

Validating Verifying Knowledge Based S

Reference Information for the Software Verification and Validation Process Dolores R. Wallace 1996 Computing systems are employed in the health care environment in efforts to increase reliability of care and reduce costs. Software verification and validation (V&V) is an aid in determining that the software requirements are implemented correctly and completely and are traceable to system requirements. It helps to ensure that those system functions controlled by software are secure, reliable, and maintainable. Software V&V is conducted throughout the planning, development and maintenance of software systems, including knowledge based systems, and may assist in assuring appropriate reuse of software.

Handbook for Evaluating Knowledge-Based Systems Leonard Adelman 2012-12-06 Knowledge-based systems are increasingly found in a wide variety of settings and this handbook has been written to meet a specific need in their widening use. While there have been many successful applications of knowledge-based systems, some applications have failed because they never received the corrective feedback that evaluation provides for keeping development focused on the users' needs in their actual working environment. This handbook provides a conceptual framework and compendium of methods for performing evaluations of knowledge-based systems during their development. Its focus is on the users' and subject matter experts' evaluation of the usefulness of the system, and not on the developers' testing of the adequacy of the programming code. The handbook permits evaluators to systematically answer the following kinds of questions: Does the knowledge-based system meet the users' task requirements? Is the system easy to use? Is the knowledge base logically consistent? Does it meet the required level of expertise? Does the system improve performance? The authors have produced a handbook that will serve two audiences: a tool that can be used to create knowledge-based systems (practitioners, developers, and evaluators) and a framework that will stimulate more research in the area (academic researchers and students). To accomplish this, the handbook is built around a conceptual framework that integrates the different types of evaluations into the system of development process. The kinds of questions that can be answered, and the methods available for answering them, will change throughout the system development life cycle. And throughout this process, one needs to know what can be done, and what can't. It is this dichotomy that addresses needs in both the practitioner and academic research audiences.

ECAI 92 Bernd Neumann 1992

Validation and Verification of Knowledge Based Systems Anca Vermesan 2013-04-17 Knowledge-based (KB) technology is being applied to complex problem-solving and critical tasks in many application domains. Concerns have naturally arisen as to the dependability of knowledge-based systems (KBS). As with any software, attention to quality and safety must be paid throughout development of a KBS and rigorous verification and validation (V&V) techniques must be employed. Research in V&V of KBS has emerged as a distinct field only in the last decade and is intended to address issues associated with quality and safety aspects of KBS and to credit such applications with the same degree of dependability as conventional applications. In recent years, V&V of KBS has been the topic of annual workshops associated with the main AI conferences, such as AAI, IJACI and ECAI. *Validation and Verification of Knowledge Based Systems* contains a collection of papers, dealing with all aspects of KBS V&V, presented at the Fifth European Symposium on Verification and Validation of Knowledge Based Systems and Components (EUROVAV'99 - which was held in Oslo in the summer of 1999, and was sponsored by Det Norske Veritas and the British Computer Society's Specialist Group on Expert Systems (SGES).

Verification and Validation of Knowledge-based Systems W. T. Tsai 1997 Abstract: "Knowledge-Based systems are being used in many applications areas where their failures can be costly because of the losses in services, property or even life. To ensure their reliability and dependability, it is important that these systems are verified and validated before they are deployed. This paper provides perspectives on issues and problems that impact the Verification and Validation (V & V) of these systems. Some of [sic] reasons why V & V of Knowledge-Based systems is difficult are presented. The paper also provides an overview of different techniques and tools that have been developed for performing V & V activities. Finally, some of the research issues that are relevant for future work in this field are discussed."

Current Trends in Knowledge Acquisition Bob Wielinga 1990 Knowledge acquisition has become a major area of artificial intelligence and cognitive science research. The papers in this book show that the area of knowledge acquisition for knowledge-based systems is still a diverse field in which a large number of research topics are being addressed. However, several main themes run through the papers. First, the issues of integrating knowledge from different sources and K.A. tools is a salient topic in many papers. A second major topic in the papers is that of knowledge modelling. Research in knowledge-based systems emphasises the use of generic models of reasoning and its underlying knowledge. An important trend in the area of knowledge modelling aims at the formalisation of knowledge models. Where the field of knowledge acquisition was without tools and techniques years ago, now there is a rapidly growing body of techniques and tools. Apart from the integrated workbenches already mentioned above, several papers in this book present new tools. Although knowledge acquisition and machine learning have been considered as separate subfields of AI, there is a tendency for the two fields to come together. This publication combines machine learning techniques with more conventional knowledge elicitation techniques. A framework is presented in which reasoning, problem solving and learning together form a knowledge intensive system that can acquire knowledge from its own experience.

Verification of Knowledge Shared Across Design and Manufacture Using a Foundation Ontology Najam A. Anjum 2011 Seamless computer-based knowledge sharing between departments of a manufacturing enterprise is useful in preventing unnecessary design revisions. A lack of interoperability between independently developed knowledge bases, however, is a major impediment in the development of a seamless knowledge sharing system. Interoperability, being an ability to overcome semantic and syntactic differences during computer-based knowledge sharing can be enhanced through the use of ontologies. Ontologies in computer science terms are hierarchical structures of knowledge stored in a computer-based knowledge base. Ontologies have been accepted by all as an interoperable medium to provide a non-subjective way of storing and sharing knowledge across diverse domains. Some semantic and syntactic differences, however, still crop up when these ontological knowledge bases are developed independently. A case study in an aerospace components manufacturing company suggests that shape features of a component are perceived differently by the designing and manufacturing departments. These differences cause further misunderstanding and misinterpretation when computer-based knowledge sharing systems are used across the two domains. Foundation or core ontologies can be used to overcome these differences and to ensure a seamless sharing of knowledge. This is because these ontologies provide a common grounding for domain ontologies to be used by individual domains or department. This common grounding can be used by the mediation and knowledge verification systems to authenticate the meaning of knowledge understood across different domains. For this reason, this research proposes a knowledge verification framework for developing a system capable of verifying knowledge between those domain ontologies which are developed out of a common core or foundation ontology. This framework makes use of ontology logic to standardize the way concepts from a foundation and core-concepts ontology are used in domain ontologies and then by using the same principles the knowledge being shared is verified. The Knowledge Frame Language which is based on Common Logic is used for formalizing example ontologies. The ontology editor used for browsing and querying ontologies is the Integrated Ontology Development Environment (IODE) by Highfleet Inc. An ontological product modelling technique is also developed in this research, to test the proposed framework in the scenario of manufacturability analysis. The proposed framework is then validated through a Java API specially developed for this purpose. Real industrial examples experienced during the case study are used for validation.

Software Quality Approaches: Testing, Verification, and Validation Michael Haug 2012-12-06 C. Amting Directorate General Information Society, European Commission, Brussels th Under the 4 Framework of European Research, the European Systems and Soft ware Initiative (ESSI) was part of the ESPRIT Programme. This initiative funded more than 470 projects in the area of software and system process improvements. The majority of these projects were process improvement experiments carrying out and taking up new development processes, methods and technology within the

software development process of a company. In addition, nodes (centres of expertise), European networks (organisations managing local activities), training and dissemination actions complemented the process improvement experiments. ESSI aimed at improving the software development capabilities of European enterprises. It focused on best practice and helped European companies to develop world class skills and associated technologies to build the increasingly complex and varied systems needed to compete in the marketplace. The dissemination activities were designed to build a forum, at European level, to exchange information and knowledge gained within process improvement experiments. Their major objective was to spread the message and the results of experiments to a wider audience, through a variety of different channels. The European Experience Exchange (UR-X) project has been one of these dissemination activities within the European Systems and Software Initiative (UR) (has collected the results of practitioner reports from numerous workshops in Europe and presents, in this series of books, the results of Best Practice achievements in European Companies over the last few years.

Verification and Validation of Rule-Based Expert Systems Suzanne Smith 2018-10-08 This book presents an innovative approach to verifying and validating rule-based expert systems. It features a complete set of techniques and tools that provide a more formal, objective, and automated means of carrying out verification and validation procedures. Many of the concepts behind these procedures have been adapted from conventional software, while others have required that new techniques or tools be created because of the uniqueness of rule-based expert systems. Verification and Validation of Rule-Based Expert Systems is a valuable reference for electrical engineers, software engineers, artificial intelligence experts, and computer scientists involved with object-oriented development, expert systems, and programming languages.

Advanced Environmental and Chemical Sensing Technology Tuan Vo-Dinh 2001

Knowledge-based Information Systems Derek Partridge 1995

Software Management Donald J. Reifer 2006-08-30 This Seventh Edition of Donald Reifer's popular, bestselling tutorial summarizes what software project managers need to know to be successful on the job. The text provides pointers and approaches to deal with the issues, challenges, and experiences that shape their thoughts and performance. To accomplish its goals, the volume explores recent advances in dissimilar fields such as management theory, acquisition management, globalization, knowledge management, licensing, motivation theory, process improvement, organization dynamics, subcontract management, and technology transfer. Software Management provides software managers at all levels of the organization with the information they need to know to develop their software engineering management strategies for now and the future. The book provides insight into management tools and techniques that work in practice. It also provides sufficient instructional materials to serve as a text for a course in software management. This new edition achieves a balance between theory and practical experience. Reifer systematically addresses the skills, knowledge, and abilities that software managers, at any level of experience, need to have to practice their profession effectively. This book contains original articles by leaders in the software management field written specifically for this tutorial, as well as a collection of applicable reprints. About forty percent of the material in this edition has been produced specifically for the tutorial. Contents: * Introduction * Life Cycle Models * Process Improvement * Project Management * Planning Fundamentals * Software Estimating * Organizing for Success * Staffing Essentials * Direction Advice * Visibility and Control * Software Risk Management * Metrics and Measurement * Acquisition Management * Emerging Management Topics "The challenges faced by software project managers are the gap between what the customers can envision and the reality on the ground and how to deal with the risks associated with this gap in delivering a product that meets requirements on time and schedule at the target costs. This tutorial hits the mark by providing project managers, practitioners, and educators with source materials on how project managers can effectively deal with this risk." -Dr. Kenneth E. Nidiffer, Systems & Software Consortium, Inc. "The volume has evolved into a solid set of foundation works for anyone trying to practice software management in a world that is increasingly dependent on software release quality, timeliness, and productivity." -Walker Royce, Vice President, IBM Software Services-Rational

Leveraging Applications of Formal Methods, Verification and Validation. Specialized Techniques and Applications Tiziana Margaria 2014-09-26 The two-volume set LNCS 8802 and LNCS 8803 constitutes the refereed proceedings of the 6th International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, ISoLA 2014, held in Imperial, Corfu, Greece, in October 2014. The total of 67 full papers was carefully reviewed and selected for inclusion in the proceedings. Featuring a track introduction to each section, the papers are organized in topical sections named: evolving critical systems; rigorous engineering of autonomic ensembles; automata learning; formal methods and analysis in software product line engineering; model-based code generators and compilers; engineering virtualized systems; statistical model checking; risk-based testing; medical cyber-physical systems; scientific workflows; evaluation and reproducibility of program analysis; processes and data integration in the networked healthcare; semantic heterogeneity in the formal development of complex systems. In addition, part I contains a tutorial on automata learning in practice; as well as the preliminary manifesto to the LNCS Transactions on the Foundations for Mastering Change with several position papers. Part II contains information on the industrial track and the doctoral symposium and poster session.

Guidelines for the Verification and Validation of Expert System Software and Conventional Software 1995 This report presents the results of the Knowledge Base Certification activity of the expert systems verification and validation (V & V) guideline development project which is jointly funded by the US Nuclear Regulatory Commission and the Electric Power Research Institute. The ultimate objective is the formulation of guidelines for the V & V of expert systems for use in nuclear power applications. This activity is concerned with the development and testing of various methods for assuring the quality of knowledge bases. The testing procedure used was that of behavioral experiment, the first known such evaluation of any type of V & V activity. The value of such experimentation is its capability to provide empirical evidence for -- or against -- the effectiveness of plausible methods in helping people find problems in knowledge bases. The three-day experiment included 20 participants from three nuclear utilities, the Nuclear Regulatory Commission's Technical training Center, the University of Maryland, EG & G Idaho, and SAIC. The study used two real nuclear expert systems: a boiling water reactor emergency operating procedures tracking system and a pressurized water reactor safety assessment systems. Ten participants were assigned to each of the expert systems. All participants were trained in and then used a sequence of four different V & V methods selected as being the best and most appropriate for study on the basis of prior evaluation activities. These methods either involved the analysis and tracing of requirements to elements in the knowledge base (requirements grouping and requirements tracing) or else involved direct inspection of the knowledge base for various kinds of errors. Half of the subjects within each system group used the best manual variant of the V & V methods (the control group), while the other half were supported by the results of applying real or simulated automated tools to the knowledge bases (the experimental group).

Verification and Validation of Knowledge-Based Systems Robert Plant 1997

Verification and Validation in Systems Engineering Mourad Debbabi 2010-11-16 At the dawn of the 21st century and the information age, communication and computing power are becoming ever increasingly available, virtually pervading almost every aspect of modern socio-economical interactions. Consequently, the potential for realizing a significantly greater number of technology-mediated activities has emerged. Indeed, many of our modern activities are heavily dependant upon various underlying systems and software-intensive platforms. Such technologies are commonly used in everyday activities such as commuting, traffic control and management, mobile computing, navigation, mobile communication. Thus, the correct function of the forenamed computing systems becomes a major concern. This is all the more important since, in spite of the numerous updates, patches and firmware revisions being constantly issued, newly discovered logical bugs in a wide range of modern software platforms (e. g. , operating systems) and software-intensive systems (e. g. , embedded systems) are just as frequently being reported. In addition, many of today's products and services are presently being deployed in a highly competitive environment wherein a product or service is succeeding in most of the cases thanks to its quality to price ratio for a given set of features. Accordingly, a number of critical aspects have to be considered, such as the ability to pack as many features as needed in a given product or service while currently maintaining high quality, reasonable price, and short time-to-market.

ECAI 2010 European Coordinating Committee for Artificial Intelligence 2010 LC copy bound in 2 v.: v. 1, p. 1-509; v. 2, p. [509]-1153.

Guidelines for the Verification and Validation of Expert System Software and Conventional Software 1995 This eight-volume report presents guidelines for performing verification and validation (V & V) on Artificial Intelligence (AI) systems with nuclear applications. The guidelines have much broader application than just expert systems; they are also applicable to object-oriented programming systems, rule-based systems, frame-based systems, model-based systems, neural nets, genetic algorithms, and conventional software systems. This is because many of the components of AI systems are implemented in conventional procedural programming languages, so there is no real distinction. The report examines the state of the art in verifying and validating expert systems. V & V methods traditionally applied to conventional software systems are evaluated for their applicability to expert systems. One hundred fifty-three conventional techniques are identified and evaluated. These methods are found to be useful for at least some of the components of expert systems, frame-based systems, and object-oriented systems. A taxonomy of 52 defect types and their detectability by the 153 methods is presented. With specific regard to expert systems, conventional V & V methods were found to apply well to all the components of the expert system with the exception of the knowledge base. The knowledge base requires extension of the existing methods. Several innovative static verification and validation methods for expert systems have been identified and are described here, including a method for checking the knowledge base {open_quotes} semantics {close_quotes} and a method for generating validation scenarios. Evaluation of some of these methods was performed both analytically and experimentally. A V & V methodology for expert systems is presented based on three factors: (1) a system's judged need for V & V (based in turn on its complexity and degree of required integrity); (2) the life-cycle phase; and (3) the system component being tested.

Robotics, Automation and Control Pavla Pecherková 2008-10-01 This book was conceived as a gathering place of new ideas from academia, industry, research and practice in the fields of robotics, automation and control. The aim of the book was to point out interactions among various fields of interests in spite of diversity and narrow specializations which prevail in the current research. The common denominator of all included chapters appears to be a synergy of various specializations. This synergy yields deeper understanding of the treated problems. Each new approach applied to a particular problem can enrich and inspire improvements of already established approaches to the problem.

Effects of Transportation on Energy and Air Quality 1997

Integrated Approaches in Information Technology and Web Engineering: Advancing Organizational Knowledge Sharing Alkhatib, Ghazi I. 2008-11-30 Provides a collection of authoritative articles from distinguished international researchers in information technology and Web engineering.

Handbook for Evaluating Knowledge-Based Systems Leonard Adelman 1997-04-30 Knowledge-based systems are increasingly found in a wide variety of settings and this handbook has been written to meet a specific need in their widening use. While there have been many successful applications of knowledge-based systems, some applications have failed because they never received the corrective feedback that evaluation provides for keeping development focused on the users' needs in their actual working environment. This handbook provides a conceptual framework and compendium of methods for performing evaluations of knowledge-based systems during their development. Its focus is on the users' and subject matter experts' evaluation of the usefulness of the system, and not on the developers' testing of the adequacy of the programming code. The handbook permits evaluators to systematically answer the following kinds of questions: Does the knowledge-based system meet the users' task requirements? Is the system easy to use? Is the knowledge base logically consistent? Does it meet the required level of expertise? Does the system improve performance? The authors have produced a handbook that will serve two audiences: a tool that can be used to create knowledge-based systems (practitioners, developers, and evaluators) and a framework that will stimulate more research in the area (academic researchers and students). To accomplish this, the handbook is built around a conceptual framework that integrates the different types of evaluations into the system of development process. The kinds of questions that can be answered, and the methods available for answering them, will change throughout the system development life cycle. And throughout this process, one needs to know what can be done, and what can't. It is this dichotomy that addresses needs in both the practitioner and academic research audiences.

Validating and Verifying Knowledge-based Systems Uma G. Gupta 1991 This collection of previously published papers brings together state-of-the-art developments in expert system testing. The volume is separated into five chapters on expert system validation, knowledge base verification, development and evaluation, case studies and tools, and general topics. The paper

Verification, Validation, and Testing of Engineered Systems Avner Engel 2010-06-15 Systems' Verification Validation and Testing (VVT) are carried out throughout systems' lifetimes. Notably, quality-cost expended on performing VVT activities and correcting system defects consumes about half of the overall engineering cost. Verification, Validation and Testing of Engineered Systems provides a comprehensive compendium of VVT activities and corresponding VVT methods for implementation throughout the entire lifecycle of an engineered system. In addition, the book strives to alleviate the fundamental testing conundrum, namely: What should be tested? How should one test? When should one test? And, when should one stop testing? In other words, how should one select a VVT strategy and how it be optimized? The book is organized in three parts: The first part provides introductory material about systems and VVT concepts. This part presents a comprehensive explanation of the role of VVT in the process of engineered systems (Chapter-1). The second part describes 40 systems' development VVT activities (Chapter-2) and 27 systems' post-development activities (Chapter-3). Corresponding to these activities, this part also describes 17 non-testing systems' VVT methods (Chapter-4) and 33 testing systems' methods (Chapter-5). The third part of the book describes ways to model systems' quality cost, time and risk (Chapter-6), as well as ways to acquire quality data and optimize the VVT strategy in the face of funding, time and other resource limitations as well as different business objectives (Chapter-7). Finally, this part describes the methodology used to validate the quality model along with a case study describing a system's quality improvements (Chapter-8). Fundamentally, this book is written with two categories of audience in mind. The first category is composed of VVT practitioners, including Systems, Test, Production and Maintenance engineers as well as first and second line managers. The second category is composed of students and faculties of Systems, Electrical, Aerospace, Mechanical and Industrial Engineering schools. This book may be fully covered in two to three graduate level semesters; although parts of the book may be covered in one semester. University instructors will most likely use the book to provide engineering students with knowledge about VVT, as well as to give students an introduction to formal modeling and optimization of VVT strategy.

Verifying and Validating Personal Computer-based Expert Systems Terry Bahill 1991

Proceedings of the ... International Conference on Information and Knowledge Management 1993

Verification and Validation in Scientific Computing William L. Oberkampf 2010-10-14 Advances in scientific computing have made modelling and simulation an important part of the decision-making process in engineering, science, and public policy. This book provides a comprehensive and systematic development of the basic concepts, principles, and procedures for verification and validation of models and simulations. The emphasis is placed on models that are described by partial differential and integral equations and the simulations that result from their numerical solution. The methods described can be applied to a wide range of technical fields, from the physical sciences, engineering and technology and industry, through to environmental regulations and safety, product and plant safety, financial investing, and governmental regulations. This book will be genuinely welcomed by researchers, practitioners, and decision makers in a broad range of fields, who seek to improve the credibility and reliability of simulation results. It will also be appropriate either for university courses or for independent study.

Industrial Knowledge Management Rajkumar Roy 2001 Enter a magical world of friendship and fun! In the sixth book of the first Secret Kingdom series, every fairy in the kingdom is at Glitter Beach to watch the magic being renewed in the kingdom for another year. But Queen Malice is also nearby... Can Ellie, Summer and Jasmine save the glitter dust and keep the magic alive? Secret Kingdom is a brand new series full of the things girls love most: special friendships, secrets and magical adventures. Newly confident readers will be swept away by the magical stories of three children whose courage and resourcefulness save a fantastical land from disaster. Full of all the things little girls love best: special friendships, secrets and magical adventures, all set in an incredible kingdom! Eye-catching illustrations throughout. Become best friends with Ellie, Summer and Jasmine - plus Trixi the pixie! Help Ellie, Summer and Jasmine save the Secret Kingdom from wicked Queen Malice and her naughty storm sprites. A new

exciting adventure in each and every book.

Digital Twin Driven Smart Design Fei Tao 2020-05-22 Digital Twin Driven Smart Design draws on the latest industry practice and research to establish a basis for the implementation of digital twin technology in product design. Coverage of relevant design theory and methodology is followed by detailed discussions of key enabling technologies that are supported by cutting-edge case studies of implementation. This groundbreaking book explores how digital twin technology can bring improvements to different kinds of product design process, including functional, lean and green. Drawing on the work of researchers at the forefront of this technology, this book is the ideal guide for anyone interested in digital manufacturing or computer-aided design. Provides detailed case studies that explore key applications of digital twin technology in design practice Introduces the concept of using digital twins to create the virtual commissioning of design projects Presents a framework to help engineers incorporate digital twins into their product design process

Refinement Complements Verification and Validation 1902 Knowledge based systems are being applied in ever increasing numbers. The development of knowledge acquisition tools has eased the "Knowledge Acquisition Bottleneck". More recently there has been a demand for mechanisms to assure the quality of knowledge based systems. Checking the contents of the knowledge base and the performance of the knowledge based systems at various stages throughout its life cycle is an important component of quality assurance. Hence, the demand now is for verification and validation tools. However, traditionally, verification and validation have identified possible faults in the knowledge base. In contrast, this paper advocates the use of knowledge refinement to correct identified faults in parallel with the ongoing verification and validation, thus easing the progress towards correct knowledge based systems. An automated refinement tool is described which uses the output from verification and validation tools to assemble evidence from which the refinement process can propose repairs. It is hoped that automated refinement in parallel with validation and verification may ease the "Knowledge V & V Bottleneck."

Industrial Knowledge Management Rajkumar Roy 2012-12-06 The book presents state of the art practices and research in the area of Knowledge Capture and Reuse in industry. This book demonstrates some of the successful applications of industrial knowledge management at the micro level. The Micro Knowledge Management (MicroKM) is about capture and reuse of knowledge at the operational, shopfloor and designer level. The readers will benefit from different frameworks, concepts and industrial case studies on knowledge capture and reuse. The book contains a number of invited papers from leading practitioners in the field and a small number of selected papers from active researchers. The book starts by providing the foundation for micro knowledge management through knowledge systematisation, analysing the nature of knowledge and by evaluating verification and validation technology for knowledge based system of frameworks for knowledge capture, reuse and development. A number integration are also provided. Web based framework for knowledge capture and delivery is becoming increasingly popular. Evolutionary computing is also used to automate design knowledge capture. The book demonstrates frameworks and techniques to capture knowledge from people, data and process and reuse the knowledge using an appropriate tool in the business. Therefore, the book bridges the gap between the theory and practice. The 'theory to practice' chapter discusses about virtual communities of practice, Web based approaches, case based reasoning and ontology driven systems for the knowledge management. Just-in-time knowledge delivery and support is becoming a very important tool for real-life applications.

Evidence Flow Graph Methods for Validation and Verification of Expert Systems 1989

Methods and Procedures for the Verification and Validation of Artificial Neural Networks Brian J. Taylor 2006-03-20 Neural networks are members of a class of software that have the potential to enable intelligent computational systems capable of simulating characteristics of biological thinking and learning. Currently no standards exist to verify and validate neural network-based systems. NASA Independent Verification and Validation Facility has contracted the Institute for Scientific Research, Inc. to perform research on this topic and develop a comprehensive guide to performing V&V on adaptive systems, with emphasis on neural networks used in safety-critical or mission-critical applications. Methods and Procedures for the Verification and Validation of Artificial Neural Networks is the culmination of the first steps in that research. This volume introduces some of the more promising methods and techniques used for the verification and validation (V&V) of neural networks and adaptive systems. A comprehensive guide to performing V&V on neural network systems, aligned with the IEEE Standard for Software Verification and Validation, will follow this book.

The Tenth Conference on Artificial Intelligence for Applications 1994

Initiatives in Information Technology and Geospatial Science for Transportation National Research Council (U.S.). Transportation Research Board 2003

Verification and Validation of Complex Systems: Human Factors Issues John A. Wise 2013-06-29 Despite its increasing importance, the verification and validation of the human-machine interface is perhaps the most overlooked aspect of system development. Although much has been written about the design and development process, very little organized information is available on how to verify and validate highly complex and highly coupled dynamic systems. Inability to evaluate such systems adequately may become the limiting factor in our ability to employ systems that our technology and knowledge allow us to design. This volume, based on a NATO Advanced Science Institute held in 1992, is designed to provide guidance for the verification and validation of all highly complex and coupled systems. Air traffic control is used as an example to ensure that the theory is described in terms that will allow its implementation, but the results can be applied to all complex and coupled systems. The volume presents the knowledge and theory in a format that will allow readers from a wide variety of backgrounds to apply it to the systems for which they are responsible. The emphasis is on domains where significant advances have been made in the methods of identifying potential problems and in new testing methods and tools. Also emphasized are techniques to identify the assumptions on which a system is built and to spot their weaknesses.

Ontology-Based Applications for Enterprise Systems and Knowledge Management Nazir Ahmad, Mohammad 2012-08-31 "This book provides an opportunity for readers to clearly understand the notion of ontology engineering and the practical aspects of this approach in the domains of two interest areas: Knowledge Management Systems and Enterprise Systems"--

Use of Metaknowledge in the Verification of Knowledge-based Systems Larry J. Morell 1989

Verification, Validation and Evaluation of TCM, a Knowledge-based System for Traffic Congestion Management Filippo Logi 1997

Incremental Lifecycle Validation of Knowledge-based Systems Through CommonKADS Feras Batarseh 2011

Validating Verifying Knowledge Based S

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