

# PROBLEM SOLVING IN OPEN WORLDS

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A Case Study in Design

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Thomas R. Hinrichs



# Problem Solving In Open Worlds A Case Study In Design

**Thomas R. Hinrichs**



## **Problem Solving In Open Worlds A Case Study In Design:**

*Issues and Applications of Case-Based Reasoning to Design* Mary Lou Maher, Pearl Pu, 2014-02-25 Design is believed to be one of the most interesting and challenging problem solving activities ever facing artificial intelligence AI researchers Knowledge based systems using rule based and model based reasoning techniques have been applied to build design automation and or design decision support systems Although such systems have met with some success difficulties have been encountered in terms of formalizing such generalized design experiences as rules logic and domain models Recently researchers have been exploring the idea of using case based reasoning CBR techniques to complement or replace other approaches to design support CBR can be considered as an alternative to paradigms such as rule based and model based reasoning Rule based expert systems capture knowledge in the form of if then rules which are usually identified by a domain expert Model based reasoning aims at formulating knowledge in the form of principles to cover the various aspects of a problem domain These principles which are more general than if then rules comprise a model which an expert system may use to solve problems Model based reasoning MBR is sometimes called reasoning from first principles Instead of generalizing knowledge into rules or models CBR is an experience based method Thus specific cases corresponding to prior problem solving experiences comprise the main knowledge sources in a CBR system This volume includes a collection of chapters that describe specific projects in which case based reasoning is the focus for the representation and reasoning in a particular design domain The chapters provide a broad spectrum of applications and issues in applying and extending the concept of CBR to design Each chapter provides its own introduction to CBR concepts and principles

**Case-Based Reasoning Research and Development** Manuela Veloso, Agnar Aamodt, 1995-10-16 This book constitutes the refereed proceedings of the First International Conference on Case Based Reasoning ICCBR 95 held in Sesimbra Portugal in October 1995 The 52 revised papers included are classified as scientific papers application papers and posters All current aspects of research and development aiming at industrial applications in CBR are addressed Among the topical sections are case and knowledge representation case retrieval nearest neighbour methods case adaption and learning cognitive modelling integrated reasoning methods and application oriented methods planning decision making diagnosis interpretation design etc

**Erfahrungswissen in der computerunterstützten Angebotsbearbeitung**, 2013-07-01 Der intensive Verdr  
nungswettbewerb zwingt viele Unternehmen zu einer stärkeren Kunden orientierung die bereits in der Angebotsbearbeitung ihren Anfang findet Schnelles Reagieren auf Kundenanfragen und qualitativ hochwertige kundenindividuelle Angebote helfen den Unternehmen Marktanteile zu sichern bzw neue Märkte zu gewinnen Eine schnelle Angebots bearbeitung wird in der Praxis häufig durch unzureichendes Datenmaterial und fehlendes Know how erschwert Nur hochqualifizierte erfahrene Sachbearbeiter sind derzeit in der Lage qualitativ hochwertige Angebote in einem ad quaten Zeitrahmen zu erstellen Im Mittelpunkt der wissenschaftlichen Untersuchungen dieser Arbeit steht die Erfassung Speicherung und Bereitstellung von

Erfahrungswissen wie sie zur effizienten Bearbeitung von Angeboten benötigt wird. Speziell werden hierzu Methoden der fallbasierten Wissensverarbeitung eine relativ junge Forschungsrichtung der Informatik auf ihre Anwendbarkeit hin untersucht. Es wird gezeigt, dass die Verwendung fallbasierter Methoden als informationstechnische Basis zur Verarbeitung von Erfahrungswissen in der Angebotsbearbeitung eine valide Grundlage effizienter Angebotsunterstützungssysteme bildet. Die vorliegende Arbeit entstand im Laufe meiner Tätigkeit am Institut für Wirtschaftsinformatik der Universität Münster.

Besonderer Dank gilt meinen akademischen Lehrern Herrn Prof. Dr. Karl Kurbel, der mir die Möglichkeit zur Promotion am Lehrstuhl für Wirtschaftsinformatik bot, und die Abfassung der Dissertation durch wertvolle Anregungen unterstützte Herrn Prof. Dr. Jörg Becker, danke ich sehr herzlich für die Übernahme des Zweitgutachtens.

**Case-Based Reasoning** Janet Kolodner, 2014-06-28 Case based reasoning is one of the fastest growing areas in the field of knowledge based systems and this book, authored by a leader in the field, is the first comprehensive text on the subject. Case based reasoning systems are systems that store information about situations in their memory. As new problems arise, similar situations are searched out to help solve these problems. Problems are understood and inferences are made by finding the closest cases in memory, comparing and contrasting the problem with those cases, making inferences based on those comparisons, and asking questions when inferences cannot be made. This book presents the state of the art in case based reasoning. The author synthesizes and analyzes a broad range of approaches with special emphasis on applying case based reasoning to complex real world problem solving tasks such as medical diagnosis, design, conflict resolution, and planning. The author's approach combines cognitive science and engineering and is based on analysis of both expert and common sense tasks. Guidelines for building case based expert systems are provided, such as how to represent knowledge in cases, how to index cases for accessibility, how to implement retrieval processes for efficiency, and how to adapt old solutions to fit new situations. This book is an excellent text for courses and tutorials on case based reasoning. It is also a useful resource for computer professionals and cognitive scientists interested in learning more about this fast growing field.

*Encyclopedia of Computer Science and Technology* Allen Kent, James G. Williams, 1995-07-26 Case Based Reasoning to User Interface Software Tools

*Problem Solving in Open Worlds* Thomas R. Hinrichs, 1992 This book presents a computational model of design problem solving in which problems may be underspecified and domain knowledge may be incomplete. The approach combines plausible inference methods for generating, adapting, and evaluating designs together with a flexible control strategy that accommodates constraints emerging late in the design process. Novel features of this model include a problem solving architecture that integrates case based reasoning and constraint posting to generate plausible designs, domain independent algorithms and heuristics for adapting proposed designs, and new mechanisms and metrics for evaluating solutions in terms of their integrity and completeness. This model of design is implemented in a computer program called JULIA that interactively designs the presentation and menu of a meal.

**Journal of Technology Education**, 2004      **Dissertation**

**Abstracts International** ,1992      **AAAI-91** American Association for Artificial Intelligence,1991 AAAI proceedings describe innovative concepts techniques perspectives and observations that present promising research directions in artificial intelligence July 15 19 1991 Anaheim California Topics include Communication and Cooperation AI and Education User Interfaces Natural Language Distributed AI Reasoning about Physical Systems Perception Planning and Robotics Machine Learning      **Designing Composite Material Systems Using Generic Tasks and Case-based Reasoning** Timothy Joel Lenz,1997      Proceedings American Association for Artificial Intelligence,1991      **Artificial Intelligence in Design '94** John S. Gero,Fay Sudweeks,1994 Design is an important research topic in engineering and architecture since it is not only a means of change but also one of the keystones of economic competitiveness and the fundamental precursor to manufacturing However our understanding of design as a process and our ability to model it are still very limited The development of computational models founded on the artificial intelligence paradigm has provided an impetus for much of current design research both computational and cognitive Notwithstanding their immaturity noticeable advances have been made both in extending our understanding of design and in developing tools based on that understanding      Proceedings of the Twelfth National Conference on Artificial Intelligence American Association for Artificial Intelligence,1994  
*Applications of Artificial Intelligence in Engineering VIII* George Rzevski,J. Pastor,R. A. Adey,1993      **Case-based Reasoning Research and Development** ,1997      **Proceedings of the ... International IEEE Conference on Tools for Artificial Intelligence** ,2000      *Interface Between Information Systems and Operations Research* ,1997      **Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conferences--2005** ,2005      *Artificial Intelligence & Creativity* American Association for Artificial Intelligence. Spring Symposium,1993      **Advances in Case-based Reasoning** ,1996

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

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