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# Shape Interrogation for Computer Aided Design and Manufacturing

 Springer

# Shape Interrogation For Computer Aided Design And Manufacturing

**Jean-Luc Mari, Franck Hétroy-  
Wheeler, Gérard Subsol**



## **Shape Interrogation For Computer Aided Design And Manufacturing:**

**Shape Interrogation for Computer Aided Design and Manufacturing** Nicholas M. Patrikalakis, Takashi Maekawa, 2009-11-27 Shape interrogation is the process of extraction of information from a geometric model. It is a fundamental component of Computer Aided Design and Manufacturing CAD/CAM systems. The authors focus on shape interrogation of geometric models bounded by free form surfaces. Free form surfaces, also called sculptured surfaces, are widely used in the bodies of ships, automobiles, and aircraft, which have both functionality and attractive shape requirements. Many electronic devices as well as consumer products are designed with aesthetic shapes which involve free form surfaces. This book provides the mathematical fundamentals as well as algorithms for various shape interrogation methods, including nonlinear polynomial solvers, intersection problems, differential geometry of intersection curves, distance functions, curve and surface interrogation, umbilics, and lines of curvature, geodesics, and offset curves and surfaces. This book will be of interest both to graduate students and professionals.

**Shape Interrogation for Computer Aided Design and Manufacturing** Nicholas M. Patrikalakis, Takashi Maekawa, 2010-05-03 Shape interrogation is the process of extraction of information from a geometric model. It is a fundamental component of Computer Aided Design and Manufacturing CAD/CAM systems. This book provides a bridge between the areas of geometric modeling and solid modeling. Apart from the differential geometry topics covered, the entire book is based on the unifying concept of recasting all shape interrogation problems to the solution of a nonlinear system. It provides the mathematical fundamentals as well as algorithms for various shape interrogation methods, including nonlinear polynomial solvers, intersection problems, differential geometry of intersection curves, distance functions, curve and surface interrogation, umbilics, and lines of curvature and geodesics.

**Reliable Implementation of Real Number Algorithms: Theory and Practice** Peter Hertling, Christoph M. Hoffmann, Wolfram Luther, Nathalie Revol, 2008-08-28 This book constitutes the revised papers of the International Seminar on Reliable Implementation of Real Number Algorithms held at Dagstuhl Castle, Germany, in January 2006. The seminar was intended to stimulate an exchange of ideas between the different communities that deal with the problem of reliable implementation of real number algorithms. Topics included formal proofs, software libraries, systems and platforms, as well as computational geometry and solid modelling.

**Computational Science - ICCS 2003. Part 1.** Peter Sloot, 2003-05-22 The four volume set LNCS 2657, LNCS 2658, LNCS 2659, and LNCS 2660 constitutes the refereed proceedings of the Third International Conference on Computational Science, ICCS 2003, held concurrently in Melbourne, Australia, and in St. Petersburg, Russia, in June 2003. The four volumes present more than 460 reviewed contributed and invited papers and span the whole range of computational science, from foundational issues in computer science and algorithmic mathematics to advanced applications in virtually all application fields, making use of computational techniques. These proceedings give a unique account of recent results in the field.

**Computational Methods for Algebraic Spline Surfaces** Tor Dokken, Bert Jüttler, 2006-05-24 This volume

contains revised papers that were presented at the international workshop entitled Computational Methods for Algebraic Spline Surfaces COMPASS which was held from September 29 to October 3 2003 at Schlo Weinberg Kefermarkt Austria The workshop was mainly devoted to approximate algebraic geometry and its applications The organizers wanted to emphasize the novel idea of approximate implicitization that has strengthened the existing link between CAD CAGD Computer Aided Geometric Design and classical algebraic geometry The existing methods for exact implicitization i.e. for conversion from the parametric to an implicit representation of a curve or surface require exact arithmetic and are too slow and too expensive for industrial use Thus the duality of an implicit representation and a parametric representation is only used for low degree algebraic surfaces such as planes spheres cylinders cones and toroidal surfaces On the other hand this duality is a very useful tool for developing efficient algorithms Approximate implicitization makes this duality available for general curves and surfaces The traditional exact implicitization of parametric surfaces produce global representations which are exact everywhere The surface patches used in CAD however are always defined within a small box only they are obtained for a bounded parameter domain typically a rectangle or in the case of trimmed surface patches a subset of a rectangle Consequently a globally exact representation is not really needed in practice

### **Computational Science and Its**

**Applications - ICCSA 2004** Antonio Laganà, Marina L. Gavrilova, Vipin Kumar, Youngsong Mun, C.J. Kenneth Tan, Osvaldo Gervasi, 2004-05-21 The natural mission of Computational Science is to tackle all sorts of human problems and to work out intelligent automata aimed at alleviating the burden of working out suitable tools for solving complex problems For this reason Computational Science though originating from the need to solve the most challenging problems in science and engineering computational science is the key player in the fight to gain fundamental advances in astronomy biology chemistry environmental science physics and several other scientific and engineering disciplines is increasingly turning its attention to all fields of human activity In all activities in fact intensive computation information handling knowledge synthesis the use of ad hoc devices etc increasingly need to be exploited and coordinated regardless of the location of both the users and the various and heterogeneous computing platforms As a result the key to understanding the explosive growth of this discipline lies in two adjectives that more and more appropriately refer to Computational Science and its applications interoperable and ubiquitous Numerous examples of ubiquitous and interoperable tools and

applications are given in the present four LNCS volumes containing the contributions delivered at the 2004 International Conference on Computational Science and its Applications ICCSA 2004 held in Assisi Italy May 14-17 2004

### **Geometric and**

**Topological Mesh Feature Extraction for 3D Shape Analysis** Jean-Luc Mari, Franck Hétroy-Wheeler, Gérard

Subsol, 2020-01-02 Three dimensional surface meshes are the most common discrete representation of the exterior of a virtual shape Extracting relevant geometric or topological features from them can simplify the way objects are looked at help with their recognition and facilitate description and categorization according to specific criteria This book adopts the point of

view of discrete mathematics the aim of which is to propose discrete counterparts to concepts mathematically defined in continuous terms It explains how standard geometric and topological notions of surfaces can be calculated and computed on a 3D surface mesh as well as their use for shape analysis Several applications are also detailed demonstrating that each of them requires specific adjustments to fit with generic approaches The book is intended not only for students researchers and engineers in computer science and shape analysis but also numerical geologists anthropologists biologists and other scientists looking for practical solutions to their shape analysis understanding or recognition problems

**Shape Analysis and Structuring** Leila de Floriani, Michela Spagnuolo, 2007-12-24 With a lot of recent developments in the field this much needed book has come at just the right time It covers a variety of topics related to preserving and enhancing shape information at a geometric level The contributors also cover subjects that are relevant to effectively capturing the structure of a shape by identifying relevant shape components and their mutual relationships

**Advances in Swarm and Computational Intelligence** Ying Tan, Yuhui Shi, Fernando Buarque, Alexander Gelbukh, Swagatam Das, Andries Engelbrecht, 2015-06-01 This book and its companion volumes LNCS volumes 9140 9141 and 9142 constitute the proceedings of the 6th International Conference on Swarm Intelligence ICSI 2015 held in conjunction with the Second BRICS Congress on Computational Intelligence CCI 2015 held in Beijing China in June 2015 The 161 revised full papers presented were carefully reviewed and selected from 294 submissions The papers are organized in 28 cohesive sections covering all major topics of swarm intelligence and computational intelligence research and development such as novel swarm based optimization algorithms and applications particle swarm optimization ant colony optimization artificial bee colony algorithms evolutionary and genetic algorithms differential evolution brain storm optimization algorithm biogeography based optimization cuckoo search hybrid methods multi objective optimization multi agent systems and swarm robotics Neural networks and fuzzy methods data mining approaches information security automation control combinatorial optimization algorithms scheduling and path planning machine learning blind sources separation swarm interaction behavior parameters and system optimization neural networks evolutionary and genetic algorithms fuzzy systems forecasting algorithms classification tracking analysis simulation image and texture analysis dimension reduction system optimization segmentation and detection system machine translation virtual management and disaster analysis

Mathematical Software - ICMS 2006 Andres Iglesias, Nobuki Takayama, 2006-08-24 This book constitutes the refereed proceedings of the Second International Congress on Mathematical Software ICMS 2006 The book presents 45 revised full papers carefully reviewed and selected for presentation The papers are organized in topical sections on new developments in computer algebra packages interfacing computer algebra in mathematical visualization software for algebraic geometry and related topics number theoretical software methods in computational number theory free software for computer algebra and general issues

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