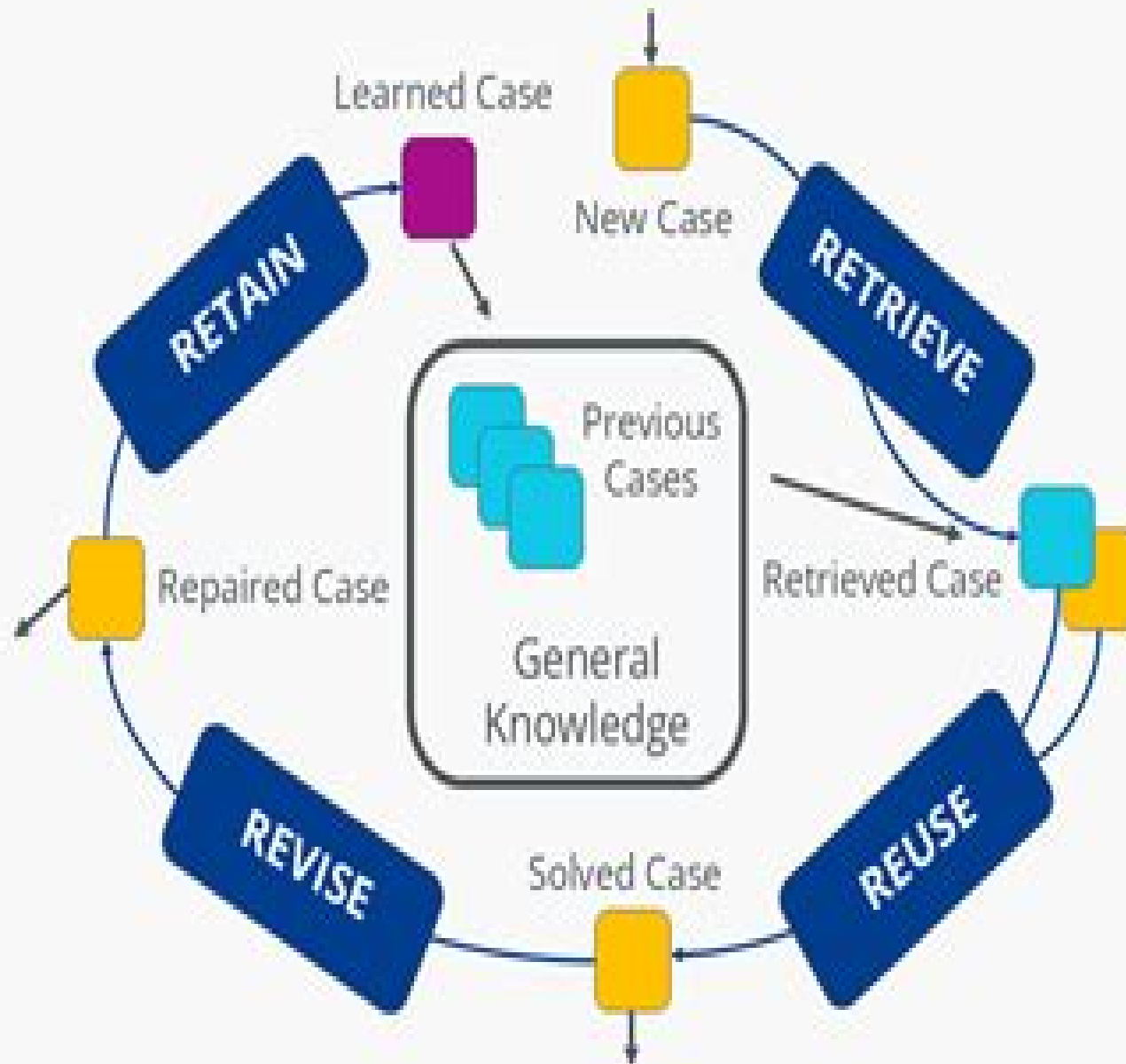


# Case-Based Reasoning (CBR)



# Case Based Reasoning In Design

**Mary Lou Maher, Pearl Pu**



## **Case Based Reasoning In Design:**

Case-Based Reasoning in Design Mary Lou Maher, M. Bala Balachandran, Dong Mei Zhang, 2014-02-25 Case based reasoning in design is becoming an important approach to computer support for design as well as an important component in understanding the design process Design has become a major focus for problem solving paradigms due to its complexity and open ended nature This book presents a clear description of how case based reasoning can be applied to design problems including the representation of design cases indexing and retrieving design cases and the range of paradigms for adapting design cases With a focus on design this book differs from others that provide a generalist view of case based reasoning This volume provides two important contributions to the area a general description of the issues and alternatives in applying case based reasoning to design and a description of specific implementations of case based design Through this combination the reader will learn about both the general issues and the practical problems in supporting design through case based reasoning This book was prepared to fill a gap in the literature on the unique problems that design introduces to computational paradigms developed in computer science It also addresses the needs of computational support for design problem solving from both theoretical and practical perspectives

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

**Issues and Applications of Case-based Reasoning in Design** Mary Lou Maher, Pearl Pu, 1997 In this book we have created a significant case library for those considering developing case based reasoning

systems for design The case library is descriptive rather than formal as is typical of case based design systems in a domain where there is little formal knowledge However as an informal description of experiences in developing case based design systems this book provides a broad range of experiences

The Use of Case-based Reasoning for Decision Support in Engineering Design Michael Stephen Lehane,1997

Integrating Model-based Reasoning and Case-based Reasoning for Design Problem Solving A. Goel,B. Chanrasekaran,1988

Computer Supported Cooperative Work in Design III Weiming Shen,Junzhou Luo,Zongkai Lin,Jean-Paul A. Barthès,Qi Hao,2007-08-04 This book constitutes the thoroughly refereed post proceedings of the 10th International Conference on Computer Supported Cooperative Work in Design CSCWD 2006 held in Nanjing China in May 2006 Among topics covered are CSCW techniques and methods collaborative design collaborative manufacturing and enterprise collaboration Web services knowledge management security and privacy in CSCW systems workflow management and e learning

Automation Based Creative Design - Research and Perspectives A. Tzonis,I. White,2012-12-02 Computer technology has revolutionized many aspects of building design such as drafting management construction even building with robots This revolution has expanded into the field of design creativity Presented in this book is an up to date comprehensive picture of research advances in the fast growing field of informatics applied to conceptual stages in the generation of artifacts in particular buildings It addresses the question how far and in what ways creative design can be intelligently automated Among the topics covered are the use of precedents the relations between case based rule based and principle based architectural design reasoning product typology artifact thesauruses the inputting and retrieval of architectural knowledge the visual representation and understanding of existing or projected built forms empirical and analytical models of the design process and the design product desktop design toolkits grammars of shape and of function multiple perspective building data structures design as a multi agent collaborative process the integration of heterogeneous engineering information and foundations for a systematic approach to the development of knowledge based design systems The papers provide a link between basic and practical issues fundamental questions in the theory of artifact design artificial intelligence and the cognitive science of imagination and reasoning problems in the computerization of building data and design facilities the practical tasks of building conception construction and evaluation The automation of creative design is itself considered as an engineering design problem The implications of current and future work for architectural education and research in architectural history as well as for computer integrated construction and the management of engineering projects are considered

A Mathematical Theory of Design: Foundations, Algorithms and Applications D. Braha,O. Maimon,2013-04-17 Formal Design Theory PDT is a mathematical theory of design The main goal of PDT is to develop a domain independent core model of the design process The book focuses the reader s attention on the process by which ideas originate and are developed into workable products In developing PDT we have been striving toward what has been expressed by the distinguished scholar Simon 1969 that the science of design is possible and some day we will

be able to talk in terms of well established theories and practices The book is divided into five interrelated parts The conceptual approach is presented first Part I followed by the theoretical foundations of PDT Part II and from which the algorithmic and pragmatic implications are deduced Part III Finally detailed case studies illustrate the theory and the methods of the design process Part IV and additional practical considerations are evaluated Part V The generic nature of the concepts theory and methods are validated by examples from a variety of disciplines FDT explores issues such as algebraic representation of design artifacts idealized design process cycle and computational analysis and measurement of design process complexity and quality FDT s axioms convey the assumptions of the theory about the nature of artifacts and potential modifications of the artifacts in achieving desired goals or functionality By being able to state these axioms explicitly it is possible to derive theorems and corollaries as well as to develop specific analytical and constructive methodologies

*Case Based Design* Yuri Avramenko, Andrzej Kraslawski, 2008-01-21 In a highly authoritative and systematic manner this book offers an in depth treatment of the essence of the case based reasoning strategy and case based design dwelling upon the algorithmic facet of the paradigm It provides an excellent applied research framework by showing how this development can be effectively utilized in the real word complicated environment of process engineering a pursuit that is rarely reported in the literature in such a comprehensive manner

**Case Based Reasoning for Design Composition in Architecture** Kamal Mubarak, 2004

**International Conference on Manufacturing Automation** X. Y. Shao, C. Deng, 2004-12-27 The proceedings of the fourth ICMA in 2004 represent a huge contribution to research in this area Everyone attending the conference was asked to submit their papers electronically which meant that 100 top quality papers from no less than 10 different countries contributed to the theme of the conference

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*Proceedings of the ... ASME Design Engineering Technical Conferences*, 2007      **Derivational Analogy Based Structural Design** B. Kumar, B. Raphael, 2001 Presenting the aspects of research into the application of artificial intelligence in structural design this monograph provides an insight into the research on the implementation of novel reasoning techniques in structural design Its primary aim is to address the issues of representation indexing retrieval and adaptation in Case Based Design      **Mechanical Engineering and Green Manufacturing II** Shao Bo Zhong, Xi Long Qu, 2012-02-27 Selected peer reviewed papers from the 2nd International Conference on Mechanical Engineering and Green Manufacturing MEGM 2012 March 16 18 2012 Chongqing China      *Integration of Case-based Reasoning and Model-based Reasoning for Adaptive Design Problem Solving* Ashok Kumar Goel, B. Chandrasekaran, 1989      **Journal of Design and Manufacturing**, 1994      *Intelligent Information and Database Systems* Ngoc-Thanh Nguyen, Bogdan Trawiński, Hamido Fujita, Tzung-Pei Hong, 2016-03-08 The two volume proceedings of the ACIIDS 2016 conference LNAI 9621 9622 constitutes the refereed proceedings of the 8th Asian Conference on Intelligent Information and Database Systems held in Da Nang Vietnam in March 2016 The total of 153 full papers accepted for publication in these proceedings was carefully reviewed and selected from 392 submissions They were organized in topical sections named knowledge engineering and semantic Web social networks and recommender systems text processing and information retrieval database systems and software engineering intelligent information systems decision support and control systems machine learning and data mining computer vision techniques intelligent big data exploitation cloud and network computing multiple model approach to machine learning advanced data mining techniques and applications computational intelligence in data mining for complex problems collective intelligence for service innovation technology opportunity e learning and fuzzy intelligent systems analysis for image video and motion data in life sciences real world applications in engineering and technology ontology based software development intelligent and context systems modeling and optimization techniques in information systems database systems and industrial systems smart pattern processing for sports and intelligent services for smart cities

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