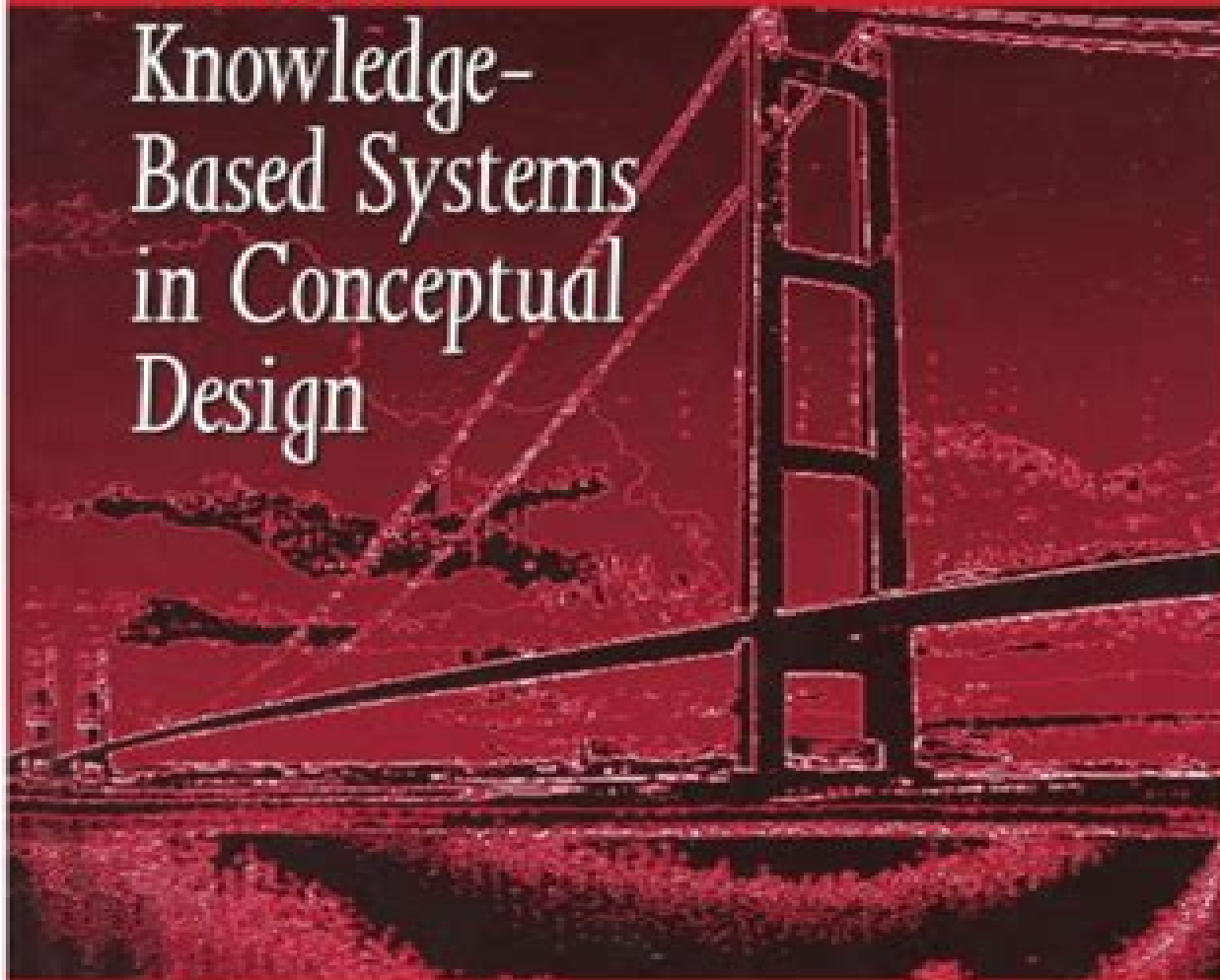


John Miles and Carolynne Moore

Practical Knowledge- Based Systems in Conceptual Design



Springer-Verlag

Practical Knowledgebased Systems In Conceptual Design

Ann Macintosh, Mike Moulton, Alun Preece



Practical Knowledgebased Systems In Conceptual Design:

Practical Knowledge-Based Systems in Conceptual Design John C. Miles,Carolynne J. Moore,2012-12-06 Conceptual Design is one of the few areas of Engineering Design where computers have yet to make an impact With the development of Knowledge Based Systems it is now possible to rectify this situation This publication deals with the use of Knowledge Based Systems KBS as tools for conceptual design Included are neglected aspects such as evaluation and user needs Practical Knowledge Based Systems in Conceptual Design is based on the authors experience of developing KBS for use in civil engineering an area of industrial application which is recognised as being one of great potential The methodology has been tried and tested by designers Examples of systems which have been developed to solve specific design problems are included

Practical Knowledge-Based Systems in Conceptual Design John C Miles,Carolynne J Moore,1993-12-07 **Stability and Control of Conventional and Unconventional Aerospace Vehicle Configurations** Bernd Chudoba,2019-07-23 This book introduces a stability and control methodology named AeroMech capable of sizing the primary control effectors of fixed wing subsonic to hypersonic designs of conventional and unconventional configuration layout Control power demands are harmonized with static dynamic and maneuver stability requirements while taking the six degree of freedom trim state into account The stability and control analysis solves the static and dynamic equations of motion combined with non linear vortex lattice aerodynamics for analysis The true complexity of addressing subsonic to hypersonic vehicle stability and control during the conceptual design phase is hidden in the objective to develop a generic vehicle configuration independent methodology concept The inclusion of geometrically asymmetric aircraft layouts in addition to the reasonably well known symmetric aircraft types contributes significantly to the overall technical complexity and level of abstraction The first three chapters describe the preparatory work invested along with the research strategy devised thereby placing strong emphasis on systematic and thorough knowledge utilization The engineering scientific method itself is derived throughout the second half of the book This book offers a unique aerospace vehicle configuration independent generic methodology and mathematical algorithm The approach satisfies the initial technical quest How to develop a configuration stability control methodology module for an advanced multi disciplinary aerospace vehicle design synthesis environment that permits consistent aerospace vehicle design evaluations

Applications and Innovations in Intelligent Systems IX Ann Macintosh, Mike Moulton, Alun Preece, 2012-12-06 Ann Macintosh Napier University UK The papers in this volume are the refereed application papers presented at ES2001 the Twenty first SGES International Conference on Knowledge Based Systems and Applied Artificial Intelligence held in Cambridge in December 2001 The scope of the application papers has expanded over recent years to cover not just innovative applications using traditional knowledge based systems but also to include applications demonstrating the whole range of AI technologies These papers continue to illustrate the maturity of AI as a commercially viable technology to solve real world problems The papers were subject to refereeing by at least two

expert referees All papers that were in any way controversial were discussed in depth by the Application Programme Committee For the ES2001 Application Stream a paper is acceptable even if it describes a system that has not yet been installed provided the application is original and the paper discusses the kind of things that would help others needing to solve a similar problem Papers have been selected to highlight critical areas of success and failure and to present the benefits and lessons learnt to other developers This volume contains sixteen papers describing deployed or emerging applications in a range of diverse areas business and commerce engineering manufacturing knowledge and information management and music

Artificial Intelligence in Structural Engineering Ian Smith, 1998-07-15 This book presents the state of the art of artificial intelligence techniques applied to structural engineering The 28 revised full papers by leading scientists were solicited for presentation at a meeting held in Ascona Switzerland in July 1998 The recent advances in information technology in particular decreasing hardware cost Internet communication faster computation increased bandwidth etc allow for the application of new AI techniques to structural engineering The papers presented deal with new aspects of information technology support for the design analysis monitoring control and diagnosis of various structural engineering systems

A Knowledge-based Concept Exploration Model for Submarine Design Clemens Gerardus Johannes Maria van der Nat, 1999

Development of Knowledge-Based Systems for Engineering Carlo Tasso, Edoardo R. de Arantes e Oliveira, 2014-05-04 The goal of the volume is twofold to help engineers to understand the design and development process and the specific techniques utilized for constructing expert systems in engineering and secondly to introduce computer specialists to significant applications of knowledge based techniques in engineering Among the authors are world famous experts of engineering and knowledge based systems development

Knowledge Based Systems for Civil and Structural Engineering B. H. V. Topping, 1993 Included in this volume are a selection of papers on the application of knowledge based systems to civil structural engineering The papers were presented at the Third International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering held 17-19 August 1993 Edinburgh

Intelligent Systems and Applications Yaxin Bi, Rahul Bhatia, Supriya Kapoor, 2019-08-23 The book presents a remarkable collection of chapters covering a wide range of topics in the areas of intelligent systems and artificial intelligence and their real world applications It gathers the proceedings of the Intelligent Systems Conference 2019 which attracted a total of 546 submissions from pioneering researchers scientists industrial engineers and students from all around the world These submissions underwent a double blind peer review process after which 190 were selected for inclusion in these proceedings As intelligent systems continue to replace and sometimes outperform human intelligence in decision making processes they have made it possible to tackle a host of problems more effectively This branching out of computational intelligence in several directions and use of intelligent systems in everyday applications have created the need for an international conference as a venue for reporting on the latest innovations and trends This book collects both theory and

application based chapters on virtually all aspects of artificial intelligence presenting state of the art intelligent methods and techniques for solving real world problems along with a vision for future research it represents a unique and valuable asset

AI System Support for Conceptual Design John E.E. Sharpe,2012-12-06 It is well known that some 85% of the resources necessary to design and bring to market a product are committed by decisions taken in the first 10% of the design activity This together with the wish to reduce further the time to market of high quality innovative products has increased the need for computer support at the conceptual design stage of the engineering design process life style This proceedings firmly focuses on the continuing research into new uses of Artificial Intelligence AI during the conceptual design process It shows how novel applications of AI may be integrated with aspects of solid modelling simulation optimisation and multiple criterion decision making A particular emphasis is placed on the use of AI methods in the overall design of products from major Civil Engineering structures to Consumer Electronics *20th ISPE International Conference on Concurrent Engineering* C. Bil.J. Mo,J. Stjepandić,2013-09-12 As a concept Concurrent Engineering CE initiates processes with the goal of improving product quality production efficiency and overall customer satisfaction Services are becoming increasingly important to the economy with more than 60% of the GDP in Japan the USA Germany and Russia deriving from service based activities The definition of a product has evolved from the manufacturing and supplying of goods only to providing goods with added value to eventually promoting a complete service business solution with support from introduction into service and from operations to decommissioning This book presents the proceedings of the 20th ISPE International Conference on Concurrent Engineering held in Melbourne Australia in September 2013 The conference had as its theme Product and Service Engineering in a Dynamic World and the papers explore research results new concepts and insights covering a number of topics including service engineering cloud computing and digital manufacturing knowledge based engineering and sustainability in concurrent engineering *Methodology and Tools in Knowledge-Based Systems* ,1998 **Artificial Intelligence in the Pacific Rim** Hozumi Tanaka,1991 In the last decade AI firmly settled into our industrial society with the expert systems as the representative product However almost every one of the systems could cover only a single task domain In the highly mechanized world of the 21st century systems will become smart and user friendly enough to cover a wide range of task domains Systems with much user friendliness must be multilingual because users in different domains usually have different languages Language is formed in its own culture Therefore promotion for cross cultural scientific interchange will be indispensable for the progress of AI Proceedings, the Second International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems ,1989 *Integration of Process Knowledge into Design Support Systems* Hubert Kals,Fred van Houten,2013-04-17 Design is a fundamental creative human activity This certainly applies to the design of artefacts the realisation of which has to meet many constraints and ever raising criteria The world in which we live today is enormously influenced by the human race Over the last century these artefacts have dramatically changed the

living conditions of humans The present wealth in very large parts of the world depends on it All the ideas for better and new artefacts brought forward by humans have gone through the minds of designers who have turned them into feasible concepts and subsequently transformed them into realistic product models The designers have been still are and will remain the leading change agents in the physical world Manufacturability of artefacts has always played a significant role in design In pre industrial manufacturing the blacksmith held the many design and realisation aspects of a product in one hand The synthesis of the design and manufacturing aspects took almost implicitly place in the head of the man All the knowledge and the skills were stored in one person Education and training took place along the line of many years of apprenticeship When the production volumes increased assembling to measure was no longer tolerated and production efficiency became essential design process planning production planning and fabrication became separated concerns The designers created their own world separated from the production world They argued that restrictions in the freedom of designing would badly influence their creativity in design

OOIS' 95 John Murphy, Brian Stone, 2012-12-06 OOIS 95 Object Oriented Information Systems 95 contains contributions from leading researchers and practitioners working on object oriented technology and its application in information systems design and development The book has a strong practical focus and contains much technical insight of particular relevance to professionals working in the field The papers cover two main areas of the field academic research trends into object oriented concepts and principles and state of the art applications in industry Among the specific topics covered are modelling knowledgebases software development interface design object databases distributed databases and emerging object technologies All those working in the field of information technology will find the book a useful source of reference

Advanced Information and Computer Technology in Engineering and Manufacturing, Environmental Engineering M.L. Li, G.W. Zhang, 2013-09-04 Selected peer reviewed papers from the 2013 International Conference on Advances in Materials Science and Manufacturing Technology AMSMT 2013 May 18 19 2013 Xiamen Fujian China

Scientific and Technical Aerospace Reports, 1994 Knowledge Engineering John Debenham, 2012-12-06 This monograph describes a methodology for the design of knowledge based systems A knowledge based system contains knowledge as well as information and data The information and data in such a system can be modelled and implemented as a database The knowledge in such a system can be implemented either in a programming language or in an expert systems shell This methodology has two distinguishing features First it is unified A unified methodology represents the data information and knowledge in a homogeneous manner as well as the relationships between them Second the methodology builds a maintenance mechanism into the design In knowledge engineering terms the representation used by this methodology to model knowledge bases applies equally to databases In database terms the representation used by this methodology to model databases applies equally to the database rules The unified methodology unifies the design of the knowledge base component and the database component Unification is achieved in five senses

XPS-99:

Knowledge-Based Systems - Survey and Future Directions Frank Puppe, 2005-11-20 A special year like 1999 invites one to draw a balance of what has been achieved in the roughly 30 years of research and development in knowledge based systems still abbreviated as XPS following the older term expert systems and to take a look at what the future may hold. For the 5th German conference on knowledge based systems we therefore asked current and former speakers of the four working groups FGs in the subdivision of knowledge based systems FA 1-5 of the German association of Informatics GI to present a survey of and future prospects for their respective fields: knowledge engineering, diagnosis, configuration, and case based reasoning. An additional 14 technical papers deal with current topics in knowledge based systems with an equal emphasis on methods and applications. They are selected from more than 50 papers accepted in the 4 parallel workshops of XPS 99: a Knowledge Management, Organizational Memory and Reuse, b various fields of applications, c the traditional PuK Workshop, planning and configuration, and d the GWCBR German workshop on case based reasoning. The other papers presented at these workshops are not included in this volume but are available as internal reports of Würzburg university together with the exhibition guide that emphasizes tool support for building knowledge based systems.

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