K. Nökel

Temporally Distributed Symptoms in Technical Diagnosis
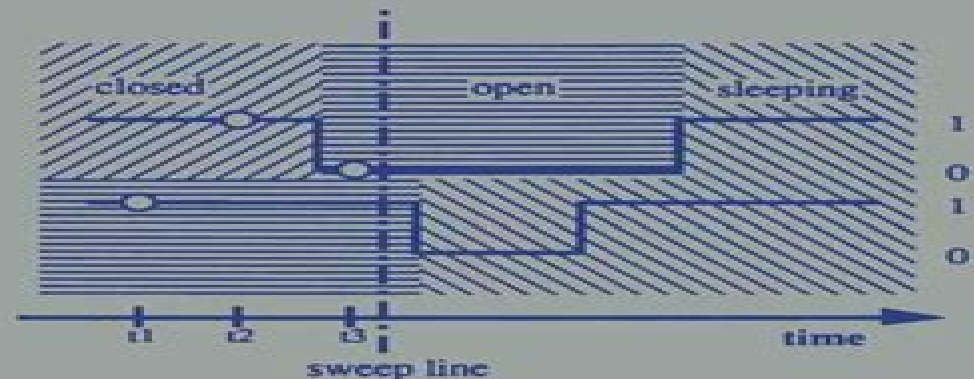
Temporally Distributed Symptoms In Technical Diagnosis Lecture Notes In Artificial Intelligence Volume 517

Zbigniew Raâs,Maria Zemankova

Temporally Distributed Symptoms In Technical Diagnosis Lecture Notes In Artificial Intelligence Volume 517:

Temporally Distributed Symptoms in Technical Diagnosis Klaus Nökel,1991-07-24 Complex machines can fail in complex ways Often the nature of the fault can be determined only through the interpretation of machine behavior over time This book presents a novel approach to the representation and recognition of temporally distributed symptoms Existing diagnostic expert systems usually operate under a set of simplifying assumptions that limit their applicability A common assumption is that the device to be diagnosed has a static behavior with the relation between inputs and outputs constant over time In most realistic application domains this assumption is violated and both the normal intended function of the device and the potential malfunctions are complex behaviors over time This book addresses the problem of systematically treating information about fault symptoms that are spread out over periods of time These symptoms are characterized by a specific order of events and in the general case a single snapshot of the device state does not suffice to recognize the symptoms Instead one has to plan a measurement sequence that consists of several observations at more than one time point Starting with a classification of various types of dynamic faulty behavior the author identifies temporally distributed systems TDSs and designs a representation language that allows TDSs to be specified in a declarative manner The definition of a successful match of a measurement sequence against a TDS specification is operationalized as an algorithm which plans such an observation sequence based on the TDS specification The author demonstrates that his novel solution is a generic paradigm independent building block for diagnostic expert systems by embedding it into the frameworks of both an associative and a model based diagnostic system The book will be valuable both for researchers working on applications of temporal reasoning and prospective users of technical expert systems *Handbook of Temporal Reasoning in Artificial Intelligence* Michael David Fisher,Dov M. Gabbay,Lluis Vila,2005-03-01 This collection represents the primary reference work for researchers and students in the area of Temporal Reasoning in Artificial Intelligence Temporal reasoning has a vital role to play in many areas particularly Artificial Intelligence Yet until now there has been no single volume collecting together the breadth of work in this area This collection brings together the leading researchers in a range of relevant areas and provides an coherent description of the breadth of activity concerning temporal reasoning in the filed of Artificial Intelligence Key Features Broad range foundations techniques and applications Leading researchers around the world have written the chapters Covers many vital applications Source book for Artificial Intelligence temporal reasoning Approaches provide foundation for many future software systems Broad range foundations techniques and applications Leading researchers around the world have written the chapters Covers many vital applications Source book for Artificial Intelligence temporal reasoning Approaches provide foundation for many future software systems **Management and Processing of Complex Data Structures** Kai von Luck,Heinz Marburger,1994-02-16 This volume presents the proceedings of the third workshop on Information Systems and Artificial Intelligence organized by the German Computer Science Society The 11 invited contributions by well known

researchers and developers working in the fields of databases and knowledge representation systems are centered around the topic of management and processing of complex data structures they give a representative snapshot of the state of the art in this fruitful interdisciplinary research area important for further progress in both information systems and artificial intelligence Most of the papers stress the demands for new or extended formalisms and their deductive capabilities including an analysis of their formal properties for managing complex structures *Resolution Methods for the Decision Problem* C. Fermüller,1993-07-29 This volume contains work on the decision problem done in Kazan Russia Tallinn Estonia and Vienna Austria The authors met several times to discuss and exchange their results and finally decided to write this monograph together Besides a unified treatment of previously published results there are many new results first presented in this volume The monograph opens with an introduction and a chapter on terminology followed by chapters on Semantic clash resolution as decision procedure Completeness of ordering refinements Semantic tree based resolution variants Deciding the class K by an ordering refinement A resolution based method for building finite models A final chapter on applications completes the volume **Trends in Artificial Intelligence** Salvatore Gaglio,1991-10-09 This book collects the scientific papers presented at the 2nd Congress of the Italian Association for Artificial Intelligence held in Palermo in October 1991 It displays the state of the art of both Italian and European scientific research in AI The book begins with an invited paper by W Wahlster et al The bulk of the book is then divided into five parts on Knowledge representation 18 papers Knowledge acquisition 5 papers Natural language 5 papers Perception and robotics 5 papers Architecture and technologies 5 papers A section containing short papers completes the book The high quality of the papers reflects massive research activity mainly devoted to the theoretical aspects of AI but clearly aimed at consolidating the results already achieved Several contributions are oriented to the technological aspects of AI **Fundamentals of Artificial Intelligence Research** Jozef Kelemen,1991-08-28 This volume contains 6 invited lectures and 13 submitted contributions to the scientific programme of the international workshop Fundamentals of Artificial Intelligence Research FAIR 91 held at Smolenice Castle Czechoslovakia September 8 12 1991 under the sponsorship of the European Coordinating Committee for Artificial Intelligence ECCAI FAIR 91 the first of an intended series of international workshops addresses issues which belong to the theoretical foundations of artificial intelligence considered as a discipline focused on concise theoretical description of some aspects of intelligence by toolsand methods adopted from mathematics logic and theoretical computer science The intended goal of the FAIR workshops is to provide a forum for the exchange of ideas and results in a domain where theoretical models play an essential role It is felt that such theoretical studies their development and their relations to AI experiments and applications have to be promoted in the AI research community **Processing Declarative Knowledge** Harold Boley,1991-12-04 This volume presents the proceedings of an international workshop on the processing of declarative knowledge The workshop was organized and hosted by the German Research Center for Artificial Intelligence DFKI in cooperation with the Association for Logic

Programming ALP and the Gesellschaft f r Informatik GI Knowledge is often represented using definite clauses rules constraints functions conceptual graphs and related formalisms The workshop addressed such high level representations and their efficient implementation required for declarative knowledge bases Many of the papers treat representation methods mainly concept languages and many treat implementation methods such as transformation techniques and WAM like abstract machines Several papers describe implemented knowledge processing systems The competition between procedural and declarative paradigms was discussed in a panel session and position statements of the panelists are included in the volume

   Logics in AI David Pearce,Gerd Wagner,1992-08-19 This volume contains the proceedings of JELIA 92 les Journ es Europ ennes sur la Logique en Intelligence Artificielle or the Third European Workshop on Logics in Artificial Intelligence The volume contains 2 invited addresses and 21 selected papers covering such topics as Logical foundations of logic programming and knowledge based systems Automated theorem proving Partial and dynamic logics Systems of nonmonotonic reasoning Temporal and epistemic logics Belief revision One invited paper by D Vakarelov is on arrow logics i e modal logics for representing graph information The other by L M Pereira J J Alferes and J N Apar cio is on default theory for well founded semantics with explicit negation   **Instantiation Theory** James G. Williams,1991-08-07 Instantiation Theory presents a new general unification algorithm that is of immediate use in building theorem provers and logic programming systems Instantiation theory is the study of instantiation in an abstract context that is applicable to most commonly studied logical formalisms The volume begins with a survey of general approaches to the study of instantiation as found in tree systems order sorted algebras algebraic theories composita and instantiation systems A classification of instantiation systems is given based on properties of substitutions degree of type strictness and well foundedness of terms Equational theories and the use of typed variables are studied in terms of quotient homomorphisms and embeddings respectively Every instantiation system is a quotient system of a subsystem of first order term instantiation The general unification algorithm is developed as an application of the basic theory Its soundness is rigorously proved and its completeness and efficiency are verfied for certain classes of instantiation systems Appropriate applications of the algorithm include unification of first order terms order sorted terms and first order formulas modulo alpha conversion as well as equational unification using simple congruences   *Nonmonotonic and Inductive Logic* Klaus P. Jantke,Peter H. Schmitt,1991-09-18 This proceedings volume contains revised and reviewed papers based on talks presented at the first International Workshop on Nonmonotonic and Inductive Logic held in Karlsruhe December 1990 The workshop was supported by the Volkswagen Stiftung Hannover and provided a forum for researchers from the two fields to communicate and find areas of cooperation The papersare organized into sections on Nonmonotonicity in logic programs Axiomatic approach to nonmonotonic reasoning Inductive inference Autoepistemic logic Belief updates The bulk of the papers are devoted to nonmonotonic logic and provide an up to date view of the current state of research presented by leading experts

in the field A novelty in the contributions from the area of inductive logic is the analysis of nonmonotonicity in the theory of inductive learning   Logic Programming in Action Gerard Comyn,Norbert E. Fuchs,1992-08-25 Logic programming enjoys a privileged position It is firmly rooted in mathematical logic yet it is also immensely practical as a growing number of users in universities research institutes and industry are realizing Logic programming languages specifically Prolog have turned out to be ideal as prototyping and application development languages This volume presents the proceedings of the Second Logic Programming Summer School LPSS 92 The First Logic Programming Summer School LPSS 90 addressed the theoretical foundations of logic programming This volume focuses onthe relationship between theory and practice and on practical applications The introduction to the volume is by R Kowalski one of the pioneers in the field The following papers are organized into sections on constraint logic programming deductive databases and expert systems processing of natural and formal languages software engineering and education   **Contemporary Knowledge Engineering and Cognition** Franz Schmalhofer,Gerhard Strube,1992-08-12 This book has its source in the question of whether any knowledge engineering tools can be applied or analyzed in cognition research and what insights and methods of cognitive science might be relevant for knowledge engineers It presents the proceedings of a workshop organized by the Special Interest Groups Cognition and Knowledge Engineering of the German Society for Informatics held in February 1992 in Kaiserslautern The book is structured into three parts The first part contrasts work in knowledge engineering with approaches from the side of the soft sciences The second part deals with case based approaches in expert systems Cognition research and the cognitive adequacy of expert systems are discussed in the third part Contributions from Canada England France Switzerland and the USA demonstrate how knowledge engineering and cognitive science are woven together internationally   **Machine Learning: ECML-93** Pavel B. Brazdil,1993-03-23 This volume contains the proceedings of the Eurpoean Conference on Machine Learning ECML 93 continuing the tradition of the five earlier EWSLs European Working Sessions on Learning The aim of these conferences is to provide a platform for presenting the latest results in the area of machine learning The ECML 93 programme included invited talks selected papers and the presentation of ongoing work in poster sessions The programme was completed by several workshops on specific topics The volume contains papers related to all these activities The first chapter of the proceedings contains two invited papers one by Ross Quinlan and one by Stephen Muggleton on inductive logic programming The second chapter contains 18 scientific papers accepted for the main sessions of the conference The third chapter contains 18 shorter position papers The final chapter includes three overview papers related to the ECML 93 workshops   **Extensions of Logic Programming** Evelina Lamma,Paola Mello,1993-02-12 This book contains papers which investigate how to extend logic programming toward the artificial intelligence and software engineering areas covering both theoretical and practical aspects Some papers investigate topics such as abductive reasoning and negation Some works discuss how to enhance the expressive power of logic programming by introducing

constraints sets and integration with functional programming Other papers deal with the structuring of knowledge into modules taxonomies and objects withthe aim of extending logic programming toward software engineering applications A section is devoted to papers concentrating on proof theory and inspired by Gentzen style sequent or natural deduction systems Topics such as concurrency are considered to enhance the expressive power of logic languages Finally some papers mainly concernimplementation techniques for some of these logic programming extensions **A Resolution Principle for a Logic with Restricted Quantifiers** Hans-Jürgen Bürckert,1991 This monograph presents foundations for a constrained logic scheme treating constraints as a very general form of restricted quantifiers The constraints or quantifier restrictions are taken from a general constraint system consisting of constraint theory and a set of distinguished constraints The book provides a calculus for this constrained logic based on a generalization of Robinson s resolution principle Technically the unification procedure of the resolution rule is replaced by suitable constraint solving methods The calculus is proven sound and complete for the refutation of sets of constrained clauses Using a new and elegant generalization of the notion ofa ground instance the proof technique is a straightforward adaptation of the classical proof technique The author demonstrates that the constrained logic scheme can be instantiated by well known sorted logics or equational theories and also by extensions of predicate logics with general equational constraints or concept description languages *Spatial and Temporal Reasoning* O. Stock,2007-07-27 Qualitative reasoning about space and time a reasoning at the human level promises to become a fundamental aspect of future systems that will accompany us in daily activity The aim of Spatial and Temporal Reasoning is to give a picture of current research in this area focusing on both representational and computational issues The picture emphasizes some major lines of development in this multifaceted constantly growing area The material in the book also shows some common ground and a novel combination of spatial and temporal aspects of qualitative reasoning Part I presents the overall scene The chapter by Laure Vieu is on the state of the art in spatial representation and reasoning and that by Alfonso Gerevini gives a similar survey on research in temporal reasoning The specific contributions to these areas are then grouped in the two main parts In Part II Roberto Casati and Achille Varzi examine the ontological status of spatial entities Anthony Cohn Brandon Bennett John Gooday and Nicholas Gotts present a detailed theory of reasoning with qualitative relations about regions Andrew Frank discusses the spatial needs of geographical information systems and Annette Herskovits focuses on the linguistic expression of spatial relations In Part III James Allen and George Ferguson describe an interval temporal logic for the representation of actions and events Drew McDermott presents an efficient way of predicting the outcome of plan execution and Erik Sandewall introduces a semantics based on transitions for assessing theories of action and change In Part IV Antony Galton s chapter stands clearly between the two areas of space and time and outlines the main coordinates of an integrated approach *Methodologies for Intelligent Systems* Zbigniew Raâs,Maria Zemankova,1991-09-25 This volume contains the papers selected for presentation at the Sixth International Symposium on

Methodol ogies for Intelligent Systems held in Charlotte North Carolina in October 1991 The symposium was hosted by UNC Charlotte and sponsored by IBM Charlotte ORNL CESAR and UNC Charlotte The papers discuss topics in the following major areas Approximate reasoning Expert systems Intelligent databases Knowledge representation Learning and adaptive systems Logic for artificial intelligence The goal of the symposium was to provide a platform for a useful exchange and cross fertilization of ideas between theoreticians and practitioners in these areas   **EPIA'91** Pedro Barahona,Luis Moniz Pereira,Antonio Porto,1991-09-23 The Portuguese Association for Artificial Intelligence has been organizing Portuguese Conferences on Artificial Intelligence now held every second year since 1985 This volume contains selected papers from the Fifth Conference on Artificial Intelligence The conference has an international status 62 contributions from 13 countries were received of which 26 were from Portugal To guarantee a high scientific standard all the contributions were reviewed by at least three researchers and only 20 papers were accepted and included in these proceedings The papers are organized into sections on constraints search knowledge representation temporal reasoning planning diagnosis and repair and learning

   European Workshop on Planning Joachim Hertzberg,1991-08-28 Planning formulating a course of action and related fields like scheduling or reasoning about action have a long research tradition in artificial intelligence However there seems to have been a communications problem among European planners with many of them unaware of good work done in neighboring countries This volume contains ten papers presented at the European Workshop on Planning held in Sankt Augustin Germany March 1991 The purpose of the workshop was to provide a forum for presenting work in planning and related areas done by European researchers The papers provide a snapshot of planning research at present being done in Europe They describe work in the areas of plan generation logical approaches to planning planning under uncertainty planning with time and semantics of plans   *Artificial Intelligence and Statistics 2001* Tommi Sakari Jaakkola,Thomas S. Richardson,2001 Artificial Intelligence and Statistics 2001 Proceedings of the Eighth Internatinoal Workshop

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Table of Contents Temporally Distributed Symptoms In Technical Diagnosis Lecture Notes In Artificial Intelligence Volume 517

- Integration of Multimedia Elements
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web with no offer of marriage in sight emily is still single by the time she turns thirty the day after mr grierson s death the women of the town call on emily to offer their condolences meeting them at the door emily states that her father is not dead a charade that she keeps up for three days

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