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Arrangements of curves constitute fundamental structures that have been intensively studied in computational geometry. Arrangements have numerous applications in a wide range of areas - examples include geographic information systems, robot motion planning, statistics, computer-assisted surgery and molecular biology.

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CGAL Arrangements and Their Applications: A Step-by-Step Guide, ISSN 1866-6795, Efi Fogel, Dan Halperin, Ron Wein, Springer, 2012, 3642172830, 9783642172830,. Arrangements of curves constitute fundamental structures that have been intensively studied in computational geometry.

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CGAL Arrangements and Their Applications. The Cover: The illustration on the cover of the book depicts an arrangement of Fibonacci spirals, which govern the layout of sunflower seeds. This is explained in detail in Exercise 5.7.

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Arrangements are ubiquitous in the computational-geometry literature and have many applications; see, e.g.,. The curves in can intersect each other (a single curve may also be self-intersecting or may be comprised of several disconnected branches) and are not necessarily -monotone. W

CGAL 5.1.1 - 2D Arrangements: User Manual

We present many applications of arrangements to problems in motion planning, visualization, range searching, molecular modeling, and geometric optimization. Some results involving planar arrangements of arcs have been presented in Chapter 1 of this Handbook, and are extended in this chapter to higher dimensions.

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CGAL Arrangements and Their Applications A Step-by-Step Guide Bearbeitet von Efi Fogel, Dan Halperin, Ron Wein 1. Auflage 2012. Buch. xix, 293 S. Hardcover ISBN 978 3 642 17282 3 Format (B x L): 21 x 27,9 cm Gewicht: 1023 g Weitere Fachgebiete > EDV, Informatik > Programmiersprachen: Methoden > Algorithmen & Datenstrukturen Zu Inhaltsverzeichnis

CGAL Arrangements and Their Applications - ReadingSample

Pankaj K. Agarwal and Micha Sharir. Arrangements and their applications. In Jörg-Rüdiger Sack and Jorge Urrutia, editors, Handbook of Computational Geometry, pages 49-119. Elsevier Science Publishers B.V. North-Holland, Amsterdam, 2000. [2] Eric Berberich, Arno Eigenwillig, Michael Hemmer, Susan Hert, Kurt Mehlhorn, and Elmar Schömer.

CGAL 5.1 - 2D Arrangements: Bibliography

The CGAL Arrangement Package. Constructs, maintains, modifies, traverses, queries, and presents arrangements on two-dimensional parametric surfaces. Robust and exact. All inputs are handled correctly (including degenerate input). Exact number types are used to achieve exact results. Generic - easy to interface, extend, and adapt

2D Maps in CGAL and Applications - CGL at Tel Aviv ...

This book shows how to use the CGAL two-dimensional arrangement package, first using small example programs, then describing programs for solving real-world problems. Later chapters are dedicated to large-scale applications written on top of CGAL arrangements.Geometry and Computing: CGAL Arrangements

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