
Case Based Reasoning Technology From Foundations To Applications Lecture Notes In Computer Science

an introduction to case-based reasoning* - an introduction to case-based reasoning* janet l. kolodner** college of computing, georgia institute of technology, atlanta, ga 30332-0280, u.s.a. abstract. case-based reasoning means using old experiences to understand and solve new problems. in case-based reasoning, a reasoner remembers a previous **case-based reasoning is a methodology not a technology** - case-based reasoning is a methodology not a technology q. i. watson ai-cbr, university of salford, salford m5 4wt, uk received 1 december 1998; accepted 17 march 1999 abstract this paper asks whether case-based reasoning is an artificial intelligence (ai) technology like rule-based reasoning, neural networks or **case based reasoning technology for medical diagnosis** - case based reasoning technology for medical diagnosis abdel-badeeh m. salem abstract—case based reasoning (cbr) methodology presents a foundation for a new technology of building intelligent ... **instructional design: case-based reasoning** - instructional design: case-based reasoning janet l. kolodner college of computing georgia institute of technology atlanta, ga 30332-0280 jlk@cctech **9. case-based reasoning and software engineering - lums** - 9.2 an overview of case-based reasoning technology as previously indicated, case-based reasoning has at its heart the notion of utilizing the memory of past problems solved to tackle new problems1. problems are organised as cases where each case comprises two parts. these are the description part and a solution part. **maintenance and limitations issues of case-based reasoning ...** - maintenance and limitations issues of case-based reasoning technology in a manufacturing application sally m. chan terence l. lammers the boeing company boeing commercial airplane group information technology p.o. box 3707, ms 6c-au seattle, wa 98124, usa sally.man@boeing terence.lammers@boeing abstract case-based reasoning (cbr ... **case-based reasoning and instructional design: using ...** - case-based reasoning and instructional design: using stories to support problem solving david h. jonassen julian hernandez-serrano with an increased emphasis on problem solving and problem-based learning in the instructional design field, new methods for task analysis and models for designing instruction are needed. an important **problem-based learning meets case-based reasoning in the ...** - problem-based learning meets case-based reasoning in the middle-school science classroom: putting learning by design™ into practice1 janet l. kolodner, paul j. camp, david crismond, barbara fasse, jackie gray, jennifer holbrook, sadhana puntambekar, and mike ryan2 edutech institute and college of computing georgia institute of technology **case-based reasoning: a research paradigm** - discuss case-based reasoning, an ai paradigm that addresses both research agendas. case-based reasoning is a psychological theory of human cognition. it address-es issues in memory, learning, planning, and problem solving. case-based reasoning also provides a foundation for a new technology of intelligent computer systems that can solve prob- **case-based reasoning and knowledge management: re-aligning ...** - case based reasoning and knowledge management: technologies rashmi pandya motorola 16 euroway blagrove swindon sn5 8yq england re-aligning the keywords cbr, knowledge management, deployment issues, en-abling technologies. introduction it is with some regret that cbr has, since the early **from case-based reasoning to problem-based learning** - from case-based reasoning to problem-based learning haim eshach, phd, and haim bitterman, md i n a recent study review, colliver1 reached the conclusion that there is no convincing evidence, that problem-based learning (pbl), despite the additional investments in time, money, and manpower, improves the knowledge bases and clinical performances ... **research article case-based reasoning method in cost ...** - case-based reasoning method in cost estimation of drilling wells hossein shams mianaei and seyed hossein iranmanesh department of industrial engineering, college of engineering, university of tehran, tehran, iran abstract: aim of study is the cost estimation of drilling wells using case-based reasoning (cbr) method which is **integrating case based and rule based reasoning ...** - **insead** - "integrating case based and rule based reasoning: the possibilistic connection" by soumitra dutta and piero bonissone n° 90/45/tm assistant professor of information systems, technology management area, insead, boulevard de constance, fontainebleau 77305 cedex, france artificial intelligence program, general electric corporate research **a comparison of the rule and case-based reasoning ...** - the information technology (it) help desk 10 expert systems defined 13 current uses and advances in expert systems and knowledge acquisition using rule-based reasoning (rbr) 15 current uses and advances in expert systems and knowledge acquisition using case-based reasoning (cbr) 17 case representation 26 case indexing 28 cbr retrieval methods 28 **case-based reasoning and its implications for legal expert ...** - case-based reasoning and its implications 115 significance of the differences in light of whatever classification theory is available, one may reasonably decide whether or not to apply the same category to the new case. diagnosis is a special kind of classification which involves not only categorizing a new **case-based reasoning for evolutionary mems design** - bines a case-based reasoning (cbr) algorithm and a mems case library with paramet-ric optimization and a multi-objective genetic algorithm (moga) to synthesize new mems design topologies that meet or improve upon a designer's specifications. cbr is an artificial intelligence methodology that uses past design solutions and adapts them to **[chapter 07] utilizing case-based reasoning principles in ...** - [chapter 07] utilizing case-based reasoning principles in technology

integration education description it is a constant challenge for teachers to keep up with the ever-changing technological advances in the world **design, innovation and case-based reasoning** - boundaries of case-based reasoning this paper, we briefly review the challenges that design poses for case-based reasoning and survey research on case-based design ranging from early explorations to more recent work on innovative design. we also summarize the theoretical contributions this research has made to case-based reasoning itself. **case-based learning - university at buffalo** - case-based learning becomes case-based reasoning when more than one case is provided. case-based reasoning involves reasoning about multiple cases and how prior solutions can be adapted to new problems or how prior cases are related to new cases. for instance, in health administration, given two different hmo-managed clinical #. **case-based reasoning - pdfsmanticscholar** - case-based reasoning (cbr) is an artificial intelligence approach to learning and problem solving based on past experience. cbr combines aspects from the knowledge-based systems as well as from the machine learning field. in this chapter we present the main characteristics of cbr technology, describe the main **case-based reasoning (cbr) based path- - ijert** - case-based reasoning (cbr) system implements a simple form of dynamic memory that learns by adding new cases, as and when new problems are encountered and solved. in this paper, case-based reasoning is used for creating a case-base for path-planning. so different paths are stored as **case-based reasoning for insulin bolus advice** - calculators by the means of case-based reasoning (cbr), an established problem-solving methodology, by individualizing and optimizing insulin therapy for various meal situations. cbr learns from experiences of past similar meals, which are described in cases through a set of parameters (eg, time of meal, alcohol, exercise). **r model for case-based reasoning - researchgate** - r 5 model for case-based reasoning gavin finnie, zhaohao sun* school of information technology, bond university, gold coast 4229, australia ... case-based reasoning (cbr) systems are a particular ... **a case-based reasoning approach for task-driven spatial ...** - a case-based reasoning approach for task-driven spatial- temporally aware geospatial data discovery through geoportals ming li a,b,d,e, wei guob, lian duand,e and xinyan zhub,c a institute of space science and technology, nanchang university, nanchang, people's republic of china; bstate key laboratory of information engineering in surveying, mapping and remote sensing, wuhan university, wuhan, **the impact of online video cases on clinical reasoning in ...** - case-based reasoning in occupational therapy education has been used as a means of engaging students in learning and to support collaboration among students. the design of cases has included text-based cases, actors portraying clients, live interviews of clients, and videotapes of therapists and patients. **emergent case-based reasoning applications - iiii csic** - emergent case-based reasoning applications ramon lopez de mantaras1, petra perner2, padraig cunningham3 1artificial intelligence research institute - csic , campus uab, 08193 bellaterra, spain e-mail: mantaras@iiiiaic 2institute of computer vision and applied computer sciences, körnerstrasse 10, 04107 leipzig, germany e-mail: ibaiperner@aol 3ai group, department of computer science ... **case based reasoning in practice - göteborgs universitet** - case-based reasoning can be seen as the process of solving new problems associated with the solutions of similar past problems. a short classical definition of case-based reasoning is "a case-based reasoner solves problems by using or adapting solutions to old problems [4]." generally, a case-based reasoner will be presented a new problem ... **intelligent semantic case based reasoning system for fault ...** - ontology technology into a cbr system and proposes to combine semantic retrieval method and numerical measurement in case retrieval. ontology technology is an ideal selection for realizing our system thanks to the good semantic understanding offered by ontology. the resulting ontology based cbr system is applied in fault diagnosis **the bayesian case model: a generative approach for case ...** - the bayesian case model: a generative approach for case-based reasoning and prototype classification been kim, cynthia rudin and julie shah massachusetts institute of technology cambridge, massachusetts 02139 fbeenkim, rudin, julie a shahg@csail.mit abstract we present the bayesian case model (bcm), a general framework for bayesian **teaching clinical reasoning: case-based and coached** - teaching clinical reasoning: case-based and coached jerome p. kassirer, md abstract optimal medical care is critically dependent on clinicians' skills to make the right diagnosis and to recommend the most appropriate therapy, and acquiring such reasoning skills is a key requirement at every level of medical education. teaching clinical ... **a case based reasoning system for academic advising in ...** - c. case based reasoning in academic advising previous researches identified the most of academic advising problem and obstacles. this section will explore such techniques indepth. these techniques include: decision - support system, decision tree, data mining techniques, decision matrix, and rule-based reasoning. **a design of case-based decision making method by es in ...** - method based on a form model is more powerful and convenient abstract—a case-based reasoning has emerged as an alternative to rule-based techniques for the expert system design. this paper describes an application of case-based reasoning method to the expert system design for decision making. with user's requirements, the **problem-based learning meets case-based reasoning** - problem-based learning meets case-based reasoning janet l. kolodner, cindy e. hmelo, and n. hari narayanan the edutech institute college of computing georgia institute of technology atlanta, ga 30332-0280 {jlk, ceh, narayan}@cctech abstract: the modern education community agrees that deep and effective learning is **preliminary service life estimation model for mep ...** - sustainability article preliminary service life estimation model for mep components using case-based reasoning and genetic

algorithm nahyun kwon 1, kwonsik song 2, moonseo park 3, youjin jang 4, inseok yoon 3 and yonghan ahn 1,*
 1 department of architectural engineering, hanyang university, ansan 15588, korea; nhkwon78@naver 2
 department of civil and environmental engineering, university ... **intelligent layout for information
 display: an approach ...** - intelligent layout for information display: an approach using constraints and case-
 based reasoning by grace elizabeth colby b.s., design illinois institute of technology chicago, illinois 1985
 submitted to the media arts and sciences section, school of architecture and planning, in partial fulfillment of
 the requirements of **foundations of soft case-based reasoning** - scientists, professors s. k. pal and s. shiu,
 it breaks new ground in case-based reasoning and is likely to be viewed in retrospect as a milestone in its eld.
 case-based reasoning (cbr) is a body of concepts and techniques that touch upon some of the most basic
 issues relating to knowledge representation, reasoning, and learning from experience. **map asia 2009, 18-20
 august, 2009, singapore authors v. k ...** - map asia 2009, 18-20 august, 2009, singapore "an integrated
 approach to biogeography based optimization with case based reasoning for retrieving groundwater
 possibility" authors v. k nchal, harish kundra, amanpreet kaur seminar theme :technology integration
 retrievethe most similar case or cases. **implementation of decision support systems using case ...** -
 univerzitet u novom sadu prirodno-matematički fakultet departman za matematiku i informatiku vladimir
 kurbalija implementation of decision support systems using case based reasoning **drilledge: application of
 case-base reasoning*** - drilledge: application of case-base reasoning* timothy j. sheehy1 search and
 discovery article #70098 (2011) posted july 12, 2011 *adapted from presentation at aapg geoscience
 technology workshop, "success in the marcellus and utica shales: case studies and new developments,"
 baltimore, **an overview of case-based reasoning applications in ...** - an overview of case-based
 reasoning applications model-based reasoning (mbr) were introduced by other groups (e.g., abel et al. 1996
 and aamodt 2004). the cbr approach was initiated roughly 35years ago, assuming the work of schank and
 abelson (1977) to be considered the underlying early origins of cbr. several academic **case-based reasoning
 as a technique for knowledge ...** - case-based reasoning as a technique for knowledge management in
 business process redesign selma limam mansar and farhi marir london metropolitan university, uk
 smam@londonmet frir@londonmet hajo a. reijers eindhoven university of technology, the netherlands
 h.aijers@tm.tue **application of case based reasoning technique for advice ...** - based on first principle,
 to describe the dynamics of the process, comes with inherent limitations when trying to fit experience into
 equations. the uk based branch of tatasteel rd&t has success-fully developed an application of case based
 reasoning technology for predictive modelling in the steel industry. **intelligent aircraft maintenance
 support system using ...** - intelligent aircraft maintenance support system using genetic algorithms and
 case-based reasoning received: 30 december 2002/ accepted: 24 march 2003/published online: 5 august 2004
 springer-verlag london limited 2004 abstract the maintenance of aircraft components is crucial for avoiding
 aircraft accidents and aviation fatalities. **design, innovation and case-based reasoning - citeseerx -
 boundaries of case-based reasoning.** in this paper, we briefly review the challenges that design poses for case-
 based reasoning, and survey research on case-based design ranging from early explorations to more recent
 work on innovative design. we also summarize the theoretical contributions this research has made to case-
 based reasoning itself. **applying case-based reasoning and multi-agent intelligent ...** - applying case-
 based reasoning and multi-agent intelligent system to context-aware comparative shopping oh byung kwon*,
 norman sadeh isri, school of computer science, carnegie mellon university, 5000 forbes avenue, pittsburgh, pa
 15213, usa **journal of computing::a cbr-based approach to itil-based ...** - in case-based reasoning new
 problems are solved according to previous experiences and each solved problem serves as a new case which
 can be helpful in solving incoming problems. the lifecycle of cbr [16] is illustrated in figure-3. by considering
 figure-3 it can be observed that every case-based reasoning system should consist of [14]: a . case ...

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