1. Record Nr. UNISA996466312303316

Titolo	Computational Geometry [[electronic resource]] : XIV Spanish Meeting on Computational Geometry, EGC 2011, Dedicated to Ferran Hurtado on the Occasion of His 60th Birthday, Alcalá de Henares, Spain, June 27-30, 2011, Revised Selected Papers / / edited by Alberto Márquez, Pedro Ramos, Jorge Urrutia
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2012
ISBN	3-642-34191-8
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (X, 283 p. 176 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 7579
Disciplina	516.00285
Soggetti	Algorithms Computer science—Mathematics Discrete mathematics Computer graphics Artificial intelligence—Data processing Computer science Computer networks Discrete Mathematics in Computer Science Computer Graphics Data Science Theory of Computation Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	On 5-Gons and 5-Holes.- On Reversibility among Parallelohedra -- A History of Flips in Combinatorial Triangulations.- Open Guard Edges and Edge Guards in Simple Polygons -- String-Wrapped Rotating Disks -- The Chromatic Number of the Convex Segment Disjointness Graph -- Continuous Flattening of Convex Polyhedra -- Convexifying Monotone Polygons while Maintaining Internal Visibility -- On the Number of Radial Orderings of Colored Planar Point Sets -- Notes on

the Twisted Graph.-Locating a Service Facility and a Rapid Transit Line -- Simultaneously Flippable Edges in Triangulations.- Spiral Serpentine Polygonization of a Planar Point Set -- The 1-Center and 1-Highway Problem -- Compact Grid Representation of Graphs -- On the Heaviest Increasing or Decreasing Subsequence of a Permutation, and Paths and Matchings on Weighted Point Sets -- A Generalization of the Source Unfolding of Convex Polyhedra -- Large Angle Crossing Drawings of Planar Graphs in Subquadratic Area -- Connecting Red Cells in a Bicolour Voronoi Diagram -- Covering Islands in Plane Point Sets -- Rectilinear Convex Hull with Minimum Area -- Separated Matchings and Small Discrepancy Colorings -- A Note on the Number of Empty Triangles -- Meshes Preserving Minimum Feature Size -- Geometric Graphs in the Plane Lattice. On Reversibility among Parallelohedra -- A History of Flips in Combinatorial Triangulations.- Open Guard Edges and Edge Guards in Simple Polygons -- String-Wrapped Rotating Disks -- The Chromatic Number of the Convex Segment Disjointness Graph -- Continuous Flattening of Convex Polyhedra -- Convexifying Monotone Polygons while Maintaining Internal Visibility -- On the Number of Radial Orderings of Colored Planar Point Sets -- Notes on the Twisted Graph.-Locating a Service Facility and a Rapid Transit Line -- Simultaneously Flippable Edges in Triangulations.- Spiral Serpentine Polygonization of a Planar Point Set -- The 1-Center and 1-Highway Problem -- Compact Grid Representation of Graphs -- On the Heaviest Increasing or Decreasing Subsequence of a Permutation, and Paths and Matchings on Weighted Point Sets -- A Generalization of the Source Unfolding of Convex Polyhedra -- Large Angle Crossing Drawings of Planar Graphs in Subquadratic Area -- Connecting Red Cells in a Bicolour Voronoi Diagram -- Covering Islands in Plane Point Sets -- Rectilinear Convex Hull with Minimum Area -- Separated Matchings and Small Discrepancy Colorings -- A Note on the Number of Empty Triangles -- Meshes Preserving Minimum Feature Size -- Geometric Graphs in the Plane Lattice.

Sommario/riassunto

This Festschrift volume is published in honor of Ferran Hurtado on the occasion of his 60th birthday; it contains extended versions of selected communications presented at the XIV Spanish Meeting on Computational Geometry, held at the University of Alcalá, Spain, in June 2011. Ferran Hurtado has played a central role in the Spanish community of Computational Geometry since its very beginning, and the quantity and quality of the international participants in the conference is an indisputable proof of his relevance in the international level. The 26 revised full papers were carefully reviewed and selected from numerous submissions. The papers present original research in computational geometry, in its broadest sense. Topics included are discrete and combinatorial geometry, linear programming applied to geometric problems, geometric algorithms and data structures, theoretical foundations of computational geometry, questions of interest in the implementation of geometric algorithms, and applications of computational geometry.