Free ebook Geometric nets on graph paper (2023)

Graph Transformation, Specifications, and Nets Theory of Nets Lectures on Concurrency and Petri Nets Evolution of Networks Graph Partitioning Technique for Separating Nets in Single-row Networks Recent Trends in Algebraic Development Techniques Concurrency and Nets Petri Nets: Central Models and Their Properties Coloured Petri Nets Automated Technology for Verification and Analysis Discrete, Continuous, and Hybrid Petri Nets Current Trends In Theoretical Computer Science - Entering The 21st Century Advances in Petri Nets 1993 VLSI Planarization ECKM 2002 Third European Conference on Knowledge Managemnt Application and Theory of Petri Nets Formal and Natural Computing Morphology of Crystals A Mosaic of Computational Topics: from Classical to Novel Web Services and Formal Methods Software Engineering - ESEC/FSE '99 Machine Learning and Knowledge Discovery in Databases Computer Aided and Integrated Manufacturing Systems Algorithms for VLSI Physical Design Automation ESEC '89 Formalisms for Reuse and Systems Integration Formal Description Techniques IX Graph Transformation Improving Complex Systems Today Technological Innovation for Life Improvement VLSI Design Environments Grid Computing: Software Environments and Tools Optimal Analysis of Structures by Concepts of Symmetry and Regularity Design Methods and Applications for Distributed Embedded Systems Supervisory Control of Concurrent Systems Computer Science Logic Application and Theory of Petri Nets 1998 TAPSOFT Business Process Management The VLSI Handbook

Graph Transformation, Specifications, and Nets

2018-02-06

this volume pays tribute to the scientific achievements of hartmut ehrig who passed away in march 2016 the contributions represent a selection from a symposium held in october 2016 at tu berlin commemorating hartmut s life and work as well as other invited papers in the areas he was active in these areas include graph transformation model transformation concurrency theory in particular petri nets algebraic specification and category theory in computer science

Theory of Nets

1990-01-22

graphs and networks the shortest directed path problem maximum flows in networks minimum trees and communication nets feasibility theorems and their applications applications of flow theorems to subgraph problems index

Lectures on Concurrency and Petri Nets

2004-07-09

this tutorial volume originates from the 4th advanced course on petri nets acpn 2003 held in eichsttt 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

Evolution of Networks

2013-11-14

we live in a world of networks where everything is amazingly close to everything else the notion of network turns out to be central to our times the internet and www are changing our lives our physical existence is based on various biological networks we are involved in all enveloping networks of economic and social relations only in the 1990s did physicists begin to explore real networks both natural and artificial as evolving systems with intriguingly complex and effective architectures progress has been so immediate and astounding that we actually face a new science based on a new set of concepts and one may even say on a new philosophy the natural philosophy of a small world old ideas from mathematics statistical physics biology computer science and so on take on quite new forms in applications to real evolving networks what is common to all networks what are the general principles of the organization and evolution of networks how do the laws of nature work in communication biological and social networks what are networks this book written by physicists answers these questions and presents a general insight into the world of networks

Graph Partitioning Technique for Separating Nets in Single-row Networks

2008

this book constitutes the thoroughly refereed post proceedings of the 16th international workshop on algebraic development techniques wadt 2002 held at frauenchiemsee germany in september 2002 the 20 revised full papers presented together with 6 invited papers were carefully improved and selected from 44 workshop presentations during two rounds of reviewing the papers are devoted to topics like formal methods for system development specification languages and methods systems and techniques for reasoning about specifications specification development systems methods and techniques for concurrent distributed and mobile systems and algebraic and co algebraic methods

Recent Trends in Algebraic Development Techniques

2003-11-24

concurrency and nets is a special volume in the series advances in petri nets prepared as a tribute to carl adam petri on the occasion of his 60th birthday it is devoted to an outstanding personality and his pioneering and fruitful scientific work part i 70 pages of over 600 presents the congratulatory addresses and invited talks that were given at an anniversary colloquium the contributions of this part honor carl adam petri and his work from many different perspectives part ii is a collection of invited papers discussing various aspects of the theme concurrency and nets these papers are contributed partly by researchers that were or are still associated with the petri institute at gmd and partly by researchers whose scientific work deals with net theory or related system models the topics range from basic theoretical aspects to application oriented methods

Concurrency and Nets

2012-12-06

petri nets represent a long and sustained effort to develop concepts theories and tools to aid in design and analysis of concurrent systems they are used in many areas of computer science including software engineering data base and in formation systems computer architecture and operating systems communication protocols and computer networks process control and socio technical systems such as office communication and man machine interaction quite substantial theory has been developed for petri nets it reflects all major problem areas of concurrent distributed systems and covers many successfully applied principles and analysis techniques for systems organisation since the time that c a petri has presented his original ideas a rich body of knowledge has been developed a recent bibliography in advances in petri nets 1981 includes more than 2000 entries already in 1979 an advanced course on petri nets was organized in hamburg west germany aiming at systematizing the existing knowledge and making it well accessible to a wide audience of computer scientists interested in theory and applications of concurrent systems this course has turned out to be successful in the sense that it has initiated a lot of new research into applications and theory of petri nets this had led to another advanced course in 1986 in bad honnef west germany where during two weeks more than 30 lectures were presented covering the most important current developments in the area of petri nets

Petri Nets: Central Models and Their Properties

2006-04-11

this three volume work presents a coherent description of the theoretical and practical aspects of coloured petri nets cp nets the second volume contains a detailed presentation of the analysis methods for cp nets they allow the modeller to investigate dynamic properties of cp nets the main ideas behind the analysis methods are described as well as the mathematics on which they are based and also how the methods are supported by computer tools some parts of the volume are theoretical while others are application oriented the purpose of the volume is to teach the reader how to use the formal analysis methods which does not require a deep understanding of the underlying mathematical theory

Coloured Petri Nets

1997-05-20

it was our great pleasure to hold the 2nd international symposium onautomated te nology on veri cation and analysis atva in taipei taiwan roc october 31 november3 2004 theseriesofatvameetingsisintendedforthepromotionofrelated research in eastern asia in the last decade automated technology on veri cation has become the new strength in industry and brought forward various hot research activities in both europe and usa in comparison easternasia has been quiet in the forum with more and more ic design houses moving from siliconvalley to easternasia we believe this is a good time to start cultivating related research activities in the region theemphasisoftheatvaworkshopseriesisonvariousmechanicalandinformative techniques which can give engineers valuable feedback to fast converge their designs according to the speci cations the scope of interest contains the following research eas model checking theory theorem proving theory state space reduction techniques languages in automated veri cation parametric analysis optimization formal perf mance analysis real time systems embedded systems in nite state systems petri nets uml synthesis tools and practice in industry

Automated Technology for Verification and Analysis

2004-10-11

petri nets do not designate a single modeling formalism in fact newcomers to the field confess sometimes to be a little puzzled by the diversity of formalisms that are recognized under this umbrella disregarding some extensions to the theoretical modeling capabilities and looking at the level of abstraction of the formalisms condition event elementary place transition predicate transition colored object oriented net systems are frequently encountered in the literature on the other side provided with appropriate interpretative extensions controled net systems marking diagrams the petri net generalization of state diagrams or the many many variants in which time can be explicitly incorporated time d deterministic generalized stochastic fuzzy are defined this represents another way to define practical formalisms that can be obtained by the cro product of the two mentioned dimensions thus petri nets constitute a modeling paradigm understandable in a broad sense as the total pattern of perceiving conceptualising acting validating and valuing associated with a particular image of reality that prevails in a science or a branch of science thomas s kuhn

Discrete, Continuous, and Hybrid Petri Nets

2005-09-08

the scientific developments at the end of the past millennium were dominated by the huge increase and diversity of disciplines with the common label computer science the theoretical foundations of such disciplines have become known as theoretical computer science this book highlights some key issues of theoretical computer science as they seem to us now at the beginning of the new millennium the text is based on columns and tutorials published in the bulletin of the european association for theoretical computer science in the period 1995 2000 the columnists themselves selected the material they wanted for the book and the editors had a chance to update their work indeed much of the material presented here appears in a form quite different from the original since the presentation of most of the articles is reader friendly and does not presuppose much knowledge of the area the book constitutes suitable supplementary reading material for various courses in computer science

Current Trends In Theoretical Computer Science - Entering The 21st Century

2001-02-12

the main aims of the series of volumes advances in petri nets are to present to the outside scientific community a fair picture of recent advances in the area of petri nets and to encourage those interested in the applications and the theory of concurrent systems to take a closer look at petri nets and then join the group of researchers working in this fascinating and challenging area this volume is based on the proceedings of the 12th international conference on applications and theory of petri nets held in gjern denmark in june 1991 it contains 18 selected and revised papers covering all aspects of recent petri net research

Advances in Petri Nets 1993

1993-05-27

at the beginning we would like to introduce a refinement the term vlsi planarization means planarization of a circuit of vlsi le the embedding of a vlsi circuit in the plane by different criteria such as the minimum number of connectors the minimum total length of connectors the minimum number of over the element routes etc a connector is designed to connect the broken sections of a net it can be implemented in different ways depending on the technology connectors for a bipolar vlsi are implemented by diffused tun nels for instance by over the element route we shall mean a connection which intersects the enclosing rectangle of an element or a cell the possibility of the construction such connections during circuit planarization is reflected in element models and can be ensured for example by the availability of areas within the rectangles where connections may be routed vlsi planarization is one of the basic stages others will be discussed below of the so called topological in the mathematical sense approach to vlsi design this approach does not lie in the direction of the classical approach to automation of vlsi layout design in the classical approach to computer aided design the placement and routing problems are solved successively the topological approach in contrast allows one to solve both problems at the same time this is achieved by constructing a planar embedding of a circuit and obtaining the proper vlsi layout on the basis of it

VLSI Planarization

2012-12-06

this volume documents the progress of application and theory of petri nets since the advanced course on general net theory of processes and systems held in hamburg october 8 19 1979 this course presen ted in detail wha t had been achieved in this area since the first studies of concurrent systems 20 years ago after this course it seemed worthwhile to establish a co operation between different groups working in the field of petri n ets the starting points were the afcet special interest group systemes paralleles et distribues and the gl special interest group petrinetze und verwandte systemmodelle meanwhile group s of many european countries are involved a main activity of this co operation is the realization of workshops in varying european countries the first workshop of this kind was carried out in strasbourg france september 23 26 1980 the second one took place in bad honnef germany september 28 30 1981 this volume contains contributions of these two workshops the 1980 workshop in strasbourg was partitioned into 6 topics 1 application of nets to realtime systems 2 programming languages and software engineering 3 information flow and concurrency 4 net morphisms and high level petri nets 5 mathematical analysis and n et languages 6 reliability and recovery issues in this volume the chairman of each topic gives a short introduction to his area whict should help to understand its specific problems and to in troduce the presented papers

ECKM 2002 Third European Conference on Knowledge Managemnt

2002

this book presents state of the art research in theoretical computer science and related elds in particular the following areas are discussed automata theory formal languages and combinatorics of words graph transformations petri nets concurrency as well as natural and molecular computing the articles are written by leading researchers in these areas the writers were originally invited to contribute to this book but then the normal refereeing procedure was applied as well all of the articles deal with some issue that has been under vigorous study during recent years still the topics range from very classical ones to issues raised only two or three years ago both survey articles and papers attacking speci c research problems are included the book highlights some key issues of theoretical computer science as they seem to us now at the beginning of the new millennium being a comprehensive overview of some of the most active current research in theoretical computer science it should be of de nite interest for all researchers in the areas covered the topics range from basic decidability and the notion of information to graph grammars and graph transformations and from trees and traces to aqueous algorithms dna encoding and self assembly special e ort has been given to lucid presentation therefore the book should be of interest also for advanced students

Application and Theory of Petri Nets

2012-12-06

the molecular mechanisms underlying the fact that a crystal can take a variety of external forms is something we have come to understand only in the last few decades this is due to recent developments in theoretical and experimental investigations of crystal growth mechanisms morphology of crystals is

divided into three separately available volumes part a contains chapters on roughening transition equilibrium form step pattern theory modern pbc and surface microtopography this part provides essentially theoretical treatments of the problem particularly the solid liquid interface part b contains chapters on ultra fine particles minerals transition from polyhedral to dendrite theory of dendrite and snow crystals all chapters are written by world leaders in their respective areas and some can be seen as representing the essence of a life s work this is the first english language work which covers all aspects of the morphology of crystals a topic which has attracted top scientific minds for centuries as such it is indispensable for anyone seeking an answer to a question relating to this fascinating problem mineralogists petrologists crystallographers materials scientists workers in solid state physics and chemistry etc in parts a fundamentals and b fine particles minerals and snow equilibrium and kinetic properties of crystals are generally approached from an atomistic point of view in contrast part c the geometry of crystal growth follows the alternative and complementary geometrical description where bulk phases are considered as continuous media and their interfaces as mathematical surfaces with orientation dependent properties equations of motion for a crystal surface are expressed in terms of vector and tensor operators working on surface free energy and growth rate both expressed as functions of surface orientation and driving force or affinity for growth this approach emphasizes the interrelation between equilibrium and kinetic behavior part 1 establishes the theoretical framework part 2 gives a construction toolbox for explicit analytic functions an extra chapter is devoted to experimental techniques for measuring such functions a new approach to sphere growth experiments the emphasis throughout is on principles and new concepts audience advanced readers familiar with traditional aspects of crystal growth theory can be used as the basis for an advanced course provided supplementation is provided in the areas of atomistic models of the advancing surface diffusion fields etc

Formal and Natural Computing

2002-02-06

this book a mosaic of computational topics from classical to novel is a collection of papers published to honor professor jetty kleijn on the occasion of her 65th birthday the scope and reach of her research is truly broad she has made significant and lasting contributions in several research areas both through the solving of challenging problems and in her pioneering of new research directions she has published influential papers contributing to the foundations of computer science in particular in the area of formal languages and automata theory to concurrency theory in particular petri nets and to natural computing in particular bio inspired computing and the computational modeling of bio processes a significant part of professor kleijn s research portfolio is interdisciplinary including her work on the petri net modeling of biological processes and the development of novel models of information processing in bio systems such as reaction systems she is also passionately engaged in promoting the involvement of women in computer science jetty and her work are well recognized by the scientific community a fact demonstrated by the enthusiastic response to the invitation to contribute to this book and the 14 carefully refereed papers collected together here explore a number of research topics that are either directly or indirectly related to research directions pursued by jetty kleijn in the course of her career

Morphology of Crystals

1988-02-29

this book constitutes the thoroughly refereed post workshop proceedings of the 5th international

workshop on services and formal methods ws fm 2008 held in milan italy in september 2008 in conjunction with the 6th international conference on business process management bpm 2008 the 13 revised full papers presented together with one invited paper were carefully reviewed and selected from 39 submissions the papers feature topics such as analysis test and verification choreographies and process calculi transactions and interoperability workflows and petri nets

A Mosaic of Computational Topics: from Classical to Novel

2020-11-20

for the second time the european software engineering conference is being held jointly with the acm sigsoft symposium on the foundations of software engine ing fse although the two conferences have different origins and traditions there is a significant overlap in intent and subject matter holding the conferences jointly when they are held in europe helps to make these thematic links more explicit and enco ages researchers and practitioners to attend and submit papers to both events the esec proceedings have traditionally been published by springer verlag as they are again this year but by special arrangement the proceedings will be distributed to members of acm sigsoft as is usually the case for fse esec fse is being held as a single event rather than as a pair of collocated events submitted papers were therefore evaluated by a single program committee esec fse represents a broad range of software engineering topics in mainly two continents and consequently the program committee members were selected to represent a spectrum of both traditional and emerging software engineering topics a total of 141 papers were submitted from around the globe of these nearly half were classified as research pers aquarterasexperiencepapers andtherestasbothresearchandexperiencepapers twenty nine papers from five continents were selected for presentation and inclusion in the proceedings due to the large number of industrial experience reports submitted we have also introduced this year two sessions on short case study presentations

Web Services and Formal Methods

2009-05-19

chapters on the current state of reproducibility and reporting of uncertainty for aspect based sentimentanalysis and contextualized graph embeddings for adverse drug event detection are licensed under theterms of the creative commons attribution 4 0 international license creativecommons org licenses by 4 0 for further details see license information in the chapter

<u>Software Engineering - ESEC/FSE '99</u>

1999-08-30

this is an invaluable five volume reference on the very broad and highly significant subject of computer aided and integrated manufacturing systems it is a set of distinctly titled and well harmonized volumes by leading experts on the international scene the techniques and technologies used in computer aided and integrated manufacturing systems have produced and will no doubt continue to produce major annual improvements in productivity which is defined as the goods and services produced from each hour of work this publication deals particularly with more effective utilization of labor and capital especially information technology systems together the five volumes treat comprehensively the major

techniques and technologies that are involved contents neural networks techniques for the optical inspection of machined parts n guglielmi et al computer techniques and applications of automated process planning in manufacturing systems k a aldakhilallah r ramesh internet based manufacturing systems techniques and applications h lau and other articles readership graduate students academics researchers and industrialists in computer engineering industrial engineering mechanical engineering systems engineering artificial intelligence and operations management

Machine Learning and Knowledge Discovery in Databases

2023-03-16

algorithms for vlsi physical design automation second edition is a core reference text for graduate students and cad professionals based on the very successful first edition it provides a comprehensive treatment of the principles and algorithms of vlsi physical design presenting the concepts and algorithms in an intuitive manner each chapter contains 3 4 algorithms that are discussed in detail additional algorithms are presented in a somewhat shorter format references to advanced algorithms are presented at the end of each chapter algorithms for vlsi physical design automation covers all aspects of physical design in 1992 when the first edition was published the largest available microprocessor had one million transistors and was fabricated using three metal layers now we process with six metal layers fabricating 15 million transistors on a chip designs are moving to the 500 700 mhz frequency goal these stunning developments have significantly altered the vlsi field over the cell routing and early floorplanning have come to occupy a central place in the physical design flow this second edition introduces a realistic picture to the reader exposing the concerns facing the vlsi industry while maintaining the theoretical flavor of the first edition new material has been added to all chapters new sections have been added to most chapters and a few chapters have been completely rewritten the textual material is supplemented and clarified by many helpful figures audience an invaluable reference for professionals in layout design automation and physical design

Computer Aided and Integrated Manufacturing Systems

2003

the book is concerned with the broad topic of software engineering it comprises the proceedings of the european software engineering conference esec held at the university of warwick in the united kingdom in september 1989 and its primary purpose is to summarise the state of the art in software engineering as represented by the papers at that conference the material covers both submitted papers and a number of invited papers given at the conference the topics covered include metrics and measurement software process modelling formal methods including their use in industry software configuration management software development environments and requirements engineering the book is most likely to be of interest to researchers and professionals working in the field of software development the primary value of the book is that it gives an up to date treatment of its subject material and includes some interesting discussions of the transfer of research ideas into industrial practice

Algorithms for VLSI Physical Design Automation

2012-12-06

reuse and integration are defined as synergistic concepts where reuse addresses how to minimize redundancy in the creation of components while integration focuses on component composition integration supports reuse and vice versa these related concepts support the design of software and systems for maximizing performance while minimizing cost knowledge like data is subject to reuse and each can be interpreted as the other this means that inherent complexity a measure of the potential utility of a system is directly proportional to the extent to which it maximizes reuse and integration formal methods can provide an appropriate context for the rigorous handling of these synergistic concepts furthermore formal languages allow for non ambiguous model specification and formal verification techniques provide support for insuring the validity of reuse and integration mechanisms this edited book includes 12 high quality research papers written by experts in formal aspects of reuse and integration to cover the most recent advances in the field these papers are extended versions of some of the best papers which were presented at the ieee international conference on information reuse and integration and the ieee international workshop on formal methods integration both of which were held in san francisco in august 2014

ESEC '89

1989

this book is the combined proceedings of the latest ifip formal description techniques fdts and protocol specification testing and verification pstv series it addresses fdts applicable to communication protocols and distributed systems with special emphasis on standardised fdts it features state of the art in theory application tools and industrialisation of formal description

Formalisms for Reuse and Systems Integration

2015-03-27

as the main theme of improving complex systems today implies this book is intended to provide readers with a new perspective on concurrent engineering from the standpoint of systems engineering it can serve as a versatile tool to help readers to navigate the ever changing state of this particular field the primary focus of concurrent engineering was at first on bringing downstream information as far upstream as possible by introducing parallel processing in order to reduce time to market and to prevent errors at a later stage which would sometimes cause irrevocable damage up to now numerous new concepts methodologies and tools have been developed but over concurrent engineering s 20 year history the situation has changed extensively now industry has to work in the global marketplace and to cope with diversifying requirements and increasing complexities such globalization and diversification necessitate collaboration across different fields and across national boundaries thus the new concurrent engineering calls for a systems approach to gain global market competitiveness improving complex systems today provides a new insight into concurrent engineering today

Formal Description Techniques IX

2016-01-09

this book constitutes the refereed proceedings of the 11th ifip wg 5 5 socolnet advanced doctoral conference on computing electrical and industrial systems doceis 2020 held in costa de caparica portugal

in july 2020 the 20 full papers and 24 short papers presented were carefully reviewed and selected from 91 submissions the papers present selected results produced in engineering doctoral programs and focus on technological innovation for industry and service systems research results and ongoing work are presented illustrated and discussed in the following areas collaborative networks decisions systems analysis and synthesis algorithms communication systems optimization systems digital twins and smart manufacturing power systems energy control power transportation biomedical analysis and diagnosis and instrumentation in health

Graph Transformation

2002

vlsi design environments investigates design alternatives such as object oriented data modelling the difficulty of automating chip architecture designs is caused by the complexity of the problem the explosion of design decions make a heuristic approach necessary playout aims at the solution of system problems based on hierarchy top down planning silicon complier presentations advances in encoding logic synthesis and a microarchitecre and logic optimization system playout supports the physical design from entering the structure of digital systems to the generation of the mask the concept for autonomous tools with a clear interface to the network description and the simple interface to the graphics is presented this enables the designer to have a great influence on the configuration of the placement of the schematic diagram substantial progress is being made in behavioural and logic synthesis both of which depend upon specifications

Improving Complex Systems Today

2011-07-09

grid computing requires the use of software that can divide and farm out pieces of a program to as many as several thousand computers this book explores processes and techniques needed to create a successful grid infrastructure leading researchers in europe and the us look at the development of specialist tools and environments which will encourage the convergence of the parallel programming distributed computing and data management communities specific topics covered include an overview of structural and behavioural properties of computer grid applications discussion of alternative programming techniques case studies displaying the potential of computer grids in solving real problems this book is unique in its outline of the needs of computational grids both in integration of high end resources using ogsa globus and the loose integration of peer 2 peer entropia united devices readers will gain an insight on the limitations of existing approaches as well as the standardisation activities currently taking place

Technological Innovation for Life Improvement

2020-04-29

optimal analysis is defined as an analysis that creates and uses sparse well structured and well conditioned matrices the focus is on efficient methods for eigensolution of matrices involved in static dynamic and stability analyses of symmetric and regular structures or those general structures containing such components powerful tools are also developed for configuration processing which is an

important issue in the analysis and design of space structures and finite element models different mathematical concepts are combined to make the optimal analysis of structures feasible canonical forms from matrix algebra product graphs from graph theory and symmetry groups from group theory are some of the concepts involved in the variety of efficient methods and algorithms presented the algorithms elucidated in this book enable analysts to handle large scale structural systems by lowering their computational cost thus fulfilling the requirement for faster analysis and design of future complex systems the value of the presented methods becomes all the more evident in cases where the analysis needs to be repeated hundreds or even thousands of times as for the optimal design of structures by different metaheuristic algorithms the book is of interest to anyone engaged in computer aided analysis and design and software developers in this field though the methods are demonstrated mainly through skeletal structures continuum models have also been added to show the generality of the methods the concepts presented are not only applicable to different types of structures but can also be used for the analysis of other systems such as hydraulic and electrical networks

VLSI Design Environments

2000-04-17

the ifip tc 10 working conference on distributed and parallel embedded systems dipes 2004 brings together experts from industry and academia to discuss recent developments in this important and growing field in the splendid city of toulouse france the ever decreasing price performance ratio of microcontrollers makes it economically attractive to replace more and more conventional mechanical or electronic control systems within many products by embedded real time computer systems an embedded real time computer system is always part of a well specified larger system which we call an intelligent product although most intelligent products start out as stand alone units many of them are required to interact with other systems at a later stage at present many industries are in the middle of this transition from stand alone products to networked embedded systems this transition requires reflection and architecting the complexity of the evolving distributed artifact can only be controlled if careful planning and principled design methods replace the hoc engineering of the first version of many standalone embedded products

Grid Computing: Software Environments and Tools

2007-07-03

this book addresses the design of such tools for correct by construction synthesis of supervisors for systems and specifications represented in the discrete event framework the approach employed uses petri nets as discrete event models and structural methods for the synthesis of supervisors and may lead to significant computational benefits highlighting recent progress in the design of supervisors by structural methods the book represents a novel contribution to the field one of the main features of the presentation is the demonstration that structural methods can address a variety of supervisor specifications under diverse supervision settings

Optimal Analysis of Structures by Concepts of Symmetry and

Regularity

2013-05-16

this book constitutes the proceedings of the 23rd international workshop on computer science logic csl 2009 held in coimbra portugal in september 2009 the 34 papers presented together with 5 invited talks were carefully reviewed and selected from 89 full paper submissions all current aspects of logic in computer science are addressed ranging from foundational and methodological issues to application issues of practical relevance the book concludes with a presentation of this year s ackermann award the eacsl outstanding dissertation award for logic in computer science

Design Methods and Applications for Distributed Embedded Systems

2006-04-11

this volume contains the proceedings of the 19th annual international conference on application and theory of petri nets the aim of the petri net conference is to create a forum for the dissemination of the latest results in the application and theory of petri nets it always takes place in the last week of june typically there are 150 200 participants about one third of these come from industry while the rest are from universities and research institutions the conferences and a number of other activities are coordinated by a steering committee with the following members g balbo italy j billington australia g demichelis italy c girault france k jensen denmark s kumagai japan t murata usa c a petri germany honorary member w reisig germany g roucairol france g rozenberg the netherlands chairman m silva spain the 19th conference has been organized for the rst time in portugal by the department of electrical engineering of the faculty of sciences and technology of the new university of lisbon together with the center for intelligent robotics of uninova it takes place in lisbon at the same time as expo 98 the last world exhibition of the 20th century

Supervisory Control of Concurrent Systems

2007-06-04

the refereed proceedings of the international conference on business process management bpm 2003 held in eindhoven the netherlands in june 2003 the 25 revised full papers presented together with an introductory survey article were carefully reviewed and selected from 77 submissions among the issues addressed are services workflow modeling business process modeling collaborative computing computer supported collaborative work workflow patterns business process engineering business process patterns workflow systems petri nets process services business process reengineering and business process management tools

Computer Science Logic

2009-08-28

over the years the fundamentals of vlsi technology have evolved to include a wide range of topics and a broad range of practices to encompass such a vast amount of knowledge the vlsi handbook focuses on

the key concepts models and equations that enable the electrical engineer to analyze design and predict the behavior of very large scale integrated circuits it provides the most up to date information on ic technology you can find using frequent examples the handbook stresses the fundamental theory behind professional applications focusing not only on the traditional design methods it contains all relevant sources of information and tools to assist you in performing your job this includes software databases standards seminars conferences and more the vlsi handbook answers all your needs in one comprehensive volume at a level that will enlighten and refresh the knowledge of experienced engineers and educate the novice this one source reference keeps you current on new techniques and procedures and serves as a review for standard practice it will be your first choice when looking for a solution

Application and Theory of Petri Nets 1998

2003-06-26

TAPSOFT

1989

Business Process Management

2003-08-03

The VLSI Handbook

2019-07-17