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KEY=KNOWLEDGE - EVIE MAXWELL

KNOWLEDGE ENGINEERING AND KNOWLEDGE MANAGEMENT. METHODS, MODELS, AND TOOLS

12TH INTERNATIONAL CONFERENCE, EKAW 2000, JUAN-LES-PINS, FRANCE, OCTOBER 2-6, 2000 PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 12th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2000, held in Juan-les-Pins, France in October 2000. The 28 revised full papers and six revised short papers presented were carefully reviewed and selected from a high number of high-quality submissions. The book offers topical sections on knowledge modeling languages and tools, ontologies, knowledge acquisition from texts, machine learning, knowledge management and electronic commerce, problem solving methods, knowledge representation, validation, evaluation and certification, and methodologies.

12TH INTERNATIONAL CONFERENCE ON VIBRATIONS IN ROTATING MACHINERY

PROCEEDINGS OF THE 12TH VIRTUAL CONFERENCE ON VIBRATIONS IN ROTATING MACHINERY (VIRM), 14-15 OCTOBER 2020

CRC Press Since 1976, the Vibrations in Rotating Machinery conferences have successfully brought industry and academia together to advance state-of-the-art research in dynamics of rotating machinery. 12th International Conference on Vibrations in Rotating Machinery contains contributions presented at the 12th edition of the conference, from industrial and academic experts from different countries. The book discusses the challenges in rotor-dynamics, rub, whirl, instability and more. The topics addressed include: - Active, smart vibration control - Rotor balancing, dynamics, and smart rotors - Bearings and seals - Noise vibration and harshness - Active and passive damping - Applications: wind turbines, steam turbines, gas turbines, compressors - Joints and couplings - Challenging performance boundaries of rotating machines - High power density machines - Electrical machines for aerospace - Management of extreme events - Active machines - Electric supercharging - Blades and bladed assemblies (forced response, flutter, mistuning) - Fault detection and condition monitoring - Rub, whirl and instability - Torsional vibration Providing the latest research and useful guidance, 12th International Conference on Vibrations in Rotating Machinery aims at those from industry or academia that are involved in transport, power, process, medical engineering, manufacturing or construction.

TOOLS AND ALGORITHMS FOR THE CONSTRUCTION AND ANALYSIS OF SYSTEMS

11TH INTERNATIONAL CONFERENCE, TACAS 2005, HELD AS PART OF THE JOINT EUROPEAN CONFERENCE ON THEORY AND PRACTICE OF SOFTWARE, ETAPS 2005, EDINBURGH, UK, APRIL 4-8, 2004, PROCEEDINGS

Springer ETAPS 2005 was the eighth instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprised 7 conferences (CC, ESOP, FASE, FOSSACS, TACAS), 17 satellite workshops (AVIS, BYTECODE, CEES, CLASE, CMSB, COCV, FAC, FESCA, FINCO, GCW-DSE, GLPL, LDTA, QAPL, SC, SLAP, TGC, UITP), seven invited lectures (not including those that were specific to the satellite events), and several tutorials. We received over 550 submissions to the 7 conferences this year, giving acceptance rates below 30% for each one. Congratulations to all the authors who made it to the final program! I hope that most of the other authors still found a way of participating in this exciting event and I hope you will continue submitting. The events that comprise ETAPS address various aspects of the system development process, including specification, design, implementation, analysis and improvement. The languages, methodologies and tools which support these activities are all well within its scope. Different blends of theory and practice are represented, with an inclination towards theory with a practical motivation on the one hand and soundly based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.

CHANGE MANAGEMENT FOR DISTRIBUTED ONTOLOGIES

PRACTICAL APPLICATIONS OF COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, 12TH INTERNATIONAL CONFERENCE

Springer This book introduces the latest international research in the fields of bioinformatics and computational biology. It includes various studies in the area of machine learning in bioinformatics, systems biology, omics data analysis and mining, biomedical applications and sequences, which were selected by an international committee and presented at the 12th International Conference on Practical Applications of Computational Biology & Bioinformatics held in Toledo in June 2018.

ENCYCLOPEDIA OF KNOWLEDGE MANAGEMENT

IGI Global "This encyclopedia is a research reference work documenting the past, present, and possible future directions of knowledge management"--Provided by publisher.

FORMAL METHODS IN COMPUTER-AIDED DESIGN

5TH INTERNATIONAL CONFERENCE, FMCAD 2004, AUSTIN, TEXAS, USA, NOVEMBER 15-17, 2004, PROCEEDINGS

Springer These are the proceedings of the fifth international conference, Formal Methods in Computer-Aided Design (FMCAD), held 15-17 November 2004 in Austin, Texas, USA. The conference provides a forum for presenting state-of-the-art tools, methods, algorithms, and theory for the application of formalized reasoning to all aspects of computer-aided system design, including specification, verification, synthesis, and testing. FMCAD's heritage dates back 20 years to some of the earliest conferences on the subject of formal reasoning and computer-aided design. Since 1996, FMCAD has assumed its present form, held biennially in North America, alternating with its sister conference CHARME in Europe. We are delighted to report that our research community continues to flourish: we received 69 paper submissions, with many more high-quality papers than we had room to accept. After a rigorous review process, in which each paper received at least three, and typically four or more, independent reviews, we accepted 29 papers for the conference and inclusion in this volume. The conference also included invited talks from Greg Spirakis of Intel Corporation and Wayne Wolf of Princeton University. A conference of this size requires the contributions of numerous people. On the technical side, we are grateful to the program committee and the additional reviewers for their countless hours reviewing submissions and ensuring the intellectual quality of the conference. We would also like to thank the steering committee for their wisdom and guidance. On the logistical side, we thank Christa Mace for designing our website and attending to countless organizational tasks. And we thank our corporate sponsors - AMD, IBM, Intel, and Synopsys - for financial support that helped make this conference possible.

ICCWS 2017 12TH INTERNATIONAL CONFERENCE ON CYBER WARFARE AND SECURITY

Academic Conferences and publishing limited

FORMAL TECHNIQUES FOR NETWORKED AND DISTRIBUTED SYSTEMS - FORTE 2003

23RD IFIP WG 6.1 INTERNATIONAL CONFERENCE, BERLIN, GERMANY, SEPTEMBER 29 -- OCTOBER 2, 2003

Springer Science & Business Media This book constitutes the refereed proceedings of the 23rd IFIP WG 6.1 International Conference on Formal Techniques for Networked and Distributed Systems, FORTE 2003, held in Berlin, Germany in September/October 2003. The 24 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 55 submissions. The papers are organized in topical sections on application of formal description techniques (FDTs), verification, timed automata, verification of security protocols, testing, and FDT-based design.

KNOWLEDGE ENGINEERING AND KNOWLEDGE MANAGEMENT

METHODS, MODELS, AND TOOLS ; 12TH INTERNATIONAL CONFERENCE, JUAN-LES-PINS, FRANCE, OCTOBER 2-6, 2000 ; PROCEEDINGS

ALGORITHMIC BIOPROCESSES

Springer Science & Business Media A fundamental understanding of algorithmic bioprocesses is key to learning how information processing occurs in nature at the cell level. The field is concerned with the interactions between computer science on the one hand and biology, chemistry, and DNA-oriented nanoscience on the other. In particular, this book offers a

comprehensive overview of research into algorithmic self-assembly, RNA folding, the algorithmic foundations for biochemical reactions, and the algorithmic nature of developmental processes. The editors of the book invited 36 chapters, written by the leading researchers in this area, and their contributions include detailed tutorials on the main topics, surveys of the state of the art in research, experimental results, and discussions of specific research goals. The main subjects addressed are sequence discovery, generation, and analysis; nanoconstructions and self-assembly; membrane computing; formal models and analysis; process calculi and automata; biochemical reactions; and other topics from natural computing, including molecular evolution, regulation of gene expression, light-based computing, cellular automata, realistic modelling of biological systems, and evolutionary computing. This subject is inherently interdisciplinary, and this book will be of value to researchers in computer science and biology who study the impact of the exciting mutual interaction between our understanding of bioprocesses and our understanding of computation.

THEORY AND APPLICATION OF MULTI-FORMALISM MODELING

IGI Global With complex systems and complex requirements being a challenge that designers must face to reach quality results, multi-formalism modeling offers tools and methods that allow modelers to exploit the benefits of different techniques in a general framework intended to address these challenges. Theory and Application of Multi-Formalism Modeling boldly explores the importance of this topic by gathering experiences, theories, applications, and solutions from diverse perspectives of those involved with multi-formalism modeling. Professionals, researchers, academics, and students in this field will be able to critically evaluate the latest developments and future directions of multi-formalism research.

VERIFICATION OF COMMUNICATION PROTOCOLS IN WEB SERVICES

MODEL-CHECKING SERVICE COMPOSITIONS

John Wiley & Sons In the near future, wireless sensor networks will become an integral part of our day-to-day life. To solve different sensor networking related issues, researchers have been putting various efforts and coming up with innovative ideas. Within the last few years, we have seen a steep growth of research works particularly on various sensor node organization issues. The objective of this book is to gather recent advancements in the fields of self-organizing wireless sensor networks as well as to provide the readers with the essential information about sensor networking.

THE INVERSE METHOD

PARAMETRIC VERIFICATION OF REAL-TIME UNBEDDED SYSTEMS

John Wiley & Sons This book introduces state-of-the-art verification techniques for real-time embedded systems, based on the inverse method for parametric timed automata. It reviews popular formalisms for the specification and verification of timed concurrent systems and, in particular, timed automata as well as several extensions such as timed automata equipped with stopwatches, linear hybrid automata and affine hybrid automata. The inverse method is introduced, and its benefits for guaranteeing robustness in real-time systems are shown. Then, it is shown how an iteration of the inverse method can solve the good parameters problem for parametric timed automata by computing a behavioral cartography of the system. Different extensions are proposed particularly for hybrid systems and applications to scheduling problems using timed automata with stopwatches. Various examples, both from the literature and industry, illustrate the techniques throughout the book. Various parametric verifications are performed, in particular of abstractions of a memory circuit sold by the chipset manufacturer ST-Microelectronics, as well as of the prospective flight control system of the next generation of spacecraft designed by ASTRIUM Space Transportation. Contents: 1. Parametric Timed Automata. 2. The Inverse Method for Parametric Timed Automata. 3. The Inverse Method in Practice: Application to Case Studies. 4. Behavioral Cartography of Timed Automata. 5. Parameter Synthesis for Hybrid Automata. 6. Application to the Robustness Analysis of Scheduling Problems. 7. Conclusion and Perspectives. About the Authors Étienne André is Associate Professor in the Laboratoire d'Informatique de Paris Nord, in the University of Paris 13 (Sorbonne Paris Cité) in France. His current research interests focus on the verification of real-time systems. Romain Soulat is currently completing his PhD at the LSV laboratory at ENS-Cachan in France, focusing on the modeling and verification of hybrid temporal systems.

INTERNATIONAL JOINT CONFERENCE: 12TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE IN SECURITY FOR INFORMATION SYSTEMS (CISIS 2019) AND 10TH INTERNATIONAL CONFERENCE ON EUROPEAN TRANSNATIONAL EDUCATION (ICEUTE 2019)

SEVILLE, SPAIN, MAY 13TH-15TH, 2019 PROCEEDINGS

Springer This volume presents papers presented at CISIS 2019 and ICEUTE 2019, held in the beautiful and historic city of Seville (Spain) in May 2019. The 12th CISIS 2019 conference offered a meeting opportunity for academic and industry-related researchers from the various communities of computational intelligence, information security and data mining, and the need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, was the catalyst and the aggregation stimulus for the event. The book covers current topics such as cryptographic and data analytics solutions to fulfil least minimum privilege and endorse least minimum effort in information systems. The book also includes 15 papers from the 10th ICEUTE 2019, covering topics like new approaches to assess competencies and innovation in computer science education.

PROCEEDINGS OF FIRST INTERNATIONAL CONFERENCE ON COMPUTATIONAL ELECTRONICS FOR WIRELESS COMMUNICATIONS

ICWC 2021

Springer Nature This book includes high-quality papers presented at Proceedings of First International Conference on Computational Electronics for Wireless Communications (ICWC 2021), held at National Institute of Technology, Kurukshetra, Haryana, India, during June 11-12, 2021. The book presents original research work of academics and industry professionals to exchange their knowledge of the state-of-the-art research and development in computational electronics with an emphasis on wireless communications. The topics covered in the book are radio frequency and microwave, signal processing, microelectronics and wireless networks.

ICICKM2015-12TH INTERNATIONAL CONFERENCE ON INTELLECTUAL CAPITAL KNOWLEDGE MANAGEMENT & ORGANISATIONAL LEARNING

ICICKM2015

Academic Conferences and publishing limited

SOFTWARE SAFETY AND SECURITY

TOOLS FOR ANALYSIS AND VERIFICATION

IOS Press

THE 15TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING

CONFERENCE PROCEEDINGS

Springer Nature This book contains research papers that were accepted for presentation at the 15th International Conference on Interdisciplinarity in Engineering—INTER-ENG 2021, which was held on October 7-8, 2021, in the city of Târgu-Mureş, Romania. The general scope of the conference "Innovative aspects of Industry 4.0 concepts aimed at consolidating the digital future of manufacturing in companies" is proposing a new approach related to the development of a new generation of smart factories grounded on the manufacturing and assembly process digitalization. It is related to advance manufacturing technology, lean manufacturing, sustainable manufacturing, additive manufacturing, and manufacturing tools and equipment. It is a leading international professional and scientific forum of great interest for engineers and scientists who can read in this book research works contributions and recent developments as well as current practices in advanced fields of engineering.

RAILWAY SAFETY, RELIABILITY, AND SECURITY: TECHNOLOGIES AND SYSTEMS ENGINEERING

TECHNOLOGIES AND SYSTEMS ENGINEERING

IGI Global Human errors, as well as deliberate sabotage, pose a considerable danger to passengers riding on the modern railways and have created disastrous consequences. To protect civilians against both intentional and unintentional threats, rail transportation has become increasingly automated. Railway Safety, Reliability, and Security: Technologies and Systems Engineering provides engineering students and professionals with a collection of state-of-the-art methodological and technological notions to support the development and certification of real-time safety-critical railway control systems, as well as the protection of rail transportation infrastructures.

INFORMATION TECHNOLOGY: NEW GENERATIONS

13TH INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY

Springer This book collects articles presented at the 13th International Conference on Information Technology- New Generations, April, 2016, in Las Vegas, NV USA. It includes over 100 chapters on critical areas of IT including Web Technology, Communications, Security, and Data Mining.

INTELLIGENCE AND SECURITY INFORMATICS

IEEE INTERNATIONAL CONFERENCE ON INTELLIGENCE AND SECURITY INFORMATICS, ISI 2006, SAN DIEGO, CA, USA, MAY 23-24, 2006.

Springer Science & Business Media This book constitutes the refereed proceedings of the IEEE International Conference on Intelligence and Security Informatics, ISI 2006. Gathers 39 revised full papers, 30 revised short papers, and 56 extended poster abstracts, organized in topical sections including intelligence analysis and knowledge discovery; access control, privacy, and cyber trust; surveillance and emergency response; infrastructure protection and cyber security; terrorism informatics and countermeasures; surveillance, bioterrorism, and emergency response.

COMPUTATIONAL METHODS FOR OPTIMIZING MANUFACTURING TECHNOLOGY: MODELS AND TECHNIQUES

MODELS AND TECHNIQUES

IGI Global "This book contains the latest research developments in manufacturing technology and its optimization, and demonstrates the fundamentals of new computational approaches and the range of their potential application"--Provided by publisher.

ICEL 2017 - PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON E-LEARNING

Academic Conferences and publishing limited

FUNDAMENTAL APPROACHES TO SOFTWARE ENGINEERING

12TH INTERNATIONAL CONFERENCE, FASE 2009, HELD AS PART OF THE JOINT EUROPEAN CONFERENCES ON THEORY AND PRACTICE OF SOFTWARE, ETAPS 2009, YORK, UK, MARCH 22-29, 2009, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 12th International Conference on Fundamental Approaches to Software Engineering, FASE 2009, held in York, UK, in March 2009, as part of ETAPS 2009, the European Joint Conferences on Theory and Practice of Software. The 30 revised full papers presented together with 2 tool demonstrations were carefully reviewed and selected from 123 regular and 9 tool paper submissions. The topics addressed are model-driven development, synthesis and adaptation, modeling, testing and debugging, model analysis, patterns, security, queries and error handling, and tools (demos) and program analysis.

FACILITIES MANAGEMENT MODELS, METHODS AND TOOLS

RESEARCH RESULTS FOR PRACTICE

Routledge This book presents research tested models, methods and tools that can make the work of the facilities manager more robust and sustainable, help long-term strategic planning and support students and practitioners in FM to improve the way they approach and deal with challenges in practice. The 34 models, methods and tools are presented in relation to five typical challenges for facilities managers: Strategy development Organisational design Space planning Building projects Optimisation The chapters are short and concise, presenting a central illustration of one model, method or tool with explanatory text and short, exemplary case studies. Each chapter includes references to further reading, and the book includes a keyword index. Essential reading for all involved in the management of built assets, this book bridges the gap between robust academic research and practical industry tools. It can also be used as a handy student reference.

ECGBL 2018 12TH EUROPEAN CONFERENCE ON GAME-BASED LEARNING

Academic Conferences and publishing limited

MODEL-BASED SOFTWARE PERFORMANCE ANALYSIS

Springer Science & Business Media Poor performance is one of the main quality-related shortcomings that cause software projects to fail. Thus, the need to address performance concerns early during the software development process is fully acknowledged, and there is a growing interest in the research and software industry communities towards techniques, methods and tools that permit to manage system performance concerns as an integral part of software engineering. Model-based software performance analysis introduces performance concerns in the scope of software modeling, thus allowing the developer to carry on performance analysis throughout the software lifecycle. With this book, Cortellessa, Di Marco and Inverardi provide the cross-knowledge that allows developers to tackle software performance issues from the very early phases of software development. They explain the basic concepts of performance analysis and describe the most representative methodologies used to annotate and transform software models into performance models. To this end, they go all the way from performance primers through software and performance modeling notations to the latest transformation-based methodologies. As a result, their book is a self-contained reference text on software performance engineering, from which different target groups will benefit: professional software engineers and graduate students in software engineering will learn both basic concepts of performance modeling and new methodologies; while performance specialists will find out how to investigate software performance model building.

TOOLS AND ALGORITHMS FOR THE CONSTRUCTION AND ANALYSIS OF SYSTEMS

15TH INTERNATIONAL CONFERENCE, TACAS 2009, HELD AS PART OF THE JOINT EUROPEAN CONFERENCES ON THEORY AND PRACTICE OF SOFTWARE, ETAPS 2009, YORK, UK, MARCH 22-29, 2009, PROCEEDINGS

Springer Science & Business Media ETAPS 2009 was the 12th instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprised 7 conferences (CC, ESOP, FASE, FOSSACS, TACAS), 22 satellite workshops (ACCAT, ARSPA-WITS, Bytecode, COCV, COMPASS, FESCA, FinCo, FORMED, GaLoP, GT-VMT, HFL, LDTA, MBT, MLQA, OpenCert, PLACES, QAPL, RC, SafeCert, TAASN, TERMGRAPH, and WING), four tutorials, and seven invited lectures (excluding those that were specific to the satellite events). The 7 main conferences received 532 submissions (including 30 tool demonstration papers), 141 of which were accepted (10 tool demos), giving an overall acceptance rate of about 26%, with most of the conferences at around 25%. Congratulations therefore to all the authors who made it to the final programme! I hope that most of the other authors will still have found a way of participating in this exciting event, and that you will all continue submitting to ETAPS and contributing towards making it the best conference on software science and engineering. The events that comprise ETAPS address various aspects of the system development process, including specification, design, implementation, analysis and improvement. The languages, methodologies and tools which support these activities are all well within its scope. Different blends of theory and practice are represented, with an inclination towards theory with a practical motivation on the one hand and soundly based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.

FORMAL MODELING AND ANALYSIS OF TIMED SYSTEMS

13TH INTERNATIONAL CONFERENCE, FORMATS 2015, MADRID, SPAIN, SEPTEMBER 2-4, 2015, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 13th International Conference on Formal Modeling and Analysis of Timed Systems, FORMATS 2015, held in Madrid, Spain, in September 2015. The conference was organized under the umbrella of Madrid Meet 2015, a one week event focussing on the areas of formal and quantitative analysis of systems, performance engineering, computer safety, and industrial critical applications. The 19 papers presented in this volume were carefully reviewed and selected from 42 initial submissions.

ADVANCED INFORMATION SYSTEMS ENGINEERING

20TH INTERNATIONAL CONFERENCE, CAISE 2008 MONTPELLIER, FRANCE, JUNE 18-20, 2008, PROCEEDINGS

Springer CAISE 2008 was the 20th in the series of International Conferences on Advanced Information System Engineering. This edition continued the success of previous conferences, a success largely due to that fact that, since its first edition, this series has evolved in parallel with the evolution of the importance of information systems in economic development. CAISE has been able to follow, and often to anticipate, important changes that have occurred since 1978 when the first CAISE conference was organized by Arne Sølvberg and Janis Bubenko. In all these years, modern businesses and IT systems have been facing an ever more complex environment characterized by openness, variety and change. Furthermore, enterprises are experiencing ever more variety in their business in many dimensions. In the same way, the explosion of information technologies is overwhelming with a multitude of languages, platforms, devices, standards and products. Thus enterprises need to manage an environment to monitor the interplay of changes in the business processes, in information technologies, and at the ontological level, in order to achieve a sustainable development of their information systems. Enterprises must enter the era of sustainable information systems to face the important developmental challenges. During all these years, CAISE researchers have been challenged by all these changes, and the CAISE conferences provide a forum for presenting and debating important scientific results. In fact, CAISE is positioned at the core of these tumultuous processes, hosting new emerging ideas, fostering innovative processes of design and evaluation, developing new information technologies adapted to information systems, creating new kinds of models, but always being subject to rigorous scientific selection.

MULTI-PARADIGM MODELLING APPROACHES FOR CYBER-PHYSICAL SYSTEMS

Academic Press Multi-Paradigm Modelling for Cyber-Physical Systems explores modeling and analysis as crucial activities in the development of Cyber-Physical Systems, which are inherently cross-disciplinary in nature and require distinct modeling techniques related to different disciplines, as well as a common background knowledge. This book will serve as a reference for anyone starting in the field of CPS who needs a solid foundation of modeling, including a comprehensive introduction to existing techniques and a clear explanation of their advantages and limitations. This book is aimed at both researchers and practitioners who are interested in various modeling paradigms across computer science and engineering. Identifies key problems and offers solution approaches as well as tools which have been developed or are necessary for modeling paradigms across cyber physical systems Explores basic theory and current research topics, related challenges, and research directions for multi-paradigm modeling Provides a complete, conceptual overview and framework of the research done by the MPM4CPS working groups and the different types of modeling paradigms developed

COMPUTER AND CYBER SECURITY

PRINCIPLES, ALGORITHM, APPLICATIONS, AND PERSPECTIVES

CRC Press This is a monumental reference for the theory and practice of computer security. Comprehensive in scope, this text covers applied and practical elements, theory, and the reasons for the design of applications and security techniques. It covers both the management and the engineering issues of computer security. It provides excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely-used systems. This book is acclaimed for its scope, clear and lucid writing, and its combination of formal and theoretical aspects with real systems, technologies, techniques, and policies.

SOFTWARE TECHNOLOGY: METHODS AND TOOLS

51ST INTERNATIONAL CONFERENCE, TOOLS 2019, INNOPOLIS, RUSSIA, OCTOBER 15-17, 2019, PROCEEDINGS

Springer Nature This book constitutes the refereed proceedings of the 51st International Conference on Software Technology: Methods and Tools, TOOLS 2019, held in Innopolis, Russia, in October 2019. The 19 revised full papers and 13 short papers presented in this book were carefully reviewed and selected from 62 submissions. The papers discuss all aspects of software engineering and programming languages; machine learning; internet of things; security computer architectures and robotics; and projects.

GREEN TECHNOLOGY FOR SMART CITY AND SOCIETY

PROCEEDINGS OF GTSCS 2020

Springer Nature This book includes selected papers from the International Conference on Green Technology for Smart City and Society (GTSCS 2020), organized by the Institute of Technical Education and Research, Siksha 'O' Anusandhan University, Bhubaneswar, India, during 13-14 August 2020. The book covers topics such as machine learning, artificial intelligence, deep learning, optimization algorithm, IoT, signal processing, etc. The book is helpful for researchers working in the discipline of Electrical, Electronics and Computer Science. The researchers working in the allied domain of communication and control will also find the book useful as it deals with the latest methodologies and applications.

ENTERPRISE, BUSINESS-PROCESS AND INFORMATION SYSTEMS MODELING

12TH INTERNATIONAL CONFERENCE, BPMDS 2011, AND 16TH INTERNATIONAL CONFERENCE, EMMSAD 2011, HELD AT CAISE 2011, LONDON, UK, JUNE 20-21, 2011. PROCEEDINGS

Springer This book contains the refereed proceedings of the 12th International Conference on Business Process Modeling, Development and Support (BPMDS 2011) and the 16th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2011), held together with the 23rd International Conference on Advanced Information Systems Engineering (CAISE 2011) in London, UK, in June 2011. The 22 papers accepted for BPMDS were selected from 61 submissions and cover a wide spectrum of issues related to business processes development, modeling, and support. They are grouped into sections on BPMDS in practice, business process improvement, business process flexibility, declarative process models, variety of modeling paradigms, business process modeling and support systems development, and interoperability and mobility. The 16 papers accepted for EMMSAD were chosen from 31 submissions and focus on exploring, evaluating, and enhancing current information modeling methods and methodologies. They are grouped in sections on workflow and process modeling extensions, requirements analysis and information systems development, requirements evolution and information systems evolution, data modeling languages and business rules, conceptual modeling practice, and enterprise architecture.

MODERN SOFTWARE ENGINEERING CONCEPTS AND PRACTICES: ADVANCED APPROACHES

ADVANCED APPROACHES

IGI Global Software engineering has advanced rapidly in recent years in parallel with the complexity and scale of software systems. New requirements in software systems yield innovative approaches that are developed either through introducing new paradigms or extending the capabilities of well-established approaches. Modern Software Engineering Concepts and Practices: Advanced Approaches provides emerging theoretical approaches and their practices. This book includes case studies and real-world practices and presents a range of advanced approaches to reflect various perspectives in the discipline.

PRACTICAL DESIGN VERIFICATION

Cambridge University Press Improve design efficiency and reduce costs with this practical guide to formal and simulation-based functional verification. Giving you a theoretical and practical understanding of the key issues involved, expert authors including Wayne Wolf and Dan Gajski explain both formal techniques (model checking, equivalence checking) and simulation-based techniques (coverage metrics, test generation). You get insights into practical issues including hardware verification languages (HVLs) and system-level debugging. The foundations of formal and simulation-based techniques are covered too, as are more recent research advances including transaction-level modeling and assertion-based verification, plus the theoretical underpinnings of verification, including the use of decision diagrams and Boolean satisfiability (SAT).

QUANTITATIVE ASSESSMENTS OF DISTRIBUTED SYSTEMS

METHODOLOGIES AND TECHNIQUES

John Wiley & Sons Distributed systems employed in critical infrastructures must fulfill dependability, timeliness, and performance specifications. Since these systems most often operate in an unpredictable environment, their design and maintenance require quantitative evaluation of deterministic and probabilistic timed models. This need gave birth to an abundant literature devoted to formal modeling languages combined with analytical and simulation-based solution techniques. The aim of the book is to provide an overview of techniques and methodologies dealing with such specific issues in the context of distributed systems and covering aspects such as performance evaluation, reliability/availability, energy efficiency, scalability, and sustainability. Specifically, techniques for checking and verifying if and how a distributed system satisfies the requirements, as well as how to properly evaluate non-functional aspects, or how to optimize the overall behavior of the system, are all discussed in the book. The scope has been selected to provide a thorough coverage on issues, models, and techniques relating to validation, evaluation and optimization of distributed systems. The key objective of this book is to help to bridge the gaps between modeling theory and the practice in distributed systems through specific examples.

SELECTED PAPERS FROM SDEWES 2017: THE 12TH CONFERENCE ON SUSTAINABLE DEVELOPMENT OF ENERGY, WATER AND ENVIRONMENT SYSTEMS

MDPI This book is a printed edition of the Special Issue "Selected Papers from SDEWES 2017: The 12th Conference on Sustainable Development of Energy, Water and Environment Systems" that was published in Energies