

Transactions On Petri Nets And Other Models Of Co

Formal Methods in Manufacturing Javier Campos, Carla Seatzu, Xiaolan Xie. 2018-09-03 Illustrated with real-life manufacturing examples, Formal Methods in Manufacturing provides state-of-the-art solutions to common problems in manufacturing systems. Assuming some knowledge of discrete event systems theory, the book first delivers a detailed introduction to the most important formalisms used for the modeling, analysis, and control of manufacturing systems (including Petri nets, automata, and max-plus algebra), explaining the advantages of each formal method. It then employs the different formalisms to solve specific problems taken from today's industrial world, such as modeling and simulation, supervisory control (including deadlock prevention) in a distributed and/or decentralized environment, performance evaluation (including scheduling and optimization), fault diagnosis and diagnosability analysis, and reconfiguration. Containing chapters written by leading experts in their respective fields, Formal Methods in Manufacturing helps researchers and application engineers handle fundamental principles and deal with typical quality goals in the design and operation of manufacturing systems.

Business Process Management Workshops Florian Daniel, Quan Z. Sheng, Hamid Motahari. 2019-01-28 This book constitutes revised papers from the eight International Workshops held at the 16th International Conference on Business Process Management, BPM 2018, in Sydney, Australia, in September 2018: BPI 2018: 14th International Workshop on Business Process Intelligence; BPMS2 2018: 11th Workshop on Social and Human Aspects of Business Process Management; PODS4H 2018: 1st International Workshop on Process-Oriented Data Science for Healthcare; AI4BPM 2018: 1st International Workshop on Artificial Intelligence for Business Process Management; CCBPM 2018: 1st International Workshop on Emerging Computing Paradigms and Context in Business Process Management; BP-Meet-IoT / PQ 2018: Joint Business Processes Meet the Internet-of-Things and Process Querying Workshop; DeHMiMoP 2018: 1st Declarative/Decision/Hybrid Mining and Modelling for Business Processes Workshop; REBM /EdForum 2018: Joint Requirements Engineering and Business Process Management Workshop and Education Forum The 45 full papers presented in this volume were carefully reviewed and selected from 90 submissions.

Transactions on Petri Nets and Other Models of Concurrency IX Maciej Koutny, Serge Haddad, Alex Yakovlev. 2014-12-02 These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two-stage refereeing process. ToPNoC contains: - Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences - Special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series) - Other papers invited for publication in ToPNoC - Papers submitted directly to ToPNoC by their authors The 9th volume of ToPNoC contains revised and extended versions of a selection of the best workshop papers presented at the 34th International Conference on Application and Theory of Petri Nets and Concurrency (Petri Nets 2013) and the 13th International Conference on Application of Concurrency to System Design (ACSD 2013). It also contains one paper submitted directly to ToPNoC. The 8 papers cover a diverse range of topics including model checking and system verification, refinement and synthesis, foundational work on specific classes of Petri nets, and innovative applications of Petri nets and other models of concurrency. Application areas covered in this volume are: biological systems, communication protocols, business processes, distributed systems, and multi-agent systems. Thus, this volume gives a good view of ongoing concurrent systems and Petri nets research.

Petri Nets Michel Diaz. 2013-03-01 A Petri net is a mathematical representation of a network. This book first introduces the basic models including time and stochastic extensions, in particular place-transition and high level Petri nets. Their modeling and design capabilities are illustrated by a set of representations of interest in operating and communication systems. The volume then addresses the related verification problems and proposes corresponding solutions by introducing the main notions needed to fully understand the behavior and properties behind Petri nets. Particular attention is devoted to how systems can be fully represented and analyzed in terms of their behavioral, time, and stochastic aspects by using the same formal approach and semantic basis. Finally, illustrative examples are presented in the important fields of interoperability in telecommunication services, programming languages, multimedia architectures, manufacturing systems, and communication protocols.

Transactions on Petri Nets and Other Models of Concurrency XV Maciej Koutny, Fabrice Kordon, Lucia Pomello. 2021-02-24 The 15th volume of ToPNoC contains revised and extended versions of a selection of the best workshop and tutorial papers presented at the 40th International Conference on Application and Theory of Petri Nets and Concurrency, Petri Nets 2019, and the 19th International Conference on Application of Concurrency to System Design, ACSD 2019. The papers cover a diverse range of topics including model checking and system verification, refinement and synthesis; foundational work on specific classes of Petri nets; and innovative applications of Petri nets and other models of concurrency. Application areas covered in this volume are: process mining, verification, formal semantics, communication protocols, business processes, distributed systems, and net synthesis. Thus, this volume gives a good overview of ongoing research on concurrent systems and Petri nets.

Transactions on Petri Nets and Other Models of Concurrency XVII Maciej Koutny, Robin Bergenthum, Gianfranco Ciardo. 2023-10-31 Transactions on Petri Nets and Other Models of Concurrency (ToPNoC) XVII. These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two-stage refereeing process. ToPNoC contains: - Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences - Special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series) - Other papers invited for publication in ToPNoC - Papers submitted directly to ToPNoC by their authors The 17th volume of ToPNoC contains revised and extended versions of a selection of the best workshop and tutorial papers presented at the 43rd International Conference on Application and Theory of Petri Nets and Concurrency, Petri Nets 2022. The papers cover a diverse range of topics including model checking and system verification, refinement and synthesis, foundational work on specific classes of Petri nets, and innovative applications of Petri nets and other models of concurrency. Application areas covered in this volume are: process mining, verification, formal semantics, distributed simulations, business processes, distributed systems, and net synthesis. Thus, this volume gives a good overview of ongoing research on concurrent systems and Petri nets.

Transactions on Petri Nets and Other Models of Concurrency XVI Maciej Koutny, Fabrice Kordon, Daniel Moldt. 2022-04-19 The 16th volume of ToPNoC contains revised and extended versions of a selection of the best workshop and tutorial papers presented at the 41st International Conference on Application and Theory of Petri Nets and Concurrency, Petri Nets 2020, and the 20th International Conference on Application of Concurrency to System Design, ACSD 2020. The papers cover a diverse range of topics including model checking and system verification, refinement and synthesis; foundational work on specific classes of Petri nets; and innovative applications of Petri nets and other models of concurrency. Application areas covered in this volume are: process mining, verification, formal semantics, distributed simulations, business processes, distributed systems, and net synthesis. Thus, this volume gives a good overview of ongoing research on concurrent systems and Petri nets.

Application and Theory of Petri Nets and Concurrency Wil van der Aalst, Eike Best. 2017-05-04 This book constitutes the proceedings of the 38th International Conference on Application and Theory of Petri Nets and Concurrency, PETRI NETS 2017, held in Zaragoza, Spain, in June 2017. Petri Nets 2017 is co-located with the Application of Concurrency to System Design Conference, ACSD 2017. The 16 papers, 9 theory papers,

4 application papers, and 3 tool papers, with 1 short abstract and 3 extended abstracts of invited talks presented together in this volume were carefully reviewed and selected from 33 submissions. The focus of the conference is on following topics: Simulation of Colored Petri Nets, Petri Net Tools.- Model Checking, Liveness and Opacity, Stochastic Petri Nets, Specific Net Classes, and Petri Nets for Pathways.

On the Move to Meaningful Internet Systems, OTM 2010 Robert Meersman, Tharam Dillon, Pilar Herrero. 2010-11-04 The two-volume set of LNCS 6426/6427 constitutes the refereed proceedings of 3 confederated international conferences on CoopIS (Cooperative Information Systems), DOA (Distributed Objects and Applications) and ODBASE (Ontologies, DataBases and Applications of SEmantics). These conferences were held in October 2009 in Greece, in Hersonissos on the island of Crete. CoopIS is covering the applications of technologies in an enterprise context as workflow systems and knowledge management. DOA is covering the relevant infrastructure-enabling technologies and finally, OSBASE is covering WEB semantics, XML databases and ontologies. The 83 revised full papers presented together with 3 keynote talks were carefully reviewed and selected from a total of 223 submissions. Corresponding to the OTM main conferences the papers are organized in topical sections on process models and management, modeling of cooperation, services computing, information processing and management, human-based cooperative systems, ontology and workflow challenges, access control, authentication and policies, secure architectures, cryptography, data storage and processing, transaction and event management, virtualization performance, risk and scalability, cloud and distributed system security, reactivity and semantic data, ontology mapping and semantic similarity, domain specific ontologies.

Handbook of Research on Business Process Modeling Cardoso, Jorge, van der Aalst, Wil. 2009-04-30 This book aids managers in the transformation of organizations into world-class competitors through business process applications--Provided by publisher.

Transactions on Petri Nets and Other Models of Concurrency X Maciej Koutny, Jörg Desel, Serge Haddad. 2015-11-23 These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two-stage refereeing process. ToPNoC contains: - Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences- Special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series)- Other papers invited for publication in ToPNoC- Papers submitted directly to ToPNoC by their authors The 10th volume of ToPNoC contains revised and extended versions of a selection of the best workshop papers presented at the 35th International Conference on Application and Theory of Petri Nets and Concurrency, Petri Nets 2014, and the 14th International Conference on Application of Concurrency to System Design, ACS D 2014. It also contains one paper submitted directly to ToPNoC. The 8 papers cover a diverse range of topics including model checking and system verification, refinement, and synthesis; foundational work on specific classes of Petri nets; and innovative applications of Petri nets and other models of concurrency.

Design of Reconfigurable Logic Controllers Andrei Karatkevich, Arkadiusz Bukowiec, Michał Doligalski, Jacek Tkacz. 2015-12-23 This book presents the original concepts and modern techniques for specification, synthesis, optimisation and implementation of parallel logical control devices. It deals with essential problems of reconfigurable control systems like dependability, modularity and portability. Reconfigurable systems require a wider variety of design and verification options than the application-specific integrated circuits. The book presents a comprehensive selection of possible design techniques. The diversity of the modelling approaches covers Petri nets, state machines and activity diagrams. The preferences of the presented optimization and synthesis methods are not limited to increasing of the efficiency of resource use. One of the biggest advantages of the presented methods is the platform independence, the FPGA devices and single board computers are some of the examples of possible platforms. These issues and problems are illustrated with practical cases of complete control systems. If you expect a new look at the reconfigurable systems designing process or need ideas for improving the quality of the project, this book is a good choice.

Engineering and Deployment of Cooperative Information Systems Yanbo Han, Stefan Tai, Dietmar Wikarski. 2003-08-02 Today, technologies for engineering and deployment of cooperative information systems have become increasingly critical in the construction of practically all types of large-scale distributed systems. Stimulating forums with different focuses are thus still in need of researchers and professionals from academia and industry to exchange ideas and experience and to establish working relationships. The idea to organize in China an academic event focusing on current topics in the field was born during the IFIP World Computer Congress 2000 that was held in Beijing, China. And here are the proceedings of EDCIS 2002! This volume comprises the technical research papers accepted for presentation at EDCIS 2002. Of the initial 159 paper submissions involving nearly 500 authors from 14 countries of all continents, 45 papers were carefully selected. Every paper was reviewed by at least three members of the program committee, and judged - cording to its technical merit and soundness, originality, significance, presentation quality, and relevance to the conference. The accepted papers cover various subjects such as workflow technology, coordination technology, advanced transactions, groupware systems, semantic web, ontologies, mobile agents, and enterprise modeling, and enterprise application integration.

Timed Petri Nets Jiacun Wang. 2012-12-06 Driven by the request for increased productivity, flexibility, and competitiveness, modern civilization increasingly has created high-performance discrete event dynamic systems (DEDSs). These systems exhibit concurrent, sequential, competitive activities among their components. They are often complex and large in scale, and necessarily flexible and thus highly capital-intensive. Examples of systems are manufacturing systems, communication networks, traffic and logistic systems, and military command and control systems. Modeling and performance evaluation play a vital role in the design and operation of such high-performance DEDSs and thus have received widespread attention from researchers over the past two decades. One methodology resulting from this effort is based on timed Petri nets and related graphical and mathematical tools. The popularity that Petri nets have been gaining in modeling of DEDSs is due to their powerful representational ability of concurrency and synchronization; however these properties of DEDSs cannot be expressed easily in traditional formalisms developed for analysis of 'classical' systems with sequential behaviors. This book introduces the theories and applications of timed Petri nets systematically. Moreover, it also presents many practical applications in addition to theoretical developments, together with the latest research results and industrial applications of timed Petri nets. Timed Petri Nets: Theory and Application is intended for use by researchers and practitioners in the area of Discrete Event Dynamic Systems.

Formal Methods in Manufacturing Systems: Recent Advances Li, Zhiwu. 2013-05-31 Evolving technologies in mass production have led to the development of advanced techniques in the field of manufacturing. These technologies can quickly and effectively respond to various market changes, necessitating processes that focus on small batches of multiple products rather than large, single-product lines. Formal Methods in Manufacturing Systems: Recent Advances explores this shifting paradigm through an investigation of contemporary manufacturing techniques and formal methodologies that strive to solve a variety of issues arising from a market environment that increasingly favors flexible systems over traditional ones. This book will be of particular use to industrial engineers and students of the field who require a detailed understanding of current trends and developments in manufacturing tools. This book is part of the Advances in Civil and Industrial Engineering series collection.

Beyond Databases, Architectures, and Structures Stanislaw Kozielski, Dariusz Mrozek, Pawel Kasprowski, Bożena Małysiak-Mrozek, Daniel Kostrzewa. 2014-04-18 This book constitutes the refereed proceedings of the 10th IEEE International Conference Beyond Databases, Architectures, and Structures, BDAS 2014, held in Ustron, Poland, in May 2014. This book consists of 56 carefully revised selected papers that are assigned to 11 thematic groups: query languages, transactions and query optimization; data warehousing and big data; ontologies and semantic web; computational intelligence and data mining; collective intelligence, scheduling, and parallel processing; bioinformatics and biological data analysis; image analysis and multimedia mining; security of database systems; spatial data analysis; applications of database systems; Web and XML in database systems.

Transactions on Petri Nets and Other Models of Concurrency XIV Maciej Koutny, Lucia Pomello, Lars Michael Kristensen. 2019-11-20 The 14th volume of ToPNoC contains revised and extended versions of a selection of the best workshop and tutorial papers presented at the 39th International Conference on Application and Theory of Petri Nets and Concurrency, Petri Nets 2018, and the 18th International Conference on Application of Concurrency to System Design, ACSD 2018. The 10 papers cover a diverse range of topics including model checking and system verification, refinement, and synthesis; foundational work on specific classes of Petri nets; and innovative applications of Petri nets and other models of concurrency. Application areas covered in this volume are: process mining, verification, formal semantics, communication protocols, business processes, distributed systems, and net synthesis. Thus, this volume gives a good overview of ongoing research on concurrent systems and Petri nets.

Petri Nets and Other Models of Concurrency - ICATPN 2007 Jetty Kleijn, Alex Yakovlev. 2007-07-05 This book constitutes the refereed proceedings of the 28th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency, ICATPN 2007, held in Siedlce, Poland. It covers all current issues on research and development in the area of Petri nets and modeling of concurrent systems including system design and verification, structure and behavior of nets, logical and algebraic calculi, and standardization of nets.

Transactions on Petri Nets and Other Models of Concurrency VI Wil M. P. van der Aalst, Marco Ajmone Marsan, Giuliana Franceschinis, Jetty Kleijn, Lars M. Kristensen. 2012-11-14 These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two-stage refereeing process. ToPNoC contains: - Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences - Special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series) - Other papers invited for publication in ToPNoC - Papers submitted directly to ToPNoC by their authors. The sixth volume of ToPNoC includes revised versions of selected papers from workshops and tutorials held at the 32nd International Conference on Application and Theory of Petri Nets and Concurrency. It also contains a special section on Networks, Protocols, and Services, as well as a contributed paper submitted through the regular submission track of ToPNoC. The 14 papers cover a diverse range of topics including model checking and system verification, synthesis, foundational work on specific classes of Petri nets, and innovative applications of Petri nets and other models of concurrency. Thus this volume gives a good view of ongoing concurrent systems and Petri nets research.

Transactions on Petri Nets and Other Models of Concurrency VIII Maciej Koutny, Wil M. P. van der Aalst, Alex Yakovlev. 2013-08-05 The 8th volume of ToPNoC contains revised and extended versions of a selection of the best workshop papers presented at the 33rd International Conference on Application and Theory of Petri Nets and Other Models of Concurrency (Petri Nets 2012). The 10 papers cover a diverse range of topics including model checking and system verification, refinement and synthesis, foundational work on specific classes of Petri nets, and innovative applications of Petri nets and other models of concurrency. Application areas covered in this volume are: biological systems, communication protocols, business processes, collaborative team work, and Petri net education. Thus this volume gives a good view of ongoing concurrent systems and Petri nets research.

System Modeling and Control with Resource-Oriented Petri Nets MengChu Zhou, Naiqi Wu. 2018-09-03 Petri nets are widely used in modeling, analysis, and control of discrete event systems arising from manufacturing, transportation, computer and communication networks, and web service systems. However, Petri net models for practical systems can be very large, making it difficult to apply such models to real-life problems. System Modeling and Control with Resource-Oriented Petri Nets introduces a new resource-oriented Petri net (ROPN) model that was developed by the authors. Not only does it successfully reduce model size, but it also offers improvements that facilitate effective modeling, analysis, and control of automated and reconfigurable manufacturing systems. Presenting the latest research in this novel approach, this cutting-edge volume provides proven theories and methodologies for implementing cost and time-saving improvements to contemporary manufacturing systems. It provides effective tools for deadlock avoidance—deadlock-free routing and deadlock-free scheduling. The authors supply simple and complex industrial manufacturing system examples to illustrate time-tested concepts, theories, and approaches for solving real-life application problems. Written in a clear and concise manner, the text covers applications to automated and reconfigurable manufacturing systems, automated guided vehicle (AGV) systems, semiconductor manufacturing systems, and flexible assembly systems. Explaining complex concepts in a manner that is easy to understand, the authors provide the understanding and tools needed for more effective modeling, analysis, performance evaluation, control, and scheduling of engineering processes that will lead to more flexible and efficient manufacturing systems.

Transactions on Petri Nets and Other Models of Concurrency XII Maciej Koutny, Jetty Kleijn, Wojciech Penczek, Mingmin Zhang. 2017-09-19 The 12th volume of ToPNoC contains revised and extended versions of a selection of the best workshop papers presented at the 37th International Conference on Application and Theory of Petri Nets and Concurrency, Petri Nets 2016, and the 16th International Conference on Application of Concurrency to System Design, ACSD 2016. It also contains one paper submitted directly to ToPNoC. The 9 papers cover a diverse range of topics including model checking and system verification, refinement, and synthesis; foundational work on specific classes of Petri nets; and innovative applications of Petri nets and other models of concurrency. Application areas covered in this volume are: security, service composition, databases, communication protocols, business processes, and distributed systems. Thus, this volume gives a good overview of ongoing research on concurrent systems and Petri nets.

Transactions on Petri Nets and Other Models of Concurrency VII Kurt Jensen, Wil M. P. van der Aalst, Gianfranco Balbo, Maciej Koutny, Karsten Wolf. 2013-04-22 These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two-stage refereeing process. ToPNoC contains: - Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences - Special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series) - Other papers invited for publication in ToPNoC - Papers submitted directly to ToPNoC by their authors The 7th volume of ToPNoC contains revised material from the 5th International Summer School “Advanced Course on Petri Nets”, held in September 2010 in Rostock, Germany. The nine papers cover a diverse range of topics including modeling, verification, partial order semantics, and synthesis of Petri nets. In compliance with their origin as course material, the papers are written in survey or tutorial style and give a comprehensive overview of the state of the art in their respective areas.

Foundations of Multi-Paradigm Modelling for Cyber-Physical Systems Paulo Carreira, Vasco Amaral, Hans Vangheluwe. 2020-05-07 This open access book coherently gathers well-founded information on the fundamentals of and formalisms for modelling cyber-physical systems (CPS). Highlighting the cross-disciplinary nature of CPS modelling, it also serves as a bridge for anyone entering CPS from related areas of computer science or engineering. Truly complex, engineered systems—known as cyber-physical systems—that integrate physical, software, and network aspects are now on the rise. However, there is no unifying theory nor systematic design methods, techniques or tools for these systems. Individual (mechanical, electrical, network or software) engineering disciplines only offer partial solutions. A technique known as Multi-Paradigm Modelling has recently emerged suggesting to model every part and aspect of a system explicitly, at the most appropriate level(s) of abstraction, using the most appropriate modelling formalism(s), and then weaving the results together to form a representation of the system. If properly applied, it enables, among other global aspects, performance analysis, exhaustive simulation, and verification. This book is the first systematic attempt to bring together these formalisms for anyone starting in the field of CPS who seeks solid modelling foundations and a comprehensive introduction to the distinct existing techniques that are multi-paradigmatic. Though chiefly intended for master and post-graduate level students in computer science and engineering, it can also be used as a reference text for practitioners.

Workflow Patterns Nick Russell, Wil M.P. Van Der Aalst, Arthur H. M. Ter Hofstede. 2016-02-26 A comprehensive guide to well-known workflow patterns: recurrent, generic business process constructs, described from

the control-flow, data, and resource perspectives. The study of business processes has emerged as a highly effective approach to coordinating an organization's complex service- and knowledge-based activities. The growing field of business process management (BPM) focuses on methods and tools for designing, enacting, and analyzing business processes. This volume offers a definitive guide to the use of patterns, which synthesize the wide range of approaches to modeling business processes. It provides a unique and comprehensive introduction to the well-known workflow patterns collection—recurrent, generic constructs describing common business process modeling and execution scenarios, presented in the form of problem-solution dialectics. The underlying principles of the patterns approach ensure that they are independent of any specific enabling technology, representational formalism, or modeling approach, and thus broadly applicable across the business process modeling and business process technology domains. The authors, drawing on extensive research done by the Workflow Patterns Initiative, offer a detailed introduction to the fundamentals of business process modeling and management; describe three major pattern catalogs, presented from control-flow, data, and resource perspectives; and survey related BPM patterns. The book, a companion to the authoritative Workflow Patterns website, will be an essential resource for both academics and practitioners working in business process modeling and business process management.

Transactions on Petri Nets and Other Models of Concurrency XIII Maciej Koutny,Lars Michael Kristensen,Wojciech Penczek.2018-11-20 The 13th volume of ToPNoC contains revised and extended versions of a selection of the best workshop papers presented at the 38th International Conference on Application and Theory of Petri Nets and Concurrency, Petri Nets 2017, and the 17th International Conference on Application of Concurrency to System Design, ACS D 2017. The 9 papers cover a diverse range of topics including model checking and system verification, refinement, and synthesis; foundational work on specific classes of Petri nets; and innovative applications of Petri nets and other models of concurrency. Application areas covered in this volume are: fault-tolerance, service composition, databases, communication protocols, business processes, and distributed systems. Thus, this volume gives a good overview of ongoing research on concurrent systems and Petri nets.

Application and Theory of Petri Nets 2000 Mogens Nielsen,Dan Simpson.2003-06-26 This book constitutes the refereed proceedings of the 21st International Conference on Application and Theory of Petri Nets, ICATPN 2000, held in Aarhus, Denmark, in June 2000. The 20 revised full papers presented together with four invited surveys and four tool presentations were carefully reviewed and selected from 57 submissions. The papers address all current aspects of Petri net research and development including system design and verification, UML, compositionality, process algebras, model checking, computer networking, business process engineering, communication networks, etc. Various classes of Petri nets are discussed including safe Petri nets, high-level Petri nets, colored Petri nets, P/T nets, and timed Petri nets.

Petri Nets Guanjun Liu.2022-11-03 This book provides essential information on Petri net theory and Petri net-based model checking methods. As for the Petri net theory, it involves the interleaving semantics and concurrency semantics of elementary net systems, some important net structures (e.g., invariant, repetitive vector, siphon, and trap), some classical net subclasses with special structures (e.g., state machine, marked graph, free-choice net, asymmetric-choice net, normal net, and weakly persistent net), and some basic properties (e.g., reachability, liveness, deadlock, and soundness). It also involves four high-level Petri nets: knowledge-oriented Petri nets, Petri nets with insecure places, time Petri nets, and plain time Petri nets with priorities, focusing on different fields of application. As for the model checking methods, this book introduces readers to computation tree logic (CTL), computation tree logic of knowledge (CTLK), and timed computation tree logic (TCTL), as well as Petri net-based methods for checking them. The basic principle of the reduced ordered binary decision diagram (ROBDD) is employed to compress the state space used in these model checking procedures. The book also covers time-soundness for time Petri nets and secure bisimulation for Petri nets with insecure places, both of which are based on the bisimulation theory. As such, it offers an introduction to basic information on bisimulation theory.

Embedded Computing Systems: Applications, Optimization, and Advanced Design Khalgui, Mohamed.2013-04-30 Embedded computing systems play an important and complex role in the functionality of electronic devices. With our daily routines becoming more reliant on electronics for personal and professional use, the understanding of these computing systems is crucial. Embedded Computing Systems: Applications, Optimization, and Advanced Design brings together theoretical and technical concepts of intelligent embedded control systems and their use in hardware and software architectures. By highlighting formal modeling, execution models, and optimal implementations, this reference source is essential for experts, researchers, and technical supporters in the industry and academia.

Transactions on Petri Nets and Other Models of Concurrency V Susanna Donatelli,Jetty Kleijn.2012-03-22 These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two-stage refereeing process. ToPNoC contains: - Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences - Special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series) - Other papers invited for publication in ToPNoC - Papers submitted directly to ToPNoC by their authors The fifth volume of ToPNoC contains revised versions of selected papers from workshops and tutorials held in conjunction with the 31st International Conference on Application and Theory of Petri Nets and Other Models of Concurrency, as well as a contributed paper selected through the regular submission track of ToPNoC. The 12 papers cover a diverse range of topics including model checking and system verification, synthesis, foundational work on specific classes of Petri nets, and innovative applications of Petri nets and other models of concurrency. Thus, this volume gives a good view of ongoing concurrent systems and Petri nets research.

Lectures on Concurrency and Petri Nets Jörg Desel,Wolfgang Reisig,Grzegorz Rozenberg.2004-06-14 This tutorial volume originates from the 4th Advanced Course on Petri Nets, ACPN 2003, held in Eichstätt, Germany in September 2003. In addition to lectures given at ACPN 2003, additional chapters have been commissioned to give a well-balanced presentation of the state of the art in the area. This book will be useful as both a reference for those working in the area as well as a study book for the reader who is interested in an up-to-date overview of research and development in concurrent and distributed systems; of course, readers specifically interested in theoretical or applicational aspects of Petri nets will appreciate the book as well.

Rough Sets and Current Trends in Computing Wojciech Ziarko,Yiyu Yao.2001-12-14 This book constitutes the thoroughly refereed post-proceedings of the Second International Conference on Rough Sets and Current Trends in Computing, RSCTC 2000, held in Banff, Canada in October 2000. The 80 revised papers presented together with an introduction and three keynote presentations have gone through two rounds of reviewing and revision. The papers are organized in topical sections on granular computing, rough sets and systems, fuzzy sets and systems, rough sets and data mining, nonclassical logics and reasoning, pattern recognition and image processing, neural networks and genetic algorithms, and current trends in computing.

Behavioral Modeling for Embedded Systems and Technologies: Applications for Design and Implementation Gomes, Luis,Fernandes, Jo?o M..2009-07-31 This book provides innovative behavior models currently used for developing embedded systems, accentuating on graphical and visual notations--Provided by publisher.

Advances in Petri Nets 1991 Grzegorz Rozenberg.1991-08-28 The main idea behind the series of volumes Advances in Petri Nets is to present to the general computer science community recent results which are the most representative and significant for the development of the area. The papers for the volumes are drawn mainly from the annual International Conferences on Applications and Theory of Petri Nets. Selected papers from the latest conference are independently refereed, and revised and extended as necessary. Some further papers submitted directly to the editor are included. Advances in Petri Nets 1991 covers the 11th International Conference on Applications and Theory of Petri Nets held in Paris, France in June 1991. The volume contains the Bibliography of Petri Nets 1990 prepared by H. Pl?nnecke and W. Reisig, with over 4000 entries.

Embedded and Ubiquitous Computing Edwin Sha.2006-07-18 This book constitutes the refereed proceedings of the International Conference on Embedded and Ubiquitous Computing, EUC 2006, held in Seoul, Korea, August 2006. The book presents 113 revised full papers together with 3 keynote articles, organized in topical sections on power aware computing, security and fault tolerance, agent and distributed computing, wireless communications, real-time systems, embedded systems, multimedia and data management, mobile computing, network protocols, middleware and P2P, and more.

Transactions on Petri Nets and Other Models of Concurrency II Wil van der Aalst.2009-03-27 Transactions on Petri Nets and Other Models of Concurrency (ToPNoC) II These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two-stage refereeing process. ToPNoC contains: - Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences - Special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series) - Other papers invited for publication in ToPNoC - Papers submitted directly to ToPNoC by their authors The second volume of ToPNoC focuses on Concurrency in Process-Aware Information Systems. Although the topic of business process management using information technology has been addressed by consultants and software developers in depth, more fundamental approaches towards such Process-Aware Information Systems (PAISs) have been rather uncommon. It wasn't until the 1990s that researchers started to work on the foundations of PAISs. Clearly, concurrency theory is an essential ingredient in these foundations as business processes are highly concurrent involving all types of routing logic and resource allocation mechanisms. The 16 papers in this special issue of ToPNoC cover topics ranging from the formal (mostly Petri-net based) foundations of PAISs to more applied topics such as flexibility and process mining. Thus, this volume gives a good overview of the state of the art in PAIS research.

Petri Net Theory and the Modeling of Systems James L Peterson.2019-08-09 Petri nets were conceived in 1962 as a model of parallel systems, and have been applied to a wide range of problems. This volume presents both the basic model and demonstrates how it can be applied to a large number of different systems. It also presents basic analysis techniques and shows how Petri nets compare to other models of parallel systems. This second, digital, edition of the original 1981 publication is a faithful reproduction of that work, with dozens of corrections and minor improvements. The original 1981 book was scanned, OCRed, processed and corrected to create an all new printing.

Modeling Business Processes Wil Van Der Aalst, M.P., Christian Stahl.2011-05-27 An introduction to the modeling of business information systems, with processes formally modeled using Petri nets. This comprehensive introduction to modeling business-information systems focuses on business processes. It describes and demonstrates the formal modeling of processes in terms of Petri nets, using a well-established theory for capturing and analyzing models with concurrency. The precise semantics of this formal method offers a distinct advantage for modeling processes over the industrial modeling languages found in other books on the subject. Moreover, the simplicity and expressiveness of the Petri nets concept make it an ideal language for explaining foundational concepts and constructing exercises. After an overview of business information systems, the book introduces the modeling of processes in terms of classical Petri nets. This is then extended with data, time, and hierarchy to model all aspects of a process. Finally, the book explores analysis of Petri net models to detect design flaws and errors in the design process. The text, accessible to a broad audience of professionals and students, keeps technicalities to a minimum and offers numerous examples to illustrate the concepts covered. Exercises at different levels of difficulty make the book ideal for independent study or classroom use.

Transactions on Petri Nets and Other Models of Concurrency I Wil M. P. van der Aalst, Jonathan Billington.2008-11-27 These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two stage refereeing process. ToPNoC contains: Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences; special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series); other papers invited for publication in ToPNoC; papers submitted directly to ToPNoC by their authors. This is the first volume of ToPNoC. It contains revised and extended versions of a selection of the best papers from the workshops held at the 28th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency, which took place in Siedlce, Poland, June 25-29, 2007. The material has been selected and evaluated by the two Workshop and Tutorial Chairs, Wil van der Aalst and Jonathan Billington, in close cooperation with the chairs of the individual workshops. The 13 papers in this volume cover a wide range of concurrency-related topics, including: teaching concurrency; process languages; process mining; software engineering; state space visualization techniques; timed Petri nets; unfolding techniques and hardware systems. Thus, this volume gives a good overview of the state of the art in concurrency research.

Transactions on Petri Nets and Other Models of Concurrency III .2009-11-11 This volume contains papers from the 29th International Conference on Application and Theory of Petri Nets and Other Models of Concurrency and from the 8th and 9th Workshops and Tutorials on Practical Use of Coloured Petri Nets and the CPN Tools.

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Table of Contents Transactions On Petri Nets And Other Models Of Co

1. Understanding the eBook Transactions On Petri Nets And Other Models Of Co
 - The Rise of Digital Reading Transactions On Petri Nets And Other Models Of Co
 - Advantages of eBooks Over Traditional Books
2. Identifying Transactions On Petri Nets And Other Models Of Co
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Transactions On Petri Nets And Other Models Of Co
 - User-Friendly Interface
4. Exploring eBook Recommendations from Transactions On Petri Nets And Other Models Of Co
 - Personalized Recommendations
 - Transactions On Petri Nets And Other Models Of Co User Reviews and Ratings
 - Transactions On Petri Nets And Other Models Of Co and Bestseller Lists
5. Accessing Transactions On Petri Nets And Other Models Of Co Free and Paid eBooks
 - Transactions On Petri Nets And Other Models Of Co Public Domain eBooks
 - Transactions On Petri Nets And Other Models Of Co eBook Subscription Services

- Transactions On Petri Nets And Other Models Of Co Budget-Friendly Options
- 6. Navigating Transactions On Petri Nets And Other Models Of Co eBook Formats
 - ePub, PDF, MOBI, and More
 - Transactions On Petri Nets And Other Models Of Co Compatibility with Devices
 - Transactions On Petri Nets And Other Models Of Co Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Transactions On Petri Nets And Other Models Of Co
 - Highlighting and Note-Taking Transactions On Petri Nets And Other Models Of Co
 - Interactive Elements Transactions On Petri Nets And Other Models Of Co
- 8. Staying Engaged with Transactions On Petri Nets And Other Models Of Co
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Transactions On Petri Nets And Other Models Of Co
- 9. Balancing eBooks and Physical Books Transactions On Petri Nets And Other Models Of Co
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Transactions On Petri Nets And Other Models Of Co
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Transactions On Petri Nets And Other Models Of Co
 - Setting Reading Goals Transactions On Petri Nets And Other Models Of Co
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Transactions On Petri Nets And Other Models Of Co
 - Fact-Checking eBook Content of Transactions On Petri Nets And Other Models Of Co
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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