunay Refinement -- Geosimulation of Geographic Dynamics Based on Voronoi Diagram. |
| Sommario/riassunto | The 9th issue of the Transactions on Computational Science journal, edited by François Anton, is devoted to the subject of Voronoi diagrams in science and engineering. The 9 papers included in the issue constitute extended versions of selected papers from the International Symposium on Voronoi Diagrams, held in Copenhagen, Denmark, June 23-36, 2009. Topics covered include: divide and conquer construction of Voronoi diagrams; new generalized Voronoi diagrams or properties of existing generalized Voronoi diagrams; and applications of Voronoi |

diagrams and their duals in graph theory, computer graphics, bioinformatics, and spatial process simulation.