

Workflow Patterns Home Page

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Applications and Theory of Petri Nets 2004 - Jordi Cortadella 2004-06-15

This book constitutes the refereed proceedings of the 25th International Conference on Applications and Theory of Petri Nets, ICATPN 2004, held in Bologna, Italy in June 2004. The 19 revised full regular papers and 5 revised tool presentation papers presented together with 6 invited papers were carefully reviewed and selected from 62 submissions. All current issues on research and development in the area of Petri nets are addressed, in particular concurrent systems design and analysis, modular systems development, formal specification, model validation, model checking, workflow management, flow charts, networking, formal methods in software engineering, etc.

Trustworthy Global Computing - Matteo Maffei 2014-12-22

This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Symposium on Trustworthy Global Computing, TGC 2014, held in Rome, Italy, in September 2014. The 15 revised full papers presented were carefully reviewed and selected from 20 submissions. The Symposium on Trustworthy Global Computing focuses on frameworks, tools, algorithms, and protocols for open-ended, large-scale systems and applications, and on rigorous reasoning about their behavior and properties.

Fundamental Approaches to Software Engineering - Heinrich Hussmann 2003-06-29
ETAPS 2001 is the fourth 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 comprises ve conferences (FOSSACS, FASE, ESOP, CC, TACAS), ten satellite workshops (CMCS, ETI Day, JOSES, LDTA, MMAABS, PFM, RelMiS, UNIGRA, WADT, WTUML), seven invited lectures, a debate, and ten tutorials. The events that comprise ETAPS address various aspects of the system - velopment process, including speci cation, design, implementation, analysis and improvement. The languages, methodologies and tools which support these - tivities are all well within its scope. Di erent blends of theory and practice are represented, with an inclination towards theory with a practical motivation on 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.

Process-Aware Information Systems - Marlon Dumas 2005-10-27

A unifying foundation to design and implement process-aware information systems This publication takes on the formidable task of establishing a unifying foundation and set of common underlying principles to effectively model, design, and implement process-aware information systems. Authored by leading authorities and pioneers in the field, Process-Aware Information Systems helps readers gain a thorough understanding of major concepts, languages, and techniques for building process-aware applications, including: * UML and EPCs: two of the most widely used notations for business process modeling * Concrete techniques for process design and analysis * Process

execution standards: WfMC and BPEL *
Representative commercial tools: ARIS, TIBCO Staffware, and FLOWer Each chapter begins with a description of the problem domain and then progressively unveils relevant concepts and techniques. Examples and illustrations are used extensively to clarify and simplify complex material. Each chapter ends with a set of exercises, ranging from simple questions to thought-provoking assignments. Sample solutions for many of the exercises are available on the companion Web site. Armed with a new and deeper understanding, readers are better positioned to make their own contributions to the field and evaluate various approaches to a particular task or problem. This publication is recommended as a textbook for graduate and advanced undergraduate students in computer science and information systems, as well as for professionals involved in workflow and business process management, groupware and teamwork, enterprise application integration, and business-to-business integration. A Solution's Manual is available online. An Instructor Support FTP site is also available.

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.

A Rigorous Semantics for BPMN 2.0 Process Diagrams - Felix Kossak 2015-02-04

This book provides the most complete formal specification of the semantics of the Business Process Model and Notation 2.0 standard (BPMN) available to date, in a style that is easily understandable for a wide range of readers - not only for experts in formal methods, but e.g. also for developers of modeling tools, software architects, or graduate students specializing in business process management. BPMN - issued by the Object Management Group - is a widely used standard for business process modeling. However, major drawbacks of BPMN include its limited support for organizational modeling, its only implicit expression of modalities, and its lack of integrated user interaction and data modeling. Further, in many cases the syntactical

and, in particular, semantic definitions of BPMN are inaccurate, incomplete or inconsistent. The book addresses concrete issues concerning the execution semantics of business processes and provides a formal definition of BPMN process diagrams, which can serve as a sound basis for further extensions, i.e., in the form of horizontal refinements of the core language. To this end, the Abstract State Machine (ASMs) method is used to formalize the semantics of BPMN. ASMs have demonstrated their value in various domains, e.g. specifying the semantics of programming or modeling languages, verifying the specification of the Java Virtual Machine, or formalizing the ITIL change management process. This kind of improvement promotes more consistency in the interpretation of comprehensive models, as well as real exchangeability of models between different tools. In the outlook at the end of the book, the authors conclude with proposing extensions that address actor modeling (including an intuitive way to denote permissions and obligations), integration of user-centric views, a refined communication concept, and data integration.

Fundamentals of Business Process Management
- Marlon Dumas 2018-03-23

This textbook covers the entire Business Process Management (BPM) lifecycle, from process identification to process monitoring, covering along the way process modelling, analysis, redesign and automation. Concepts, methods and tools from business management, computer science and industrial engineering are blended into one comprehensive and inter-disciplinary approach. The presentation is illustrated using the BPMN industry standard defined by the Object Management Group and widely endorsed by practitioners and vendors worldwide. In addition to explaining the relevant conceptual background, the book provides dozens of examples, more than 230 exercises - many with solutions - and numerous suggestions for further reading. This second edition includes extended and completely revised chapters on process identification, process discovery, qualitative process analysis, process redesign, process automation and process monitoring. A new chapter on BPM as an enterprise capability has been added, which expands the scope of the book to encompass topics such as the strategic

alignment and governance of BPM initiatives. The textbook is the result of many years of combined teaching experience of the authors, both at the undergraduate and graduate levels as well as in the context of professional training. Students and professionals from both business management and computer science will benefit from the step-by-step style of the textbook and its focus on fundamental concepts and proven methods. Lecturers will appreciate the class-tested format and the additional teaching material available on the accompanying website.

Business Process Management Workshops -

Arthur ter Hofstede 2008-02-29

moderation of the workshops, and the

publication process.

Service-Oriented Computing - ICSOC 2006 -

Asit Dan 2006-11-24

This book constitutes the refereed proceedings of the 4th International Conference on Service-Oriented Computing, ICSOC 2006, held in Chicago, IL, USA, December 2006. Coverage in this volume includes service mediation, grid services and scheduling, mobile and P2P services, adaptive services, data intensive services, XML processing, service modeling, service assembly, experience with deployed SOA, and early adoption of SOA technology.

Workflow Patterns - Nick Russell 2016-02-12

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.

Conceptual Modelling and Its Theoretical Foundations - Antje Düsterhöft 2012-02-17

This Festschrift, published in honor of Bernhard Thalheim on the occasion of his 60th birthday presents 20 articles by colleagues from all over the world with whom Bernhard Thalheim had cooperation in various respects; also included is a scientific biography contributed by the volume editors. The 20 contributions reflect the breadth and the depth of the work of Bernhard Thalheim in conceptual modeling and database theory during his scientific career spanning more than 35 years of active research. In particular, ten articles are focusing on topics like database dependency theory, object-oriented databases, triggers, abstract state machines, database and information systems design, web semantics, and business processes.

Application and Theory of Petri Nets 2002 -

Javier Esparza 2003-08-02

This book constitutes the refereed proceedings of the 23rd International Conference on Application and Theory of Petri Nets, ICATPN 2002, held in Adelaide, Australia, in June 2002. The 18 regular papers and one tool presentation presented together with six invited paper were carefully reviewed and selected from 45 submissions. All current issues on research and development of Petri nets are addressed, in particular concurrent systems analysis, model validation, business process management, reactive systems, workflow processes, wireless transaction protocols.

Methods in Biomedical Informatics - Indra

Neil Sarkar 2013-09-03

Beginning with a survey of fundamental concepts associated with data integration, knowledge representation, and hypothesis generation from heterogeneous data sets, *Methods in Biomedical Informatics* provides a practical survey of methodologies used in biological, clinical, and public health contexts. These concepts provide the foundation for more advanced topics like information retrieval, natural language processing, Bayesian modeling, and learning classifier systems. The survey of topics then concludes with an exposition of essential methods associated with engineering, personalized medicine, and linking of genomic and clinical data. Within an overall context of the scientific method, *Methods in Biomedical Informatics* provides a practical coverage of topics that is specifically designed for: (1) domain experts seeking an understanding of biomedical informatics approaches for addressing specific methodological needs; or (2) biomedical informaticians seeking an approachable overview of methodologies that can be used in scenarios germane to biomedical research. Contributors represent leading biomedical informatics experts: individuals who have demonstrated effective use of biomedical informatics methodologies in the real-world, high-quality biomedical applications. Material is presented as a balance between foundational coverage of core topics in biomedical informatics with practical "in-the-trenches" scenarios. Contains appendices that function as primers on: (1) Unix; (2) Ruby; (3) Databases; and (4) Web Services.

S-BPM ONE - Education and Industrial Developments - Stefan Oppl 2012-03-27

This book constitutes the thoroughly refereed proceedings of the industrial track of the 4th International Conference on Subject-Oriented Business Process Management, S-BPM ONE 2012, held in Vienna, Austria, in April 2012. S-BPM as a discipline is characterized by a seamless approach toward the analysis, modeling, implementation, execution, and maintenance of business processes, with an explicit stakeholder focus. The 19 papers included were selected from the practically oriented submissions, and they have gone through the same rigorous peer-review process as their scientific counterparts.

Transactions on Pattern Languages of Programming I - James Noble 2010-01-08

The Transactions on Pattern Languages of Programming subline aims to publish papers on patterns and pattern languages as applied to software design, development, and use, throughout all phases of the software life cycle, from requirements and design to implementation, maintenance and evolution. The primary focus of this LNCS Transactions subline is on patterns, pattern collections, and pattern languages themselves. The journal also includes reviews, survey articles, criticisms of patterns and pattern languages, as well as other research on patterns and pattern languages. This book, the first volume in the Transactions on Pattern Languages of Programming series, presents eight papers that have been through a careful peer review process involving both pattern experts and domain experts, by researchers and practitioners. The papers cover a wide range of topics, from the architectural design of large-scale systems down to very detailed design for microcontroller-based embedded systems. The first paper presents a substantial pattern language for constructing an important part of an integrated development environment. The following papers present patterns for batching requests in client-server systems; graceful degradation to handle errors and exceptions; and accurate timing delays. Two papers present related patterns that address aspects of service-oriented architectures, considering synchronization and workflow integration. Finally, the last two papers show how patterns can be combined into systems and then used to document those systems' designs.

SOA Patterns - Arnon Rotem-Gal-Oz 2012-09-11

Summary SOA Patterns provides architectural guidance through patterns and antipatterns. It shows you how to build real SOA services that feature flexibility, availability, and scalability. Through an extensive set of patterns, this book identifies the major SOA pressure points and provides reusable techniques to address them. Each pattern pairs the classic problem/solution format with a unique technology map, showing where specific solutions fit into the general pattern. About the Technology The idea of service-oriented architecture is an easy one to grasp and yet developers and enterprise

architects often struggle with implementation issues. Here are some of them: How to get high availability and high performance How to know a service has failed How to create reports when data is scattered within multiple services How to make loose coupling looser How to solve authentication and authorization for service consumers How to integrate SOA and the UI About the Book SOA Patterns provides detailed, technology-neutral solutions to these challenges, and many others, using plain language. You'll understand the design patterns that promote and enforce flexibility, availability, and scalability. Each of the 26 patterns uses the classic problem/solution format and a unique technology map to show where specific solutions fit into the general pattern. The book is written for working developers and architects building services and service-oriented solutions. Knowledge of Java or C# is helpful but not required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. Table of Contents PART 1 SOA PATTERNS Solving SOA pains with patterns Foundation structural patterns Patterns for performance, scalability, and availability Security and manageability patterns Message exchange patterns Service consumer patterns Service integration patterns PART 2 SOA IN THE REAL WORLD Service antipatterns Putting it all together—a case study SOA vs. the world

Portability of Process-Aware and Service-Oriented Software - Jörg Lenhard 2016-04-19

Web Engineering - Nora Koch 2004-07-14
 Web engineering is a new discipline that addresses the pressing need for systematic and tool-supported approaches for the development, maintenance and testing of Web applications. Web engineering builds upon well-known and successful software engineering principles and practices, adapting them to the special characteristics of Web applications. Even more relevant is the enrichment with methods and techniques stemming from related areas like hypertext authoring, human-computer interaction, content management, and usability engineering. The goal of the 4th International Conference on Web Engineering (ICWE 2004), in line with the previous ICWE conferences, was to

move towards a better understanding of the issues related to Web application development. Special attention was paid to emerging trends, technologies and future visions, to help the academic and industrial communities identify the most challenging tasks for their research and projects. Following a number of successful workshops on Web engineering since 1997 at well-known conferences, such as ICSE and WWW, the first conference on Web engineering was held in Cáceres, Spain in 2001. It was followed by ICWE 2002 in Santa Fe, Argentina and ICWE 2003 in Oviedo, Spain. In 2004 ICWE moved to the center of Europe and was held in Munich, Germany from July 26 to 30. ICWE 2004 was organized by the Institute for Informatics of the Ludwig-Maximilians-Universität at (LMU) Munich. The ICWE 2004 edition received a total of 204 submissions, out of which 25 papers were selected by the Program Committee as full papers (12% acceptance).

Process Mining - Wil M. P. van der Aalst 2016-04-15

This is the second edition of Wil van der Aalst's seminal book on process mining, which now discusses the field also in the broader context of data science and big data approaches. It includes several additions and updates, e.g. on inductive mining techniques, the notion of alignments, a considerably expanded section on software tools and a completely new chapter of process mining in the large. It is self-contained, while at the same time covering the entire process-mining spectrum from process discovery to predictive analytics. After a general introduction to data science and process mining in Part I, Part II provides the basics of business process modeling and data mining necessary to understand the remainder of the book. Next, Part III focuses on process discovery as the most important process mining task, while Part IV moves beyond discovering the control flow of processes, highlighting conformance checking, and organizational and time perspectives. Part V offers a guide to successfully applying process mining in practice, including an introduction to the widely used open-source tool ProM and several commercial products. Lastly, Part VI takes a step back, reflecting on the material presented and the key open challenges. Overall, this book provides a comprehensive overview of

the state of the art in process mining. It is intended for business process analysts, business consultants, process managers, graduate students, and BPM researchers.

Formal Techniques for Computer Systems and Business Processes - Mario Bravetti

2005-08-25

This book constitutes the refereed proceedings of two colocated international workshops EPEW 2005 (European Performance Engineering Workshop) and WS-FM 2005 (Web Services and Formal Methods) held in Versailles, France in September 2005. The 20 revised full papers presented were carefully reviewed and selected from 59 submissions. For EPEW 2005 only 10 papers - of the 32 submitted - were accepted for presentation; they deal with queueing theory, bounding techniques, stochastic model checking, communication schemes analysis for high-speed LAN, QOS analysis in wireless ad-hoc networks and optical networks analysis. The main topics of the 10 papers accepted for WS-FM 2005 - from 27 submissions - include: protocols and standards for WS (SOAP, WSDL, UDDI, etc.); languages and description methodologies for Choreography/Orchestration/Workflow (BPML, XLANG and BizTalk, WSFL, WS-BPEL, etc.); coordination techniques for WS (transactions, agreement, coordination services, etc.); semantics-based dynamic WS discovery services (based on Semantic Web/Ontology Techniques or other semantic theories); security, performance evaluation and quality of service of WS; semi-structured data and XML related technologies; comparisons with different related technologies/approaches.

Coordination, Organizations, Institutions, and Norms in Agent Systems V - Julian Padget

2010-08-07

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Process-Driven SOA - Carsten Hentrich

2016-04-19
Process-Driven SOA: Patterns for Aligning Business and IT supplies detailed guidance on how to design and build software architectures that follow the principles of business-IT alignment. It illustrates the design process using proven patterns that address complex business/technical scenarios, where integrated concepts of service-oriented architect

S-BPM ONE - Scientific Research - Christian

Stary 2012-03-31

This book constitutes the thoroughly refereed scientific proceedings of the 4th International Conference on Subject-Oriented Business Process Management, S-BPM ONE 2012, held in Vienna, Austria, in April 2012. The 12 papers were carefully reviewed and selected from 36 submissions and are completed by one invited keynote paper and a summary of the tutorial onsubject-oriented business process management. S-BPM as a discipline is characterized by a seamless approach toward the analysis, modeling, implementation, execution, and maintenance of business processes, with an explicit stakeholder focus. This year's contributions address all life-cycle activities, in particular analyzing business objectives, subject behavior design and integration, and automating complex work procedures.

Fundamental Approaches to Software Engineering - Michel Wermelinger 2004-03-01

ETAPS 2004 was the seventh 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 (FOSSACS, FASE, ESOP, CC, TACAS), 23 satellite workshops, 1 tutorial, and 7 invited lectures (not including those that are specific to the satellite events). 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 that support these activities are all well within its scope. Different blends of theory and practice are presented, 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.

Beyond Databases, Architectures, and Structures - Stanislaw Kozielski 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.

Trust Modeling and Management in Digital Environments: From Social Concept to System Development - Yan, Zheng 2010-01-31

"This book investigates various definitions of trust and their characteristics in distributed systems and digital computing, and details how to model and implement trust in a digital system"--Provided by publisher.

Enterprise, Business-Process and Information Systems Modeling - Adriano Augusto 2022

This book contains the refereed proceedings of two long-running events held along with the CAiSE conference relating to the areas of enterprise, business-process and information systems modeling: * the 23rd International Conference on Business Process Modeling, Development and Support, BPMDS 2022, and * the 27th International Conference on Exploring Modeling Methods for Systems Analysis and Development, EMMSAD 2022. The conferences were taking place in Leuven, Belgium during June 6-7, 2022. For BPMDS 7 full papers and 2 short papers were carefully reviewed and selected for publication from a total of 18 submissions; for EMMSAD 11 full papers and 3 short papers were accepted from 30 submissions after thorough reviews. The papers were organized in topical sections as follows: BPMDS: Actual and perceived challenges; business process modeling; understanding collaboration: one issue, many perspectives; and event logs -- why it derives; EMMSAD: Foundations of modeling and method engineering; enterprise, business process, and capability modeling; information systems and requirements modeling; domain-specific and knowledge modeling; and evaluation of modeling approaches. .

Transactions on Computational Collective

Intelligence VI - Ngoc-Thanh Nguyen 2012-06-01

The LNCS journal Transactions on Computational Collective Intelligence (TCCI) focuses on all facets of computational collective intelligence (CCI) and their applications in a wide range of fields such as the Semantic Web, social networks and multi-agent systems. TCCI strives to cover new methodological, theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals (artificial and/or natural). The application of multiple computational intelligence technologies such as fuzzy systems, evolutionary computation, neural systems, consensus theory, etc., aims to support human and other collective intelligence and to create new forms of CCI in natural and/or artificial systems. This, the sixth issue of Transactions on Computational Collective Intelligence contains 10 selected papers, focusing on the topics of classification, agent cooperation, paraconsistent reasoning and agent distributed mobile interaction.

Computational Intelligence in Pattern Recognition - Asit Kumar Das 2019-08-17

This book presents practical development experiences in different areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

Intelligent Techniques and Tools for Novel System Architectures Panagiotis Chountas 2008-09-04

This volume presents new directions and solutions in broadly perceived intelligent systems. An urgent need this volume has occurred as a result of vivid discussions and presentations at the "IEEE-IS' 2006 - The 2006 Third International IEEE Conference on Intelligent Systems" held in London, UK,

September, 2006. This book is a compilation of many valuable inspiring works written by both the conference participants and some other experts in this new and challenging field.

Abstract State Machines, Alloy, B, VDM, and Z - John Derrick 2012-06-26

This book constitutes the proceedings of the Third International Conference on Abstract State Machines, B, VDM, and Z, which took place in Pisa, Italy, in June 2012. The 20 full papers presented together with 2 invited talks and 13 short papers were carefully reviewed and selected from 59 submissions. The ABZ conference series is dedicated to the cross-fertilization of five related state-based and machine-based formal methods: Abstract State Machines (ASM), Alloy, B, VDM, and Z. They share a common conceptual foundation and are widely used in both academia and industry for the design and analysis of hardware and software systems. The main goal of this conference series is to contribute to the integration of these formal methods, clarifying their commonalities and differences to better understand how to combine different approaches for accomplishing the various tasks in modeling, experimental validation and mathematical verification of reliable high-quality hardware/software systems.

UML 2001 - The Unified Modeling Language. Modeling Languages, Concepts, and Tools - Martin Gogolla 2003-06-30

This book constitutes the refereed proceedings of the 4th International Conference on the Unified Modeling Language, 2001, held in Toronto, Canada, in October 2001. The 33 revised full papers presented together with one invited paper were carefully reviewed and selected from a total of 122 abstracts and 102 papers submitted. The papers are organized in topical sections on metamodeling, activity diagrams, OCL, architecture and patterns, analysis and testing, performance and databases, graph transformations, real-time and embedded systems, associations and ontology, statecharts, components, and use cases.

Transactions on Petri Nets and Other Models of Concurrency VII - Kurt Jensen 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.

Coordination Models and Languages - Amy L. Murphy 2007-06-26

This book constitutes the refereed proceedings of the 9th International Conference on Coordination Models and Languages, COORDINATION 2007, held in Paphos, Cyprus, June 2007, as one of the federated conferences on Distributed Computing Techniques. It examines how to increase modularity, simplify reasoning, and ultimately enhance today's software development by exploring the spectrum of languages, middleware, services, and algorithms.

On the Move to Meaningful Internet Systems 2006: OTM 2006 Workshops - Zahir Tari 2006-10-26

This two-volume set LNCS 4277/4278 constitutes the refereed proceedings of 14 international workshops held as part of OTM 2006 in Montpellier, France in October/November 2006. The 191 revised full papers presented were carefully reviewed and selected from a total of 493 submissions to the workshops. The first volume begins with 26 additional revised short or poster papers of the OTM 2006 main conferences.

Hagenberg Business Process Modelling Method
Felix Kossak 2016-04-27

This book presents a proposal for designing business process management (BPM) systems that comprise much more than just process modelling. Based on a purified Business Process Model and Notation (BPMN) variant, the authors present proposals for several important issues in BPM that have not been adequately considered in the BPMN 2.0 standard. It focusses on modality as well as actor and user interaction modelling and offers an enhanced communication concept. In order to render models executable, the semantics of the modelling language needs to be described rigorously enough to prevent deviating interpretations by different tools. For this reason, the semantics of the necessary concepts introduced in this book are defined using the Abstract State Machine (ASM) method. Finally, the authors show how the different parts of the model fit together using a simple example process, and introduce the enhanced Process Platform (eP2) architecture, which binds all the different components together. The resulting method is named Hagenberg Business Process Modelling (H-BPM) after the Austrian village where it was designed. The motivation for the development of the H-BPM method stems from several industrial projects in which business analysts and software developers struggled with redundancies and inconsistencies in system documentation due to missing integration. The book is aimed at researchers in business process management and industry 4.0 as well as advanced professionals in these areas.

Software Engineering Research, Management and Applications - Roger Lee
2013-07-19

The purpose of the 11th International Conference on Software Engineering Research, Management and Applications (SERA 2013) held on August 7 - 9, 2012 in Prague, Czech Republic was to bring together scientists, engineers, computer users, and students to share their experiences and exchange new ideas and research results about all aspects (theory, applications and tools) of Software Engineering Research, Management and Applications, and to discuss the practical challenges encountered along the way and the solutions adopted to solve

them. The conference organizers selected 17 outstanding papers from those papers accepted for presentation at the conference in order to publish them in this volume. The papers were chosen based on review scores submitted by members of the program committee, and further rigorous rounds of review.

Integrated Formal Methods - John Derrick
2012-06-26

This book constitutes the refereed proceedings of the 9th International Conference on Integrated Formal Methods, IFM 2012, held Pisa, Italy, in June 2012. The 20 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 59 submissions. The papers cover the spectrum of integrated formal methods, ranging from formal and semiformal notations, semantics, proof frameworks, refinement, verification, timed systems, as well as tools and case studies.

Application and Theory of Petri Nets - 2004

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.