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Node.js Function/Architecture Optimization and Co-Design of Embedded Systems Node.js Design Patterns Node.js Design Patterns Design and Modeling of Low Power VLSI Systems Recent Developments in Mechatronics and Intelligent Robotics Design and Analysis of Traffic-groomable Optical WDM Networks Embedded System Design: Topics, Techniques and Trends Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications Handbook of Optimization in Telecommunications Facilities Design HTML/CSS Unifying Electrical Engineering and Electronics Engineering Evolving Developments in Grid and Cloud Computing: Advancing Research Algorithms and Complexity Great Lakes 4th Symposium on VLSI Node.js Design Patterns Advances in Communication, Network, and Computing Distributed Systems Environmental Design Best Selection Emerging Security Algorithms and Techniques Fault-tolerant Interconnection Networks for Multiprocessors Computer Design Artificial Intelligence and Computational Intelligence Social Informatics Official Gazette of the United States Patent and Trademark Office Studies in Pattern Recognition Embedded Software 1998 Asia Pacific Software Engineering Conference Large-Scale Solar Power System Design (GreenSource Books) New Frontiers in Graph Theory Wireless Algorithms, Systems, and Applications Artificial Intelligence and Soft Computing Marine Design XIII Waves and Stability in Continuous Media Interpolation and Extrapolation Optimal Designs 2 VLSI Design International Conference on Computer Design (ICCD '99) VLSI Systems Design Approximation and Online Algorithms

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Function/Architecture Optimization and Co-Design of Embedded Systems 2012-12-06 function architecture co design is a new paradigm for the design and implementation of embedded systems function architecture optimization and co design of embedded systems presents the authors work in developing a function architecture optimization and co design formal methodology and framework for control dominated embedded systems the approach incorporates both data flow and control optimizations performed on a suitable novel intermediate design task representation the aim is not only to enhance productivity of the designer and system developer but also to improve quality of the final synthesis outcome function architecture optimization and co design of embedded systems discusses the proposed function architecture co design methodology focusing on design representation optimization validation and synthesis throughout the text the difference between behavior specification and implementation is emphasized the current need in co design to move from synthesis based technology to compiler based technology is pointed out the authors describe and show how performing data flow and control optimizations at the high abstraction level can lead to significant size and performance improvements in both the synthesized hardware and software the work builds on bodies of research in the silicon and software compilation domains the aforementioned techniques are specialized to the embedded systems domain it is recognized that guided optimization can be applied on the internal design representation no matter what the abstraction level and need not be restricted to the final stages of software assembly code generation or hardware synthesis function architecture optimization and co design of embedded systems will be of primary interest to researchers developers and professionals in the field of embedded systems design

Node.js Design Patterns 2016-07-18 get the best out of node js by mastering its most powerful components and patterns to create modular and scalable applications with ease about this book create reusable patterns and modules by leveraging the new features of node js understand the asynchronous single thread design of node and grasp all its features and patterns to take advantage of various functions this unique guide will help you get the most out of node js and its ecosystem who this book is for the book is meant for developers and software architects with a basic working knowledge of javascript who are interested in acquiring a deeper understanding of how to design and develop enterprise level node js applications basic knowledge of node js is also helpful to get the most out of this book what you will learn design and implement a series of server side javascript patterns so you understand why and when to apply them in different use case scenarios become comfortable with writing asynchronous code by leveraging constructs such as callbacks promises generators and the async await syntax identify the most important concerns and apply unique tricks to achieve higher scalability and modularity in your node js application untangle your modules by organizing and connecting them coherently reuse well known techniques to solve common design and coding issues explore the latest trends in universal javascript learn how to write code that runs on both node js and the browser and leverage react and its ecosystem to implement universal applications in detail node js is a massively popular software platform that lets you use javascript to easily create scalable server side applications it allows you to create efficient code enabling a more sustainable way of writing software made of only one language across the full stack along with extreme levels of reusability pragmatism simplicity and collaboration node js is revolutionizing the web and the way people and companies create their software in this book we will take you on a journey across various ideas and components and the challenges you would commonly encounter while designing and developing software using the node js platform you will also discover the node js way of dealing with design and coding decisions the book kicks off by exploring the basics of node js describing it s asynchronous single threaded architecture and the main design patterns it then shows you how to master the asynchronous control flow patterns and the stream component and it culminates into a detailed list of node js implementations of the most common design patterns as well as some specific design patterns that are exclusive to the node js world lastly it dives into more advanced concepts such as universal javascript and scalability and it s meant to conclude the journey by giving the reader all the necessary concepts to be able to build an enterprise grade application using node js style and approach this book takes its intended readers through a comprehensive explanation to create a scalable and efficient real time server side apps

Node.js Design Patterns 2020-07-29 learn proven patterns techniques and tricks to take full advantage of the node js platform master well known design principles to create applications that are readable extensible and that can grow big purchase of the print or kindle book includes a free ebook in the pdf format key features learn how to create solid server side applications by leveraging the full power of node js understand how node js works and learn how to take full advantage of its core components as well as the solutions offered by its ecosystem avoid common mistakes and use proven patterns to create production grade node js applications book descriptionin this book we will show you how to implement a

series of best practices and design patterns to help you create efficient and robust node js applications with ease we kick off by exploring the basics of node js analyzing its asynchronous event driven architecture and its fundamental design patterns we then show you how to build asynchronous control flow patterns with callbacks promises and async await next we dive into node js streams unveiling their power and showing you how to use them at their full capacity following streams is an analysis of different creational structural and behavioral design patterns that take full advantage of javascript and node js lastly the book dives into more advanced concepts such as universal javascript scalability and messaging patterns to help you build enterprise grade distributed applications throughout the book you ll see node js in action with the help of several real life examples leveraging technologies such as leveldb redis rabbitmq zeromq and many others they will be used to demonstrate a pattern or technique but they will also give you a great introduction to the node js ecosystem and its set of solutions what you will learn become comfortable with writing asynchronous code by leveraging callbacks promises and the async await syntax leverage node js streams to create data driven asynchronous processing pipelines implement well known software design patterns to create production grade applications share code between node js and the browser and take advantage of full stack javascript build and scale microservices and distributed systems powered by node js use node js in conjunction with other powerful technologies such as redis rabbitmq zeromq and leveldb who this book is for this book is for developers and software architects who have some prior basic knowledge of javascript and node js and now want to get the most out of these technologies in terms of productivity design quality and scalability software professionals with intermediate experience in node js and javascript will also find valuable the more advanced patterns and techniques presented in this book this book assumes that you have an intermediate understanding of web application development databases and software design principles

Design and Modeling of Low Power VLSI Systems 2016-06-06 very large scale integration vlsi systems refer to the latest development in computer microchips which are created by integrating hundreds of thousands of transistors into one chip emerging research in this area has the potential to uncover further applications for vsli technologies in addition to system advancements design and modeling of low power vlsi systems analyzes various traditional and modern low power techniques for integrated circuit design in addition to the limiting factors of existing techniques and methods for optimization through a research based discussion of the technicalities involved in the vlsi hardware development process cycle this book is a useful resource for researchers engineers and graduate level students in computer science and engineering

Recent Developments in Mechatronics and Intelligent Robotics 2018-10-04 this book is a collection of proceedings of the international conference on mechatronics and intelligent robotics icmir2018 held in kunming china during may 19 20 2018 it consists of 155 papers which have been categorized into 6 different sections intelligent systems robotics intelligent sensors actuators mechatronics computational vision and machine learning and soft computing the volume covers the latest ideas and innovations both from the industrial and academic worlds as well as shares the best practices in the fields of mechanical engineering mechatronics automatic control iot and its applications in industry electrical engineering finite element analysis and computational engineering the volume covers key research outputs which delivers a wealth of new ideas and food for thought to the readers

Design and Analysis of Traffic-groomable Optical WDM Networks 2003 this volume presents the technical program of the 2007 international embedded systems symposium held in irvine california it covers timely topics techniques and trends in embedded system design including design methodology networks on chip distributed and networked systems and system verification it places emphasis on automotive and medical applications and includes case studies and special aspects in embedded system design

Embedded System Design: Topics, Techniques and Trends 2010-05-09 this comprehensive handbook brings together experts who use optimization to solve problems that arise in telecommunications it is the first book to cover in detail the field of optimization in telecommunications recent optimization developments that are frequently applied to telecommunications are covered the spectrum of topics covered includes planning and design of telecommunication networks routing network protection grooming restoration wireless communications network location and assignment problems internet protocol world wide and stochastic issues in telecommunications the book s objective is to provide a reference tool for the increasing number of scientists and engineers in telecommunications who depend upon optimization

Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications 1998 dedicated to the proper design layout and location of facilities this definitive textbook outlines the main design and operational problems that occur in manufacturing and service systems explains the significance of facility design and planning problems and describes how mathematical models can be used to help analyze and solve them combining theory with practice this revised textbook presents state of the art topics in materials handling warehousing and logistics along with real world examples that emphasize the importance of modeling and analysis when determining a solution to complex facility design problems facilities design fifth edition includes a balanced coverage of modeling

as well as applications of layout materials handling and warehousing it presents automated materials handling along with queuing queuing networks and basic simulation modeling the new edition introduces new material that includes topics such as supply chain designing and management aggregate planning and transportation logistics and distribution the new edition will continue to provide access to available software and data files as well as powerpoint slides from the author s own website facilitiesdesign us a solutions manual and figure slides are available for qualified textbooks adoptions the book addresses facilities design and layout problems in manufacturing systems and covers layout logistics supply chain aggregate planning warehousing and materials handling the new edition continues to explain the ins and outs of facility planning and design and is an ideal textbook for students and a reference for professionals *Handbook of Optimization in Telecommunications* 2008-12-10 5 1 2 3 css html 4 web 5 web web html css html css css web web css web css web

Facilities Design 2022-07-14 unifying electrical engineering and electronics engineering is based on the proceedings of the 2012 international conference on electrical and electronics engineering icee 2012 this book collects the peer reviewed papers presented at the conference the aim of the conference is to unify the two areas of electrical and electronics engineering the book examines trends and techniques in the field as well as theories and applications the editors have chosen to include the following topics biotechnology power engineering superconductivity circuits antennas technology system architectures and telecommunication

 HTML/CSS 2016-08-16 this book contains investigations of grid and cloud evolution workflow management and the impact new computing systems have on education and industry provided by publisher

Unifying Electrical Engineering and Electronics Engineering 2013-08-24 this first part presents chapters on models of computation complexity theory data structures and efficient computation in many recognized sub disciplines of theoretical computer science

Evolving Developments in Grid and Cloud Computing: Advancing Research 2012-01-31 the proceedings of gslv 94 held at the u of notre dame south bend indiana in march 1994 comprise technical papers in sessions on high level synthesis and verification systolic arrays fault tolerance theoretical results in routing logic synthesis mcm high performance architectures application specific design routing algorithms circuit

Algorithms and Complexity 1990-09-12 if you re a javascript developer interested in a deeper understanding of how to create and design node js applications this is the book for you

Great Lakes 4th Symposium on VLSI 1994 this book constitutes the thoroughly refereed proceedings of the third international conference on advances in communication network and computing cnc 2012 held in chennai india february 24 25 2012 the 41 revised full papers presented together with 29 short papers and 14 poster papers were carefully selected and reviewed from 425 submissions the papers cover a wide spectrum of issues in the field of information technology networks computational engineering computer and telecommunication technology ranging from theoretical and methodological issues to advanced applications

Node.js Design Patterns 2014-12-29 distributed systems an algorithmic approach second edition provides a balanced and straightforward treatment of the underlying theory and practical applications of distributed computing as in the previous version the language is kept as unobscured as possible clarity is given priority over mathematical formalism this easily digestible text features significant updates that mirror the phenomenal growth of distributed systems explores new topics related to peer to peer and social networks includes fresh exercises examples and case studies supplying a solid understanding of the key principles of distributed computing and their relationship to real world applications distributed systems an algorithmic approach second edition makes both an ideal textbook and a handy professional reference

Advances in Communication, Network, and Computing 2012-11-28 cyber security is the protection of information systems hardware software and information as well from theft damages interruption or misdirection to any of these resources in other words cyber security focuses on protecting computers networks programs and data in use in rest in motion from unauthorized or unintended access change or destruction therefore strengthening the security and resilience of cyberspace has become a vital homeland security mission cyber security attacks are growing exponentially security specialists must occupy in the lab concocting new schemes to preserve the resources and to control any new attacks therefore there are various emerging algorithms and techniques viz des aes idea wake cast5 serpent algorithm chaos based cryptography mceliece niederreiter ntru goldreich goldwasser halevi identity based encryption and attribute based encryption there are numerous applications of security algorithms

like cyber security web security e commerce database security smart card technology mobile security cloud security digital signature etc the book offers comprehensive coverage of the most essential topics including modular arithmetic finite fields prime number dlp integer factorization problem symmetric cryptography asymmetric cryptography post quantum cryptography identity based encryption attribute based encryption key management entity authentication message authentication digital signatures hands on sagemath this book serves as a textbook reference book for ug pg phd students teachers researchers and engineers in the disciplines of information technology computer science and engineering and electronics and communication engineering

Distributed Systems 2014-07-14 this three volume proceedings contains revised selected papers from the second international conference on artificial intelligence and computational intelligence aici 2011 held in taiyuan china in september 2011 the total of 265 high quality papers presented were carefully reviewed and selected from 1073 submissions the topics of part ii covered are heuristic searching methods immune computation information security information theory intelligent control intelligent image processing intelligent information fusion intelligent information retrieval intelligent signal processing knowledge representation and machine learning

Environmental Design Best Selection 1993 this book constitutes the proceedings of the third international conference on social informatics socinfo 2011 held in singapore in october 2011 the 15 full papers 8 short papers and 13 posters included in this volume were carefully reviewed and selected from 68 full paper and 13 poster submissions the papers are organized in topical sections named network analysis egovernance and knowledge management applications of network analysis community dynamics case studies trust privacy and security peer production

Emerging Security Algorithms and Techniques 2019-05-20 more than ten years have passed since the untimely death of king sun fu one of the great pioneers in the field of pattern recognition it was he more than any other single individual who nurtured the field during its formative years and set the tone and tempo for others to follow this book is dedicated to his memory this book contains 11 chapters by authors who knew king sun fu and in varying degrees interacted with him the articles span the field of pattern recognition in its current state and cover such diverse topics as neural nets covariance propagation genetic selection shape description characteristic views for 3d modeling face recognition speech recognition and machine translation in tone they vary from the highly theoretical to the applied their presentation here is a testimonial by his former colleagues and friends to the pioneer who did so much to bring pattern recognition to its position as a recognized discipline world wide

Fault-tolerant Interconnection Networks for Multiprocessors 1994 this book constitutes the refereed proceedings of the third international conference on embedded software emsoft 2003 held in philadelphia pa usa in october 2003 the 20 revised full papers presented together with three invited papers were carefully reviewed and selected from 60 submissions all current topics in embedded software are addressed formal methods and model based development middleware and fault tolerance modelling and analysis programming languages and compilers real time scheduling resource aware systems and systems on a chip

Computer Design 1983 partial contents architecture framework components formal methods metrics quality assurance software design methodology validation verification uml software development environment object oriented techniques distributed mobil systems user interface

Artificial Intelligence and Computational Intelligence 2011-09-25 the definitive guide to large scale grid connected solar power system design and construction this greensource book provides comprehensive engineering design and construction guidelines for large scale solar power system projects proven design methodologies are detailed installation diagrams are included in this practical resource large scale solar power system design offers complete coverage of solar power system technologies and components planning cost estimates financing project management safety and testing this authoritative guide fully addresses the complex technical and management issues associated with large scale grid connected solar power system implementations coverage includes solar power system technologies including photovoltaic and thin film solar cells solar power system physics photovoltaic power system feasibility study solar power system costing solar power system design large scale solar power system construction concentrator photovoltaic systems solar power system project management smart grid systems solar thermal power solar power financing and feed in tariff programs

Social Informatics 2011-10-12 nowadays graph theory is an important analysis tool in mathematics and computer science because of the inherent simplicity of graph theory it can be used to model many different physical and abstract systems such as transportation and communication networks models for business administration political science and psychology and so on the purpose of this book is not only to present the latest state and development tendencies of graph theory but to bring the reader far enough along the way to enable him to embark on the research problems of his own taking into account the large amount of knowledge about graph theory and practice presented in the book it has two major parts theoretical researches and applications the book is also intended for both graduate and postgraduate students in fields such as mathematics computer science system sciences biology engineering

cybernetics and social sciences and as a reference for software professionals and practitioners

Official Gazette of the United States Patent and Trademark Office 1995 this book constitutes the refereed proceedings of the 7th international conference on wireless algorithms systems and applications wasa 2012 held in yellow mountains china in august 2012 the 24 revised full papers presented together with 32 invited papers were carefully reviewed and selected from 116 submissions the papers cover a wide range of topics such as cognitive radio networks cyber physical network systems mobile handset networking systems underwater and radar wireless networks and wireless and mobile security

Studies in Pattern Recognition 1996 the two volume set lnai 7267 and 7268 together with lncs 7269 constitutes the refereed proceedings of the 11th international conference on artificial intelligence and soft computing icaisc 2012 held in zakopane poland in april may 2012 the 212 revised full papers presented were carefully reviewed and selected from 483 submissions the papers are organized in topical sections on neural networks and their applications computer vision image and speech analysis data mining hardware implementation bioinformatics biometrics and medical applications concurrent parallel processing agent systems robotics and control artificial intelligence in modeling and simulation various problems od artificial intelligence

Embedded Software 2003-09-29 marine design xiii collects the contributions to the 13th international marine design conference imdc 2018 espoo finland 10 14 june 2018 the aim of this imdc series of conferences is to promote all aspects of marine design as an engineering discipline the focus is on key design challenges and opportunities in the area of current maritime technologies and markets with special emphasis on challenges in merging ship design and marine applications of experience based industrial design digitalisation as technological enabler for stronger link between efficient design operations and maintenance in future emerging technologies and their impact on future designs cruise ship and icebreaker designs including fleet compositions to meet new market demands to reflect on the conference focus marine design xiii covers the following research topic series state of art ship design principles education design methodology structural design hydrodynamic design cutting edge ship designs and operations ship concept design risk and safety arctic design autonomous ships energy efficiency and propulsions energy efficiency hull form design propulsion equipment design wider marine designs and practices navy ships offshore and wind farms and production marine design xiii contains 2 state of the art reports on design methodologies and cruise ships design and 4 keynote papers on new directions for vessel design practices and tools digital maritime traffic naval ship designs and new tanker design for arctic marine design xiii will be of interest to academics and professionals in maritime technologies and marine design

1998 Asia Pacific Software Engineering Conference 1998 this book contains about 20 invited papers and 40 contributed papers in the research areas of theoretical continuum mechanics kinetic theory and numerical applications of continuum mechanics collectively these papers give a good overview of the activities and developments in these fields in the last few years the proceedings have been selected for coverage in index to scientific technical proceedings istp isi proceedings index to scientific technical proceedings istp cdrom version isi proceedings cc proceedings engineering physical sciences contents chaos in some linear kinetic models j banasiak inverse problems in photon transport part i determination of physical and geometrical features of an interstellar cloud a belleni morante et al inverse problems in photon transport part ii features of a source inside an interstellar cloud a belleni morante r riganti the riemann problem for a binary non reacting mixture of euler fluids f brini t ruggeri rate of convergence toward the equilibrium in degenerate settings l desvillettes c villani asymptotic and other properties of positive definite integral measures for nonlinear diffusion j n flavin thermocapillary fluid and adiabatic waves near its critical point h gouin constitutive models for atactic elastomers c o horgan g saccomandi considerations about the gibbs paradox i müller transport coefficients in stochastic models of the revised enskog and square well kinetic theories j polewczak g stell some recent mathematical results in mixtures theory of euler fluids t ruggeri from kinetic systems to diffusion equations f salvarani j l vázquez non boussinesq convection in porous media b straughan and other papers readership researchers academics and graduate students working in the fields of continuum mechanics wave propagation stability in fluids kinetic theory and computational fluid dynamics keywords discontinuity and shock waves stability in fluid mechanics small parameter problem kinetic theories towards continuum models non equilibrium thermodynamics numerical applications

Large-Scale Solar Power System Design (GreenSource Books) 2011-05-02 this book considers various extensions of the topics treated in the first volume of this series in relation to the class of models and the type of criterion for optimality the regressors are supposed to belong to a generic finite dimensional haar linear space which substitutes for the classical polynomial case the estimation pertains to a general linear form of the coefficients of the model extending the interpolation and extrapolation framework the errors in the model may be correlated and the model may be heteroscedastic non linear models as well as multivariate ones are briefly discussed the book focuses to a large extent on criteria for optimality and an entire chapter presents algorithms leading to optimal designs in multivariate models elfving s theory and the theorem of equivalence are presented extensively the volume presents an

account of the theory of the approximation of real valued functions which makes it self consistent

New Frontiers in Graph Theory 2012-03-02 the proceedings from the october 1999 conference include 107 technical presentations from 14 different countries not restricted to presented papers this volume includes both the keynote and plenary addresses poster presentations as well as the proceedings of two tutorials one on cad and one on benchmarking selecting and debugging microcontrollers topics covered include applied verification techniques computer arithmetic intelligent memory design convergence test generation and delay testing microarchitecture and digital signal processors no subject index annotation copyrighted by book news inc portland or

Wireless Algorithms, Systems, and Applications 2012-08-10 this book constitutes the thoroughly refereed post proceedings of the 9th international workshop on approximation and online algorithms waoa 2011 held in saarbrücken germany in september 2011 the 21 papers presented were carefully reviewed and selected from 48 submissions the volume also contains an extended abstract of the invited talk of prof klaus jansen the workshop on approximation and online algorithms focuses on the design and analysis of algorithms for online and computationally hard problems both kinds of problems have a large number of applications in a wide variety of fields topics of interest for waoa 2011 were algorithmic game theory approximation classes coloring and partitioning competitive analysis computational finance cuts and connectivity geometric problems inapproximability results mechanism design network design packing and covering paradigms for design and analysis of approximation and online algorithms parameterized complexity randomization techniques and scheduling problems

Artificial Intelligence and Soft Computing 2012-04-17

Marine Design XIII 2018-06-11

Waves and Stability in Continuous Media 2004-04-16

Interpolation and Extrapolation Optimal Designs 2 2017-04-11

VLSI Design 1985

International Conference on Computer Design (ICCD '99) 1999

VLSI Systems Design 1985

Approximation and Online Algorithms 2012-03-26