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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

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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

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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

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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 and Their Applications: A Step-By-Step Guide ...

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