REAL-TIME SYSTEMS

Scheduling, Analysis, and Verification

ALBERT M. K. CHENG

Real Time Systems Scheduling Iste

Maryline Chetto,Audrey Queudet

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    Real-time Systems Scheduling 2 Maryline Chetto,2014-11-17 Real time systems are used in a wide range of applications including control sensing multimedia etc Scheduling is a central problem for these computing communication systems since it is responsible for software execution in a timely manner This book the second of two volumes on the subject brings together knowledge on specific topics and discusses the recent advances for some of them It addresses foundations as well as the latest advances and findings in real time scheduling giving comprehensive references to important papers but the chapters are short and not overloaded with confusing details Coverage includes scheduling approaches for networks and for energy autonomous systems Other sophisticated issues such as feedback control scheduling and probabilistic scheduling are also addressed This book can serve as a textbook for courses on the topic in bachelor s degrees and in more advanced master s degree programs It also provides a reference for computer scientists and engineers involved in the design or the development of Cyber Physical Systems which require up to date real time scheduling solutions   **Real-time Systems Scheduling 1** Maryline Chetto,2014-11-17 Real time systems are used in a wide range of applications including control sensing multimedia etc Scheduling is a central problem for these computing communication systems since responsible of software execution in a timely manner This book provides state of knowledge in this domain with special emphasis on the key results obtained within the last decade This book addresses foundations as well as the latest advances and findings in Real Time Scheduling giving all references to important papers But nevertheless the chapters will be short and not overloaded with confusing details Coverage includes scheduling approaches for mono core as well as multi core platforms dependent tasks networks and notably very tremendous recent advances in scheduling of energy constrained embedded systems Other sophisticated issues such as feedback control scheduling and timing analysis of critical applications are also addressed This volume can serve as a textbook for courses on the topic in bachelor and in more advanced master programs It also provides a reference for computer scientists and engineers involved in the design or the development of Cyber Physical Systems which require up to date real time scheduling solutions   **Energy Autonomy of Real-Time Systems** Maryline Chetto,Audrey Queudet,2016-11-21 Energy Autonomy of Real Time Systems addresses foundations and findings in real time scheduling and processor activity management for energy harvesting embedded systems serving as a textbook for courses on the topic in master programs and as a reference for computer scientists and engineers involved in the design or development of autonomous cyber physical systems which require up to date solutions Develops theoretical models for energy harvesting real time systems including theorems and schedulability analysis Contains scheduling algorithms that are rigorously derived from the theory based on both real time and energy constraints Covers future potential applications centered on the use of self powered sensor technologies Provides the methodology for developing autonomous real time systems based on energy harvesting   *Service Orientation in Holonic and Multi-Agent Manufacturing* Theodor Borangiu,Damien Trentesaux,André

Thomas,Olivier Cardin,2018-01-31 This book gathers the peer reviewed papers presented at the seventh edition of the international workshop Service Orientation in Holonic and Multi Agent Manufacturing SOHOMA 17 held on October 19 20 2017 and organized by the University of Nantes France in collaboration with the CIMR Research Centre in Computer Integrated Manufacturing and Robotics at the University Politehnica of Bucharest Romania the LAMIH Laboratory of Industrial and Human Automation Control Mechanical Engineering and Computer Science at the University of Valenciennes and Hainaut Cambr sis France and the CRAN Research Centre for Automatic Control Nancy at the University of Lorraine France The main objective of SOHOMA 17 was to foster innovation in smart and sustainable manufacturing and logistics systems and in this context to promote concepts methods and solutions addressing trends in service orientation of agent based control technologies with distributed intelligence The book is organized in eight parts each with a number of chapters describing research in current domains of the digital transformation in manufacturing and trends in future service and computing oriented manufacturing control Part 1 Advanced Manufacturing Control Part 2 Big Data Management Part 3 Cyber Physical Production Systems Part 4 Cloud and Cyber Physical Systems for Smart and Sustainable Manufacturing Part 5 Simulation for Physical Internet and Intelligent Sustainable Logistics Systems Part 6 Formal Methods and Advanced Scheduling for Future Industrial Systems Part 7 Applications and Demonstrators Part 8 Production and Logistic Control Systems The contributions focus on how the digital transformation such as the one advocated by Industry 4 0 or Industry of the future concepts can improve the maintainability and the sustainability of manufacturing processes products and logistics Digital transformation relates to the interaction between the physical and informational worlds and is realized by virtualization of products processes and resources managed as services *Safety and Security of Cyber-Physical Systems* Frank J. Furrer,2022-07-20 Cyber physical systems CPSs consist of software controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators Because most of the functionality of a CPS is implemented in software the software is of crucial importance for the safety and security of the CPS This book presents principle based engineering for the development and operation of dependable software The knowledge in this book addresses organizations that want to strengthen their methodologies to build safe and secure software for mission critical cyber physical systems The book Presents a successful strategy for the management of vulnerabilities threats and failures in mission critical cyber physical systems Offers deep practical insight into principle based software development 62 principles are introduced and cataloged into five categories Business Provides direct guidance on architecting and operating dependable cyber physical systems for software managers and architects *The Inverse Method* Etienne André,Romain Soulat,2013-02-20 This book introduces state of the art verification techniques for real time embedded systems based on the inverse method for parametric timed automata It reviews popular formalisms for the specification and verification of timed concurrent systems and in particular timed automata as well as several extensions such as timed automata equipped with

stopwatches linear hybrid automata and affine hybrid automata The inverse method is introduced and its benefits for guaranteeing robustness in real time systems are shown Then it is shown how an iteration of the inverse method can solve the good parameters problem for parametric timed automata by computing a behavioral cartography of the system Different extensions are proposed particularly for hybrid systems and applications to scheduling problems using timed automata with stopwatches Various examples both from the literature and industry illustrate the techniques throughout the book Various parametric verifications are performed in particular of abstractions of a memory circuit sold by the chipset manufacturer ST Microelectronics as well as of the prospective flight control system of the next generation of spacecraft designed by ASTRIUM Space Transportation   **Deterministic Network Calculus** Anne Bouillard,Marc Boyer,Euriell Le Corronc,2018-10-22 Deterministic network calculus is a theory based on the min plus algebra Its aim is to compute worst case performance bounds in communication networks Our goal is to provide a comprehensive view of this theory and its recent advances from its theoretical foundations to its implementations The book is divided into three parts The first part focuses on the min plus framework and its algorithmic aspects The second part defines the network calculus model and analyzes one server in isolation Different service and scheduling policies are discussed particularly when data is packetized The third part is about network analyses Pay burst only once and pay multiplexing only once phenomena are exhibited and different analyses are proposed and compared This includes the linear programming approaches that compute tight performance bounds Finally some partial results on the stability are detailed   *Real-Time Embedded Systems* Christos Koulamas,Mihai T. Lazarescu,2019-01-10 This book is a printed edition of the Special Issue Real Time Embedded Systems that was published in Electronics   Scientific and Technical Aerospace Reports ,1994   **Transdisciplinary Engineering for Resilience: Responding to System Disruptions** L. Newnes,S. Lattanzio,B.R. Moser,2021-11-17 No one discipline or person can encompass all the knowledge necessary to solve complex ill defined problems or problems for which a solution is not immediately obvious The concept of Concurrent Engineering CE interdisciplinary but with an engineering focus was developed to increase the efficiency and effectiveness of the Product Creation Process PCP by conducting different phases of a product s life concurrently Transdisciplinary Engineering has transcended CE emphasizing the crucial importance of interdisciplinary openness and collaboration This book presents the proceedings of the 28th ISTE International Conference on Transdisciplinary Engineering TE2021 Held online from 5 9 July 2021 and entitled Transdisciplinary Engineering for Resilience Responding to System Disruptions this is the second conference in the series held virtually due to the COVID 19 pandemic The annual TE conference constitutes an important forum for international scientific exchange on transdisciplinary engineering research advances and applications and is attended by researchers industry experts and students as well as government representatives The book contains 58 peer reviewed papers selected from more than 80 submissions and ranging from the theoretical and conceptual to strongly pragmatic and addressing industrial best practice The papers are

grouped under 6 headings covering theory education and training PD methods and digital TE industry and society product systems and individuals and teams Providing an overview of the latest research results and knowledge of product creation processes and related methodologies the book will be of interest to all researchers design practitioners and educators working in the field of Transdisciplinary Engineering **CAD of Circuits and Integrated Systems** Ali Mahdoum,2020-07-16 This book addresses the difficulty of obtaining a quality solution that is pre optimal or even optimal in a reasonable time from a central processing unit CPU As polynomial problems can be treated by exact methods the problem posed concerns non polynomial problems for which it is necessary to develop efficient algorithms based on heuristics or meta heuristics Chapter 3 of this book demonstrates how to develop such algorithms which are characterized by an initialization of argued solutions sometimes the global optimum can be obtained from such an initialization a non random generation of solutions to avoid generating the same solution several times or even generating solutions that cannot be achieved avoidance of being trapped by a local optimum good use of CPU time by reducing the size of the space of solutions to be explored which is often very large for such problems without compromising the quality of the solution plus a reasoned displacement from one solution to another to improve the quality of the solution as the processing is carried out These aspects are applied to concrete applications in the design of integrated circuits and systems at various levels To do this and to help the reader better understand this problem Chapters 1 and 2 present basic notions on computational complexity and the design of integrated circuits and systems <u>Computer Aided Verification</u> Natasha Sharygina,Helmut Veith,2013-07-11 This book constitutes the thoroughly refereed proceedings of the 25th International Conference on Computer Aided Verification CAV 2013 held in St Petersburg Russia in July 2013 The 54 regular and 16 tool papers presented were carefully selected from 209 submissions The papers are organized in topical sections on biology concurrency hardware hybrid systems interpolation loops and termination new domains probability and statistics SAT and SMZ security shape analysis synthesis and time

Transdisciplinary Engineering for Complex Socio-technical Systems K. Hiekata,B. Moser,M. Inoue,2019-11-12 Industry and society are complex socio technical systems and both face problems that can only be solved by collaboration between different disciplines Collaboration between academia and practice is also needed to develop viable solutions Many engineering problems also require such an approach which is known as Transdisciplinary Engineering TE This book presents the proceedings of the 26th ISTE International Conference on Transdisciplinary Engineering held in Tokyo Japan from 30 July 1 August 2019 The title of the conference was Transdisciplinary Engineering for Complex Socio technical Systems and of the 86 submitted papers 68 peer reviewed papers by authors from 17 countries were delivered at the conference These papers range from theoretical and conceptual to strongly pragmatic They address industrial best practice and are grouped here under 10 themes advanced robotics for smart manufacturing design of personalized products and services engineering methods for industry 4 0 additive and subtractive manufacturing decision supporting tools and methods complex systems

engineering big data analytics in manufacturing and services concurrent engineering cost modeling and digital manufacturing modeling and simulation Presenting the latest research results and knowledge of product creation processes and related methodologies the book will be of interest to researchers design practitioners and educators alike **Modeling Business Processes** Wil Van Der Aalst, M.P.,Christian Stahl,2011-05-27 An introduction to the modeling of business information systems with processes formally modeled using Petri nets This comprehensive introduction to modeling business information systems focuses on business processes It describes and demonstrates the formal modeling of processes in terms of Petri nets using a well established theory for capturing and analyzing models with concurrency The precise semantics of this formal method offers a distinct advantage for modeling processes over the industrial modeling languages found in other books on the subject Moreover the simplicity and expressiveness of the Petri nets concept make it an ideal language for explaining foundational concepts and constructing exercises After an overview of business information systems the book introduces the modeling of processes in terms of classical Petri nets This is then extended with data time and hierarchy to model all aspects of a process Finally the book explores analysis of Petri net models to detect design flaws and errors in the design process The text accessible to a broad audience of professionals and students keeps technicalities to a minimum and offers numerous examples to illustrate the concepts covered Exercises at different levels of difficulty make the book ideal for independent study or classroom use Intelligence in Energy Gülgün Kayakutlu,Eunika Mercier-Laurent,2017-02-15 In a world of increasing population this book explores the ways in which technological progress can provide smart energy management strategies to maximize resources Energy is essential to the survival and development of mankind Increased pressure on existing resources now requires wiser energy management in addition to the discovery of new resources Challenges such as the global trend of cheaper exponentially increasing demand in new geographies and current climate change policies now call for new approaches and ways of thinking about energy use which consider the impact on all involved actors and on nature Energy generation and management can be made more efficient by making use of technological progress and sharing global experience in the smart use of this resource This book presents a knowledge based review of the past present and future of energy usage with mathematical modeling economic technological and environmental perspectives The ideas and experiences shared here propose wiser energy management as a system component of natural ecosystems Explores the evolution of intelligence methods used in the energy field with a knowledge based approach Reviews the history of methodologies used with ontologies and knowledge maps of examples Presents case studies showing both the techniques and achievements of modern methodologies Describes regional approaches in search of alternative energy resources aimed at reducing the use of fossil energy and enhancing the use of renewable energy *Quality of Experience Paradigm in Multimedia Services* Muhammad Sajid Mushtaq,Abdelhamid Mellouk,2017-11-20 The analysis of QoE is not an easy task especially for multimedia services because all the factors technical and non technical that directly or indirectly influence the

user perceived quality have to be considered This book describes different methods to investigate users QoE from the viewpoint of technical and non technical parameters using multimedia services It discusses the subjective methods for both controlled and uncontrolled environments Collected datasets are used to analyze users profiles which sheds light on key factors to help network service providers understand end users behavior and expectations Important adaptive video streaming technologies are discussed that run on unmanaged networks to achieve certain QoS features The authors present a scheduling method to allocate resources to the end user based on users QoE and optimizes the power efficiency of users device for LTE A Lastly two key aspects of 5G networks are presented QoE using multimedia services VoIP and video and power saving model for mobile device and virtual base station Features two proven methods to collect datasets for assessing the user s QoE Investigates client based HTTP rate adaptive video streaming algorithms over TCP protocol to regulate the user s QoE Discusses VoIP service and focuses on a QoE driven downlink scheduling method for LTE A technology Introduces the concept of quality of experience presenting all parameters which directly or indirectly influence the user s satisfaction within two well used Internet services multimedia OTT streaming and Voice over IP   *Flight Formation Control* Josep M. Guerrero,Rogelio Lozano,2012-12-17 In the last decade the development and control of Unmanned Aerial Vehicles UAVs has attracted a lot of interest Both researchers and companies have a growing interest in improving this type of vehicle given their many civilian and military applications This book presents the state of the art in the area of UAV Flight Formation The coordination and robust consensus approaches are presented in detail as well as formation flight control strategies which are validated in experimental platforms It aims at helping students and academics alike to better understand what coordination and flight formation control can make possible Several novel methods are presented controllability and observability of multi agent systems robust consensus flight formation control stability of formations over noisy networks which generate solutions of guaranteed performance for UAV Flight Formation Contents 1 Introduction J A Guerrero 2 Theoretical Preliminaries J A Guerrero 3 Multiagent Coordination Strategies J A Guerrero R Lozano M W Spong N Chopra 4 Robust Control Design for Multiagent Systems with Parametric Uncertainty J A Guerrero G Romero 5 On Adaptive and Robust Controlled Synchronization of Networked Robotic Systems on Strongly Connected Graphs Y C Liu N Chopra 6 Modeling and Control of Mini UAV G Flores Colunga J A Guerrero J Escare o R Lozano 7 Flight Formation Control Strategies for Mini UAVs J A Guerrero 8 Formation Based on Potential Functions L Garc a A Dzul 9 Quadrotor Vision Based Control J E Gomez Balderas J A Guerrero S SALAZAR R Lozano P Castillo 10 Toward Vision Based Coordination of Quadrotor Platoons L R Garc a Carrillo J A Guerrero R Lozano 11 Optimal Guidance for Rotorcraft Platoon Formation Flying in Wind Fields J A Guerrero Y Bestaoui R Lozano 12 Impact of Wireless Medium Access Protocol on the Quadrotor Formation Control J A Guerrero Y Challal P Castillo 13 MAC Protocol for Wireless Communications A Mendez M Panduro O Elizarraras D Covarrubias 14 Optimization of a Scannable Pattern for Bidimensional Antenna Arrays to Provide Maximum Performance A Reyna M A Panduro A Mendez

Modelling and Performance Analysis of Cyclic Systems Wojciech Bożejko,Grzegorz Bocewicz,2019-08-16 Striking a balance between state of the art research and practical applications this book provides a forum for contributions that cover the main research challenges in the cyclic modeling development and validation of concurrently acting distributed production systems systems that employ multi assortment production in large quantities are characterized by gradual changes in their product mix and exclusively manufacture products in a cyclic manner Similar issues also arise in computer systems e g embedded systems Cyclic optimization problems that occur in them are unique and under researched but are attracting new interest primarily due to their great practical importance and the difficulty involved in obtaining efficient algorithms for solving specific cases with real constraints arising from manufacturing practice Addressing these and other topics the book will be of great interest to researchers in computer science operations management and production control as well as practicing managers and engineers **Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems** Nicolas Beldiceanu,Narendra Jussien,Eric Pinson,2012-05-15 This book constitutes the refereed proceedings of the 9th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems CPAIOR 2012 held in Nantes France in May June 2012 The 26 revised full papers presented were carefully reviewed and selected from 64 submissions The papers are focused on both theoretical and practical application oriented issues in combinatorial optimization and feature current research with a special focus on inference and relaxation methods integration methods modeling methods innovative applications of CP AI OR techniques and implementation of CP AI OR techniques and optimization systems *Combinatorial Optimization and Applications* Weili Wu,Zhongnan Zhang,2020-12-04 This volume constitutes the proceedings of the 14th International Conference on Combinatorial Optimization and Applications COCOA 2020 held in Dallas TX USA in December 2020 The 55 full papers presented in this volume were carefully reviewed and selected from 104 submissions The papers are grouped into the following topics Approximation Algorithms Scheduling Network Optimization Complexity and Logic Search Facility and Graphs Geometric Problem Sensors Vehicles and Graphs and Graph Problems Due to the Corona pandemic this event was held virtually

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