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Solving Geometric Constraint Systems A Case Study In Kinematics

Ravi Janardan, Michiel Smid, Debasish Dutta

Solving Geometric Constraint Systems A Case Study In Kinematics:

Solving Geometric Constraint Systems Glenn A. Kramer, 1992 Solving Geometric Constraints records and explains the formal basis for graphical analysis techniques that have been used for decades in engineering disciplines It describes a novel computer implementation of a 3D graphical analysis method degrees of freedom analysis for solving geometric constraint problems of the type encountered in the kinematic analysis of mechanical linkages providing the best computational bounds yet achieved for this class of problems The technique allows for the design of algorithms that provide signification speed increases and will foster the development of interactive software tools for the simulation optimization and design of complex mechanical devices as well as provide leverage in other geometric domains Geometric and Algorithmic Aspects of Computer-aided Design and Manufacturing Ravi Janardan, Michiel Smid, Debasish Dutta, Computer Aided Design and Manufacturing CAD CAM is concerned with all aspects of the process of designing prototyping manufacturing inspecting and maintaining complex geometric objects under computer control As such there is a natural synergy between this field and Computational Geometry CG which involves the design analysis implementation and testing of efficient algorithms and data representation techniques for geometric entities such as points polygons polyhedra curves and surfaces The DIMACS Center Piscataway NJ sponsored a workshop to further promote the interaction between these two fields Attendees from academia research laboratories and industry took part in the invited talks contributed presentations and informal discussions This volume is an outgrowth of that meeting Advances in Geometric Modeling and Processing Falai Chen, Bert Jüttler, 2008-04-30 Geometric Modeling and Processing GMP is a biennial international conference on geometric modeling simulation and computing which provides researchers and practitioners with a forum for exchanging new ideas discussing new app cations and presenting new solutions Previous GMP conferences were held in Pittsburgh 2006 Beijing 2004 Tokyo 2002 and Hong Kong 2000 This the 5th GMP conference was held in Hangzhou one of the most beautiful cities in China GMP 2008 received 113 paper submissions covering a wide spectrum of ometric modeling and processing such as curves and surfaces digital geometry processing geometric feature modeling and recognition geometric constraint solving geometric optimization multiresolution modeling and applications in computer vision image processing scienti c visualization robotics and reverse engineering Each paper was reviewed by at least three members of the program committee and external reviewers Based on the recommendations of the review and regular papers were selected for oral presentation and 17 short papers were selected for poster presentation All selected papers are included in these proceedings We thank all authors external reviewers and program committee members for their great e ort and contributions which made this conference a success Direct Engineering: Toward Intelligent Manufacturing Ali K. Kamrani, Peter R. Sferro, 2012-12-06 Direct Engineering DE is the creation of a product development cycle into a single unified process The design process in most industries is an evolutionary one i e incremental changes to some existing design DE is a manufacturing process that

seeks to improve the design processes by providing complete archival documentation of existing designs It uses three dimensional geometric models with integrated manufacturing information throughout the design process DE reduces the design cycle and the variety and number of engineering changes This process decreases the design cycle time increases productivity and provides a higher quality product The required technologies and methodologies that will support the development of the DE environment are 1 product representation using feature based modeling 2 knowledge based applications that will support the entire product development cycle 3 an engineering environment implemented around distributed computing and object oriented systems 4 direct manufacturing techniques using rapid prototyping Direct Engineering Toward Intelligent Manufacturing addresses the following recent topics related to the development implementation and integration of the DE environment 1 the current scope of the research in intelligent manufacturing 2 the results of the technologies and tools developed for integrated product and process designs and 3 examination of the methodologies and algorithms used for the implementation of direct engineering **Computer Mathematics** Xiao-Shan Gao, Dongming Wang, 2000 This volume contains selected papers presented at the Fourth Asian Symposium on Computer Mathematics 39 peer reviewed original contributions together with full papers and extended abstracts by the four invited speakers G H Gonnet D Lazard W McCune and W T Wu cover some of the most recent and significant advances in computer mathematics including algebraic symbolic numeric and geometric computation automated mathematical reasoning mathematical software and computer aided geometric design Researchers teachers students and engineers interested in doing mathematics using computers will find this volume good reading and a valuable reference Constraint-based Reasoning Eugene C. Freuder, Alan K. Mackworth, 1994 Constraint based reasoning is an important area of automated reasoning in artificial intelligence with many applications These include configuration and design problems planning and scheduling temporal and spatial reasoning defeasible and causal reasoning machine vision and language understanding qualitative and diagnostic reasoning and expert systems Constraint Based Reasoning presents current work in the field at several levels theory algorithms languages applications and hardware Constraint based reasoning has connections to a wide variety of fields including formal logic graph theory relational databases combinatorial algorithms operations research neural networks truth maintenance and logic programming The ideal of describing a problem domain in natural declarative terms and then letting general deductive mechanisms synthesize individual solutions has to some extent been realized and even embodied in programming languages Contents Introduction E C Freuder A K Mackworth The Logic of Constraint Satisfaction A K Mackworth Partial Constraint Satisfaction E C Freuder R J Wallace Constraint Reasoning Based on Interval Arithmetic The Tolerance Propagation Approach E Hyvonen Constraint Satisfaction Using Constraint Logic Programming P Van Hentenryck H Simonis M Dincbas Minimizing Conflicts A Heuristic Repair Method for Constraint Satisfaction and Scheduling Problems S Minton M D Johnston A B Philips and P Laird Arc Consistency Parallelism and Domain Dependence P R Cooper M J Swain Structure Identification in Relational Data R Dechter J Pearl Learning to Improve Constraint Based Scheduling M Zweben E Davis B Daun E Drascher M Deale M Eskey Reasoning about Qualitative Temporal Information P van Beek A Geometric Constraint Engine G A Kramer A Theory of Conflict Resolution in Planning O Yang A Bradford Book CAD/CAM Systems René Soenen, Gustav J. Olling, 2016-01-09 This book provides up to date information about the promising use of feature technology for integrating computer aided design with subsequent applications. The book consists of 20 articles based upon the international IFIP conference on this topic held in Valenciennes France in May 1994 Fumihiko Kimura, 2013-06-29 Geometric modelling has been an important and interesting subject for many years from the purely mathematical and computer science viewpoint and also from the standpoint of engineering and various other applications such as CAD CAM entertainment animation and multimedia This book focuses on the interaction between the theoretical foundation of geometric modelling and practical applications in CAD and related areas Geometric Modelling Theoretical and Computational Basis towards Advanced CAD Applications starts with two position papers discussing basic computational theory and practical system solutions The well organized seven review papers give a systematic overview of the current situation and deep insight for future research and development directions towards the reality of shape representation and processing They discuss various aspects of important issues such as geometric computation for space search and shape generation parametric modelling feature modelling user interface for geometric modelling geometric modelling for the Next Generation CAD and geometric shape standard Other papers discuss features and new research directions in geometric modelling solid modeling free form surface modeling intersection calculation mesh modeling and reverse engineering They cover a wide range of geometric modelling issues to show the problem scope and the technological importance Researchers interested in the current status of geometric modelling research and developments will find this volume to be an essential reference From Geometric Modeling to Shape Modeling Umberto Cugini, Michael Wozny, 2013-03-14 IFIP Working Group 5 2 has organized a series of workshops aimed at presenting and discussing current issues and future perspectives of Geometric Modeling in the CAD environment From Geometric Modeling to Shape Modeling comprises the proceedings of the seventh GEO workshop which was sponsored by the International Federation for Information Processing IFIP and held in Parma Italy in October 2000 The workshop looked at new paradigms for CAD including the evolution of geometric centric CAD systems modeling of non rigid materials shape modeling geometric modeling and virtual prototyping and new methods of interaction with geometric models The seventeen included papers provide an interesting overview of the evolution of geometric centric modeling into shape modeling Also included is an invited speaker paper which discusses the foundation of the next generation of CAD systems where shape and function enhance geometric descriptions The main topics discussed in the book are Theoretical foundation for solids and surfaces Computational basis for geometric modeling Methods of interaction with geometric models Industrial and other applications

of geometric modeling New paradigms of geometric modeling for CAD Shape modeling From Geometric Modeling to Shape Modeling is essential reading for researchers graduate and postgraduate students systems developers of advanced computer aided design and manufacturing systems and engineers involved in industrial applications **Automation and Control** Trends Pedro Ponce, Arturo Molina, Luis Ibarra, 2016-10-12 This book is an overview of the different paths automation and control engineering have taken lately from a modern point of view Built up with example chapters this book provides some insight into the use of artificial intelligence and control theory on manufacturing comfort analysis reliability of modern digital systems and the use of unusual reference and feedback signals as those coming from the brain Nonetheless some chapters are also devoted to a more traditional point of view of control theory addressing complex problems where human intervention must be limited Overall this book is an effort to show that modern automation and control engineering are comprised by many diverse areas which should interact in order to provide a complete result In this way as the systems become more complex and the control objectives more subjective both formal analytic and intelligent approaches should be seen as complementary tools not unrelated competitors This books aim is precisely that of showing how broad and diverse the control objectives have become and how the abilities of the control engineer should be extended **Solving and Applications** Beat Brüderlin, Dieter Roller, 2012-12-06 Geometric constraint programming increases flexibility in CAD design specifications and leads to new conceptual design paradigms This volume features a collection of work by leading researchers developing the various aspects of constraint based product modeling In an introductory chapter the role of constraints in CAD systems of the future and their implications for the STEP data exchange format are discussed The main part of the book deals with the application of constraints to conceptual and collaborative design as well as state of the art mathematical and algorithmic methods for constraint solving Recent Advances in Qualitative Physics Boi Faltings, Peter Struss, 1992 These twenty eight contributions report advances in one of the most active research areas in artificial intellgence Qualitative modeling techniques are an essential part of building second generation knowledge based systems This book provides a timely overview of the field while also giving some indications about applications that appear to be feasible now or in the near future Chapters are organized into sections covering modeling and simulation ontologies computational issues and qualitative analysis Modeling a physical system in order to simulate it or solve particular problems regarding the system is an important motivation of qualitative physics involving formal procedures and concepts The chapters in the section on modeling address the problem of how to set up and structure qualitative models particularly for use in simulation Ontology or the science of being is the basis for all modeling Accordingly chapters on ontologies discuss problems fundamental for finding representational formalism and inference mechanisms appropriate for different aspects of reasoning about physical systems Computational issues arising from attempts to turn qualitative theories into practical software are then taken up In addition to simulation and modeling qualitative physics can be used to solve particular

problems dealing with physical systems and the concluding chapters present techniques for tasks ranging from the analysis of behavior to conceptual design The Language Complexity Game Eric Sven Ristad, 1993 This work elucidates the structure and complexity of human language in terms of the mathematics of information and computation It strengthens Chomsky's early work on the mathematics of language with the advantages of a better understanding of language and a more precise theory of structural complexity Ristad argues that language is the process of constructing linguistic representations from the forms produced by other cognitive modules and that this process is NP complete This NP completeness is defended with a phalanx of elegant and revealing proofs that rely only on the empirical facts of linguistic knowledge and on the uncontroverted assumption that these facts generalize in a reasonable manner For this reason these complexity results apply to all adequate linguistic theories and are the first to do so Eric Sven Ristad is Assistant Professor of Computer Science at Princeton University He is the coauthor of Computational Complexity and Natural Language Contents Foundation of the Investigation Anaphora Ellipsis Phonology Syntactic Agreement and Lexical Ambiguity Philosophical Issues **Frame Problem** Murray Shanahan,1997 In 1969 John McCarthy and Pat Hayes uncovered a problem that has haunted the field of artificial intelligence ever since the frame problem The problem arises when logic is used to describe the effects of actions and events Put simply it is the problem of representing what remains unchanged as a result of an action or event Many researchers in artificial intelligence believe that its solution is vital to the realization of the field s goals Solving the Frame Problem presents the various approaches to the frame problem that have been proposed over the years The author presents the material chronologically as an unfolding story rather than as a body of theory to be learned by rote There are lessons to be learned even from the dead ends researchers have pursued for they deepen our understanding of the issues surrounding the frame problem In the book s concluding chapters the author offers his own work on event calculus which he claims comes very close to a complete solution to the frame problem Artificial Intelligence series Geometric Modeling: Theory and Practice Wolfgang Straßer, Reinhard Klein, Rene Rau, 2012-12-06 The Blaubeuren Conference Theory and Practice of Geometric Modeling has become a meeting place for leading experts from industrial and academic research institutions CAD system developers and experienced users to exchange new ideas and to discuss new concepts and future directions in geometric modeling The relaxed and calm atmosphere of the Heinrich Fabri Institute in Blaubeuren provides the appropriate environment for profound and engaged discussions that are not equally possible on other occasions Real problems from current industrial projects as well as theoretical issues are addressed on a high scientific level This book is the result of the lectures and discussions during the conference which took place from October 14th to 18th 1996 The contents is structured in 4 parts Mathematical Tools Representations Systems Automated Assembly The editors express their sincere appreciation to the contributing authors and to the members of the program committee for their cooperation the careful reviewing and their active participation that made the conference and this book a success **Algorithmic Foundations of Robotics V**

Jean-Daniel Boissonnat, Joel Burdick, Ken Goldberg, Seth Hutchinson, 2003-09-11 Selected contributions to the Workshop WAFR 2002 held December 15 17 2002 Nice France This fifth biannual Workshop on Algorithmic Foundations of Robotics focuses on algorithmic issues related to robotics and automation The design and analysis of robot algorithms raises fundamental questions in computer science computational geometry mechanical modeling operations research control theory and associated fields The highly selective program highlights significant new results such as algorithmic models and complexity bounds The validation of algorithms design concepts or techniques is the common thread running through this Qualitative Reasoning Benjamin Kuipers, 1994 Qualitative models are better able than traditional models to express states of incomplete knowledge about continuous mechanisms Qualitative simulation guarantees to find all possible behaviors consistent with the knowledge in the model This expressive power and coverage is important in problem solving for diagnosis design monitoring explanation and other applications of artificial intelligence Diagrammatic Representation and Reasoning Michael Anderson, Bernd Meyer, Patrick Olivier, 2011-06-27 Diagrams are essential in most fields of human activity There is substantial interest in diagrams and their use in many academic disciplines for the potential benefits they may confer on a wide range of tasks Are we now in a position to claim that we have a science of diagrams that is a science which takes the nature of diagrams and their use as the central phenom ena of interest If we have a science of diagrams it is certainly constituted from multiple disciplines including cognitive science psychology artificial intelligence logic mathematics and others If there is a science of diagrams then like other sciences there is an appli cations or engineering discipline that exists alongside the science Applications and engineering provide tests of the theories and principles discovered by the science and extend the scope of the phenomena to be studied by gen erating new uses of diagrams new media for presenting diagrams or novel classes of diagram This applications and engineering side of the science of di agrams also comprises multiple disciplines including education architecture computer science mathematics human computer interaction knowledge ac quisition graphic design engineering history of science statistics medicine biology Computer-aided Tolerancing Fumihiko Kimura, 2012-12-06 Theory and practice of tolerances are very and others important for designing and manufacturing engineering artifacts on a rational basis Tolerance specifies a degree of discrepancy between an idealized object and its physical realization Such discrepancy inevitably comes into our product realization processes because of practical cost consideration or our inability to fully control manufacturing processes Major product and production characteristics which are affected by tolerances are product quality and cost For achieving high precision machines tight tolerance specification is necessary but this will normally increase product cost In order to optimally compromise the conflicting requirements of quality and cost it is essential to take into account of the total product life cycle throughout product planning design manufacturing maintenance and recycling For example in order to construct durable products under severe working conditions low sensitivity of product functionality with respect to tolerances is required In

future re use of components or parts will become important and tolerance synthesis with respect to this aspect will be an interesting future research topics Knowledge Intensive CAD Martti Mäntylä, Susan Finger, Tetsuo Tomiyama, 2016-01-09 Knowledge Intensive CAD clarifies and elaborates the concepts of knowledge intensive design and CAD In today s advanced manufacturing environment CAD systems should not only assist designers and engineers during product design but also in design information for use in later stages of the process such as production distribution and operation This book focuses on the sharing of knowledge across life cycle stages and organizational boundaries

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