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KEY=I2015 - LIZETH KANE

ARCHITECTURE AND ENGINEERING

THE CHALLENGES - TRENDS - ACHIEVEMENTS

MDPI The book is addressed to architects and civil engineers. Design and research are areas connecting their activities. The contents of the book confirm the fact that the interface between architecture and engineering is multidimensional. The ways of finding points of contact between the two industries are highlighted. This is favored by the dynamically changing reality, supported by new design paradigms and new research techniques. The multithreaded subject matter of the articles is reduced to six sections: Research Scopes, Methods, Design Aspects, Context, Nature of Research, and Economy and Cost Calculation. Each of the articles in these six blocks has its weight. And so, in the Nature of Research section, the following areas have been underscored: laboratory tests, in situ research, field investigations, and street perception experiments. The section Design Aspects includes design-oriented thinking, geometrical forms, location of buildings, cost prediction, attractor and distractor elements, and shaping spatial structures. The new design and research tools are an inspiration and a keystone bonding architects and engineers.

TOOLS FOR HIGH PERFORMANCE COMPUTING 2015

PROCEEDINGS OF THE 9TH INTERNATIONAL WORKSHOP ON PARALLEL TOOLS FOR HIGH PERFORMANCE COMPUTING, SEPTEMBER 2015, DRESDEN, GERMANY

Springer High Performance Computing (HPC) remains a driver that offers huge potentials and benefits for science and society. However, a profound understanding of the computational matters and specialized software is needed to arrive at effective and efficient simulations. Dedicated software tools are important parts of the HPC software landscape, and support application developers. Even though a tool is by definition not a part of an application, but rather a supplemental piece of software, it can make a fundamental difference during the development of an application. Such tools aid application developers in the context of debugging, performance analysis, and code optimization, and therefore make a major contribution to the development of robust and efficient parallel software. This book introduces a selection of the tools presented and discussed at the 9th International Parallel Tools Workshop held in Dresden, Germany, September 2-3, 2015, which offered an established forum for discussing the latest advances in parallel tools.

COMMUNICATING PROCESS ARCHITECTURES 2015 & 2016

WOTUG-37 & WOTUG-38

IOS Press This book presents the proceedings of two conferences, the 37th and 38th in the WoTUG series; Communicating Process Architectures (CPA) 2015, held in Canterbury, England, in August 2015, and CPA 2016, held in Copenhagen, Denmark, in August 2016. Fifteen papers were accepted for presentation at the 2015 conference. They cover a spectrum of concurrency concerns: mathematical theory, programming languages, design and support tools, verification, multicore infrastructure and applications ranging from supercomputing to embedded. Three workshops and two evening fringe sessions also formed part of the conference, and the workshop position papers and fringe abstracts are included in this book. Fourteen papers covering the same broad spectrum of topics were presented at the 2016 conference, one of them in the form of a workshop. They are all included here, together with abstracts of the five fringe sessions from the conference.

AACC 2015 ABSTRACTS EBOOK

Coe-Truman International, LLC This eBook is a collection of poster abstracts presented at the AACC 2015 Annual Meeting. As the leading event for laboratory medicine worldwide, the AACC Annual Meeting & Clinical Lab Expo is the place where breakthrough innovations in clinical testing and patient care are introduced to the healthcare world.

SOFTWARE ARCHITECTURE

9TH EUROPEAN CONFERENCE, ECSA 2015, DUBROVNIK/CAVTAT, CROATIA, SEPTEMBER 7-11, 2015. PROCEEDINGS

Springer This book constitutes the proceedings of the 9th European Conference on Software Architecture, ECSA 2015, held in Cavtat, Croatia in September 2015. The 12 full papers and 15 short papers presented together with three education and training papers in this volume were carefully reviewed and selected from 100 submissions. They are organized in topical sections named: adaptation; design approaches; decisions and social aspects; education and training; cloud and green; agile and smart systems; analysis and automation; services and ecosystems.

SCALABLE BIG DATA ARCHITECTURE

A PRACTITIONERS GUIDE TO CHOOSING RELEVANT BIG DATA ARCHITECTURE

Apress This book highlights the different types of data architecture and illustrates the many possibilities hidden behind the term "Big Data", from the usage of No-SQL databases to the deployment of stream analytics architecture, machine learning, and governance. Scalable Big Data Architecture covers real-world, concrete industry use cases that leverage complex distributed applications , which involve web applications, RESTful API, and high throughput of large amount of data stored in highly scalable No-SQL data stores such as Couchbase and Elasticsearch. This book demonstrates how data processing can be done at scale from the usage of NoSQL datastores to the combination of Big Data distribution. When the data processing is too complex and involves different processing topology like long running jobs, stream processing, multiple data sources correlation, and machine learning, it's often necessary to delegate the load to Hadoop or Spark and use the No-SQL to serve processed data in real time. This book shows you how to choose a relevant combination of big data technologies available within the Hadoop ecosystem. It focuses on processing long jobs, architecture, stream data patterns, log analysis, and real time analytics. Every pattern is illustrated with practical examples, which use the different open sourceprojects such as Logstash, Spark, Kafka, and so on. Traditional data infrastructures are built for digesting and rendering data synthesis and analytics from large amount of data. This book helps you to understand why you should consider using machine learning algorithms early on in the project, before being overwhelmed by constraints imposed by dealing with the high throughput of Big data. Scalable Big Data Architecture is for developers, data architects, and data scientists looking for a better understanding of how to choose the most relevant pattern for a Big Data project and which tools to integrate into that pattern.

ADVANCED METHODOLOGIES AND TECHNOLOGIES IN NETWORK ARCHITECTURE, MOBILE COMPUTING, AND DATA ANALYTICS

IGI Global From cloud computing to data analytics, society stores vast supplies of information through wireless networks and mobile computing. As organizations are becoming increasingly more wireless, ensuring the security and seamless function of electronic gadgets while creating a strong network is

imperative. Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society. Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data. This book is an important resource for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, and IT specialists seeking modern information on emerging methods in data mining, information technology, and wireless networks.

INFORMATION SYSTEMS ARCHITECTURE AND TECHNOLOGY: PROCEEDINGS OF 39TH INTERNATIONAL CONFERENCE ON INFORMATION SYSTEMS ARCHITECTURE AND TECHNOLOGY – ISAT 2018

PART I

Springer This three-volume set of books highlights major advances in the development of concepts and techniques in the area of new technologies and architectures of contemporary information systems. Further, it helps readers solve specific research and analytical problems and glean useful knowledge and business value from the data. Each chapter provides an analysis of a specific technical problem, followed by a numerical analysis, simulation and implementation of the solution to the real-life problem. Managing an organisation, especially in today's rapidly changing circumstances, is a very complex process. Increased competition in the marketplace, especially as a result of the massive and successful entry of foreign businesses into domestic markets, changes in consumer behaviour, and broader access to new technologies and information, calls for organisational restructuring and the introduction and modification of management methods using the latest advances in science. This situation has prompted many decision-making bodies to introduce computer modelling of organisation management systems. The three books present the peer-reviewed proceedings of the 39th International Conference "Information Systems Architecture and Technology" (ISAT), held on September 16–18, 2018 in Nysa, Poland. The conference was organised by the Computer Science and Management Systems Departments, Faculty of Computer Science and Management, Wroclaw University of Technology and Sciences and University of Applied Sciences in Nysa, Poland. The papers have been grouped into three major parts: Part I—discusses topics including but not limited to Artificial Intelligence Methods, Knowledge Discovery and Data Mining, Big Data, Knowledge Based Management, Internet of Things, Cloud Computing and High Performance Computing, Distributed Computer Systems, Content Delivery Networks, and Service Oriented Computing. Part II—addresses topics including but not limited to System Modelling for Control, Recognition and Decision Support, Mathematical Modelling in Computer System Design, Service Oriented Systems and Cloud Computing, and Complex Process Modelling. Part III—focuses on topics including but not limited to Knowledge Based Management, Modelling of Financial and Investment Decisions, Modelling of Managerial Decisions, Production Systems Management and Maintenance, Risk Management, Small Business Management, and Theories and Models of Innovation.

COMPUTER-AIDED ARCHITECTURAL DESIGN: THE NEXT CITY – NEW TECHNOLOGIES AND THE FUTURE OF THE BUILT ENVIRONMENT

16TH INTERNATIONAL CONFERENCE, CAAD FUTURES 2015, SÃO PAULO, BRAZIL, JULY 8-10, 2015. SELECTED PAPERS

Springer This book constitutes the refereed proceedings of the 16th International Conference on Computer-Aided Architectural Design Futures, CAAD Futures 2015, held in São Paulo, Brazil, in July 2015. The 33 revised full papers presented were carefully reviewed and selected from 200 submissions. The papers are organized in topical sections on modeling, analyzing and simulating the city; sustainability and performance of the built space; automated and parametric design; building information modelling (BIM); fabrication and materiality; shape studies.

SEISMIC RETROFITTING: LEARNING FROM VERNACULAR ARCHITECTURE

CRC Press Local communities have adapted for centuries to challenging surroundings, resulting from unforeseen natural hazards. Vernacular architecture often reveals very intelligent responses attuned to the environment. Therefore, the question that emerged was: how did local populations prepare their dwellings to face frequent earthquakes? It was to respond to this gap in knowledge, that the SEISMIC-V research project was instigated, and this interdisciplinary international publication was prepared. The research revealed the existence of a local seismic culture, in terms of reactive or preventive seismic resistant measures, able to survive, if properly maintained, in areas with frequent earthquakes. The fundamental contribution and aims of the publication were to enhance: -The disciplinary interest in vernacular architecture; -Its contribution to risk mitigation in responding to natural hazards; -To encourage academic and scientific research collaboration among different disciplines; -To contribute to the improvement of vernacular dwellings, which half of the world's population still inhabits nowadays. Fifty international researchers and experts presented case studies from Latin America, the Mediterranean, Eastern and Central Asia and the Himalayas region, with reference to 20 countries, i.e. Algeria, Bolivia, Bhutan, Chile, China, Egypt, El Salvador, Greece, Haiti, Italy, Japan, Mexico, Morocco, Nepal, Nicaragua, Peru, Romania, Taiwan, Turkey and a closer detailed analysis of Portugal. This publication brings together 43 contributions, with new perspectives on seismic retrofitting techniques and relevant data, addressing vernacular architecture; an amazing source of knowledge, and to this day, home to 4 billion people.

EMERGING TECHNOLOGY AND ARCHITECTURE FOR BIG-DATA ANALYTICS

Springer This book describes the current state of the art in big-data analytics, from a technology and hardware architecture perspective. The presentation is designed to be accessible to a broad audience, with general knowledge of hardware design and some interest in big-data analytics. Coverage includes emerging technology and devices for data-analytics, circuit design for data-analytics, and architecture and algorithms to support data-analytics. Readers will benefit from the realistic context used by the authors, which demonstrates what works, what doesn't work, and what are the fundamental problems, solutions, upcoming challenges and opportunities. Provides a single-source reference to hardware architectures for big-data analytics; Covers various levels of big-data analytics hardware design abstraction and flow, from device, to circuits and systems; Demonstrates how non-volatile memory (NVM) based hardware platforms can be a viable solution to existing challenges in hardware architecture for big-data analytics.

MULTI-DISCIPLINARY TRENDS IN ARTIFICIAL INTELLIGENCE

9TH INTERNATIONAL WORKSHOP, MIWAI 2015, FUZHOU, CHINA, NOVEMBER 13-15, 2015, PROCEEDINGS

Springer This book constitutes the refereed conference proceedings of the 9th International Conference on Multi-disciplinary Trends in Artificial Intelligence, MIWAI 2015, held in Fuzhou, China, in November 2015. The 30 revised full papers presented together with 12 short papers were carefully reviewed and selected from 83 submissions. The papers feature a wide range of topics covering knowledge representation, reasoning, and management; multi-agent systems; data mining and machine learning; computer vision; robotics; AI in bioinformatics; AI in security and networks; and other AI applications.

SOFTWARE ARCHITECTURE

11TH EUROPEAN CONFERENCE, ECSA 2017, CANTERBURY, UK, SEPTEMBER 11-15, 2017, PROCEEDINGS

Springer This book constitutes the proceedings of the 11th European Conference on Software Architecture, ECSA 2017, held in Canterbury, UK, in September 2017. The 9 full papers presented together with 12 short papers and one keynote talk were carefully reviewed and selected from 54 submissions. They are organized in topical sections on Software Architecture Analysis and Verification; Software Architecture Evolution; Automatic Generation; Architectural Decisions; Software Architecture Practice.

SEISMIC ASSESSMENT, BEHAVIOR AND RETROFIT OF HERITAGE BUILDINGS AND MONUMENTS

Springer This book assembles, identifies and highlights the most recent developments in Rehabilitation and retrofitting of historical and heritage structures. This is an issue of paramount importance in countries with great built cultural heritage that also suffer from high seismicity, such as the countries of the eastern Mediterranean basin. Heritage structures range from traditional residential constructions to monumental structures, ancient temples, towers, castles, etc. It is generally recognized that these structures present particular difficulties in seismic response calculation through computer simulation due to the complexity of the structural system which is, generally, inhomogeneous, with several contact problems, gaps/joints, nonlinearities and brittleness in material constituents. This book contains selected papers from the ECCOMAS Thematic Conferences on Computational Methods in Structural Dynamics & Earthquake Engineering (COMPDYN) that were held in Corfu, Greece in 2011 and Kos, Greece in 2013. The Conferences brought together the scientific communities of Computational Mechanics, Structural Dynamics and Earthquake Engineering in an effort to facilitate the exchange of ideas in topics of mutual interest and to serve as a platform for establishing links between research groups with complementary activities.

INTERNET OF THINGS. IOT INFRASTRUCTURES

SECOND INTERNATIONAL SUMMIT, IOT 360° 2015, ROME, ITALY, OCTOBER 27-29, 2015, REVISED SELECTED PAPERS, PART II

Springer The two-volume set LNICST 169 and 170 constitutes the thoroughly refereed post-conference proceedings of the Second International Internet of Things Summit, IoT 360° 2015, held in Rome, Italy, in October 2015. The IoT 360° is an event bringing a 360 degree perspective on IoT-related projects in important sectors such as mobility, security, healthcare and urban spaces. The conference also aims to coach involved people on the whole path between research to innovation and the way through to commercialization in the IoT domain. This volume contains 61 revised full papers at the following four conferences: International Conference on IoT as a Service, IoTaaS, International Conference on Mobility in IoT, Mobility IoT, International Conference on Sensor Systems and Software, S-Cube, International Conference on Interoperability in IoT, InterioT, International Conference on Software Defined and Virtual Future Wireless Networks, SDWNCT.

CYBERSECURITY IN SMART HOMES

ARCHITECTURES, SOLUTIONS AND TECHNOLOGIES

John Wiley & Sons Smart homes use Internet-connected devices, artificial intelligence, protocols and numerous technologies to enable people to remotely monitor their home, as well as manage various systems within it via the Internet using a smartphone or a computer. A smart home is programmed to act autonomously to improve comfort levels, save energy and potentially ensure safety; the result is a better way of life. Innovative solutions continue to be developed by researchers and engineers and thus smart home technologies are constantly evolving. By the same token, cybercrime is also becoming more prevalent. Indeed, a smart home system is made up of connected devices that cybercriminals can infiltrate to access private information, commit cyber vandalism or infect devices using botnets. This book addresses cyber attacks such as sniffing, port scanning, address spoofing, session hijacking, ransomware and denial of service. It presents, analyzes and discusses the various aspects of cybersecurity as well as solutions proposed by the research community to counter the risks. Cybersecurity in Smart Homes is intended for people who wish to understand the architectures, protocols and different technologies used in smart homes.

INDUSTRIAL NETWORKS AND INTELLIGENT SYSTEMS

7TH EAI INTERNATIONAL CONFERENCE, INISCOM 2021, HANOI, VIETNAM, APRIL 22-23, 2021, PROCEEDINGS

Springer Nature This book constitutes the refereed proceedings of the 7th EAI International Conference on Industrial Networks and Intelligent Systems, INISCOM 2021, held in Hanoi, Vietnam, in April 2021. The 39 full papers were selected from XX submissions and are organized thematically in tracks on telecommunications systems and networks; hardware, software and application designs; information processing and data analysis; industrial networks and intelligent systems; security and privacy.

FM 2015: FORMAL METHODS

20TH INTERNATIONAL SYMPOSIUM, OSLO, NORWAY, JUNE 24-26, 2015, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 20th International Symposium on Formal Methods, FM 2015, held in Oslo, Norway, in June 2015. The 30 full papers and 2 short papers presented were carefully reviewed and selected from 124 submissions. The papers cover a wide spectrum of all the different aspects of the use of and the research on formal methods for software development.

COMPUTATIONAL SCIENCE AND ITS APPLICATIONS -- ICCSA 2015

15TH INTERNATIONAL CONFERENCE, BANFF, AB, CANADA, JUNE 22-25, 2015, PROCEEDINGS, PART IV

Springer The five-volume set LNCS 9155-9159 constitutes the refereed proceedings of the 15th International Conference on Computational Science and Its Applications, ICCSA 2015, held in Banff, AB, Canada, in June 2015. The 232 revised full papers presented in 22 workshops and a general track were carefully reviewed and selected from 780 initial submissions for inclusion in this volume. They cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security.

ECSM2015-PROCEEDINGS OF THE 2ND EUROPEAN CONFERENCE ON SOCIAL MEDIA 2015

ECSM 2015

Academic Conferences Limited Complete proceedings of the 2nd European Conference on Social Media Porto Portugal Published by Academic Conferences and Publishing International Limited

SYMPOSIUM PROCEEDINGS - XVI INTERNATIONAL SYMPOSIUM SYMORG 2018

"DOING BUSINESS IN THE DIGITAL AGE: CHALLENGES, APPROACHES AND SOLUTIONS"

University of Belgrade, Faculty of Organizational Sciences

INTELLIGENCE AND SAFETY FOR HUMANOID ROBOTS: DESIGN, CONTROL, AND APPLICATIONS

Frontiers Media SA

BUSINESS PROCESS MANAGEMENT DESIGN GUIDE: USING IBM BUSINESS PROCESS MANAGER

IBM Redbooks IBM® Business Process Manager (IBM BPM) is a comprehensive business process management (BPM) suite that provides visibility and management of your business processes. IBM BPM supports the whole BPM lifecycle approach: Discover and document Plan Implement Deploy Manage Optimize Process owners and business owners can use this solution to engage directly in the improvement of their business processes. IBM BPM excels in integrating role-based process design, and provides a social BPM experience. It enables asset sharing and creating versions through its Process Center. The Process Center acts as a unified repository, making it possible to manage changes to the business processes with confidence. IBM BPM supports a wide range of standards for process modeling and exchange. Built-in analytics and search capabilities help to further improve and optimize the business processes. This IBM Redbooks® publication provides valuable information for project teams and business people that are involved in projects using IBM BPM. It describes the important design decisions that you face as a team. These decisions invariably have an effect on the success of your project. These decisions range from the more business-centric decisions, such as which should be your first process, to the more technical decisions, such as solution analysis and architectural considerations.

71ST AACC ANNUAL SCIENTIFIC MEETING & CLINICAL LAB EXPO

CTI Meeting Technology The poster abstracts accepted for the 71st AACC Annual Scientific Meeting & Clinical Lab Expo. AACC is a global scientific and medical professional organization dedicated to clinical laboratory science and its application to healthcare. Our leadership in education, advocacy and

collaboration helps lab professionals adapt to change and do what they do best: provide vital insight and guidance so patients get the care they need.

10TH INTERNATIONAL CONFERENCE ON SOFT COMPUTING MODELS IN INDUSTRIAL AND ENVIRONMENTAL APPLICATIONS

Springer This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at the 10th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2015), held in the beautiful and historic city of Burgos (Spain), in June 2015. Soft computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate, simulate and analyze very complex issues and phenomena. This Conference is mainly focused on its industrial and environmental applications. After a through peer-review process, the SOCO 2015 International Program Committee selected 41 papers, written by authors from 15 different countries. These papers are published in present conference proceedings, achieving an acceptance rate of 40%. The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the International Program Committees for their hard work during the review process. This is a crucial issue for creation of a high standard conference and the SOCO conference would not exist without their help.

PROGRAMMING LANGUAGES AND SYSTEMS

14TH ASIAN SYMPOSIUM, APLAS 2016, HANOI, VIETNAM, NOVEMBER 21 - 23, 2016, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 14th Asian Symposium on Programming Languages and Systems, APLAS 2016, held in Hanoi, Vietnam, in November 2016. The papers cover a variety of topics such as semantics, logics, and foundational theory; design of languages type systems, and foundational calculi; domain-specific languages; compilers, interpreters, and abstract machines; program derivation, synthesis and transformation; program analysis, verification, and model-checking; logic, constraint, probabilistic and quantum programming; software security; concurrency and parallelism; tools for programming and implementation.

MOBILE NETWORKS AND MANAGEMENT

6TH INTERNATIONAL CONFERENCE, MONAMI 2014, WÜRZBURG, GERMANY, SEPTEMBER 22-26, 2014, REVISED SELECTED PAPERS

Springer This book constitutes the post-proceedings of the 6th International ICST Conference on Mobile Networks and Management, MONAMI 2014, held in Würzburg, Germany, in September 2014. The 22 revised full papers presented were carefully reviewed and selected from 30 submissions. In addition, MONAMI 2014 hosted a workshop on enhanced living environments which also featured 10 papers. The volume is organized thematically in six parts, covering: LTE networks, virtualization and software defined networking, self-organizing networks, energy awareness in wireless networks, wireless networks algorithms and techniques and applications and context-awareness. The workshop on enhanced living environments is organized in thematic sessions on ambient assisted living architectures, human interaction technologies, devises and mobile cloud.

OMICS TECHNOLOGIES FOR SUSTAINABLE AGRICULTURE AND GLOBAL FOOD SECURITY (VOL II)

Springer Nature This edited book brings out a comprehensive collection of information on the modern omics-based research. The main focus of this book is to educate researchers about utility of omics-based technologies in rapid crop improvement. In last two decades, omics technologies have been utilized significantly in the area of plant sciences and has shown promising results. Omics technology has potential to address the challenge of food security in the near future. The comprehensive use of omics technology occurred in last two decades and helped greatly in the understanding of complex biological problems, improve crop productivity and ensure sustainable use of ecosystem services. This book is of interest to researchers and students of life sciences, biotechnology, plant biotechnology, agriculture, forestry, and environmental sciences. It is also a useful knowledge resource for national and international agricultural scientists.

TOOLS FOR HIGH PERFORMANCE COMPUTING 2016

PROCEEDINGS OF THE 10TH INTERNATIONAL WORKSHOP ON PARALLEL TOOLS FOR HIGH PERFORMANCE COMPUTING, OCTOBER 2016, STUTTGART, GERMANY

Springer This book presents the proceedings of the 10th International Parallel Tools Workshop, held October 4-5, 2016 in Stuttgart, Germany – a forum to discuss the latest advances in parallel tools. High-performance computing plays an increasingly important role for numerical simulation and modelling in academic and industrial research. At the same time, using large-scale parallel systems efficiently is becoming more difficult. A number of tools addressing parallel program development and analysis have emerged from the high-performance computing community over the last decade, and what may have started as collection of small helper script has now matured to production-grade frameworks. Powerful user interfaces and an extensive body of documentation allow easy usage by non-specialists.

VLSI ARCHITECTURE FOR SIGNAL, SPEECH, AND IMAGE PROCESSING

CRC Press This new volume introduces various VLSI (very-large-scale integration) architecture for DSP filters, speech filters, and image filters, detailing their key applications and discussing different aspects and technologies used in VLSI design, models and architectures, and more. The volume explores the major challenges with the aim to develop real-time hardware architecture designs that are compact and accurate. It provides useful research in the field of computer arithmetic and can be applied for various arithmetic circuits, for their digital implementation schemes, and for performance considerations.

TOOLS AND ALGORITHMS FOR THE CONSTRUCTION AND ANALYSIS OF SYSTEMS

21ST INTERNATIONAL CONFERENCE, TACAS 2015, HELD AS PART OF THE EUROPEAN JOINT CONFERENCES ON THEORY AND PRACTICE OF SOFTWARE, ETAPS 2015, LONDON, UK, APRIL 11-18, 2015, PROCEEDINGS

Springer This book constitutes the proceedings of the 21st International Conference on Tools and Algorithms for the Construction and Analysis of Systems, TACAS 2015, which took place in London, UK, in April 2015, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2015. The 45 papers included in this volume, consisting of 27 research papers, 2 case-study papers, 7 regular tool papers and 9 tool demonstration papers, were carefully reviewed and selected from 164 submissions. In addition, the book contains one invited contribution. The papers have been organized in topical sections on hybrid systems; program analysis; verification and abstraction; tool demonstrations; stochastic models; SAT and SMT; partial order reduction, bisimulation, and fairness; competition on software verification; parameter synthesis; program synthesis; program and runtime verification; temporal logic and automata and model checking.

WILEY CIAEXCEL EXAM REVIEW 2015 FOCUS NOTES, PART 3

INTERNAL AUDIT KNOWLEDGE ELEMENTS

John Wiley & Sons Brief, efficient, effective review for the CIA exam Part 3 Wiley CIAexcel Exam Review 2015 Focus Notes, Part 3 provides a concise distillation of the vast amount of material covered on Part 3 of the CIA exam. With an overall focus on Internal Audit Knowledge Elements, this book gives you a simple, complete breakdown of the essential information you need to know. The information is presented in a clear, easy-to-read style, and organized for easy navigation so you can study anytime, anywhere. Polish up your skills and top off your understanding as you quickly run through the key points tested on the exam, and discover any areas that may be in need of further review. Learn where you're strong and where you're weak, so you can target your study time efficiently to give yourself the very best chance of passing the first time around. The Certified Internal Auditor exam is intended to measure the knowledge, skills, and competencies required in the field. As such, it covers a tremendous amount of material and demands a high level of commitment. This study guide helps you organize your thoughts, understand your level of knowledge, and get to where you need to be for exam day. Review a concise breakdown of Part 3 of the CIA exam Master the key knowledge, skills, and abilities Test your understanding to uncover your weak points Gain a comprehensive understanding of the internal auditing profession The CIA exam tests your awareness, understanding, and proficiency of the myriad concepts, tasks, practices, and duties an internal auditor must master. The Wiley CIAexcel Exam Review 2015 Focus Notes, Part 3 is an invaluable companion for the savvy CIA exam candidate.

STRUCTURAL ANALYSIS OF HISTORICAL CONSTRUCTIONS: ANAMNESIS, DIAGNOSIS, THERAPY, CONTROLS

PROCEEDINGS OF THE 10TH INTERNATIONAL CONFERENCE ON STRUCTURAL ANALYSIS OF HISTORICAL CONSTRUCTIONS (SAHC, LEUVEN, BELGIUM, 13-15 SEPTEMBER 2016)

CRC Press Structural Analysis of Historical Constructions. Anamnesis, diagnosis, therapy, controls contains the papers presented at the 10th International Conference on Structural Analysis of Historical Constructions (SAHC2016, Leuven, Belgium, 13-15 September 2016). The main theme of the book is "Anamnesis, Diagnosis, Therapy, Controls", which emphasizes the importance of all steps of a restoration process in order to obtain a thorough understanding of the structural behaviour of built cultural heritage. The contributions cover every aspect of the structural analysis of historical constructions, such as material characterization, structural modelling, static and dynamic monitoring, non-destructive techniques for on-site investigation, seismic behaviour, rehabilitation, traditional and innovative repair techniques, and case studies. A special focus has been put on six specific themes: - Innovation and heritage - Preventive conservation - Computational strategies for heritage structures - Sustainable strengthening of masonry with composites - Values and sustainability, and - Subsoil interaction The knowledge, insights and ideas in Structural Analysis of Historical Constructions. Anamnesis, diagnosis, therapy, controls make this book of abstracts and the corresponding, digital full-colour conference proceedings containing the full papers must-have literature for researchers and practitioners involved in the structural analysis of historical constructions.

QUICK START REFERENCE GUIDE FOR MICROSTRATEGY 9.5

MicroStrategy, Inc. The Quick Start Reference Guide provides an overview of the installation and evaluation process, and additional resources.

SOFTWARE, SERVICES, AND SYSTEMS

ESSAYS DEDICATED TO MARTIN WIRSING ON THE OCCASION OF HIS RETIREMENT FROM THE CHAIR OF PROGRAMMING AND SOFTWARE ENGINEERING

Springer This book is dedicated to Professor Martin Wirsing on the occasion of his emeritation from Ludwig-Maximilians-Universität in Munich, Germany. The volume is a reflection, with gratitude and admiration, on Professor Wirsing's life highly creative, remarkably fruitful and intellectually generous life. It also gives a snapshot of the research ideas that in many cases have been deeply influenced by Professor Wirsing's work. The book consists of six sections. The first section contains personal remembrances and expressions of gratitude from friends of Professor Wirsing. The remaining five sections consist of groups of scientific papers written by colleagues and collaborators of Professor Wirsing, which have been grouped and ordered according to his scientific evolution. More specifically, the papers are concerned with logical and algebraic foundations; algebraic specifications, institutions and rewriting; foundations of software engineering; service oriented systems; and adaptive and autonomic systems.

TIETZ TEXTBOOK OF CLINICAL CHEMISTRY AND MOLECULAR DIAGNOSTICS

Elsevier Health Sciences The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, 6th Edition provides the most current and authoritative guidance on selecting, performing, and evaluating the results of new and established laboratory tests. This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know, including: analytical criteria for the medical usefulness of laboratory tests, variables that affect tests and results, laboratory medicine, applications of statistical methods, and most importantly clinical utility and interpretation of laboratory tests. It is THE definitive reference in clinical chemistry and molecular diagnostics, now fully searchable and with quarterly content updates, podcasts, clinical cases, animations, and extended content online through Expert Consult. Analytical criteria focus on the medical usefulness of laboratory procedures. Reference ranges show new approaches for establishing these ranges — and provide the latest information on this topic. Lab management and costs gives students and chemists the practical information they need to assess costs, allowing them to do their job more efficiently and effectively. Statistical methods coverage provides you with information critical to the practice of clinical chemistry. Internationally recognized chapter authors are considered among the best in their field. Two-color design highlights important features, illustrations, and content to help you find information easier and faster. NEW! Internationally recognized chapter authors are considered among the best in their field. NEW! Expert Consult features fully searchable text, quarterly content updates, clinical case studies, animations, podcasts, atlases, biochemical calculations, multiple-choice questions, links to Medline, an image collection, and audio interviews. You will now enjoy an online version making utility of this book even greater. UPDATED! Expanded Molecular Diagnostics section with 12 chapters that focus on emerging issues and techniques in the rapidly evolving and important field of molecular diagnostics and genetics ensures this text is on the cutting edge and of the most value. NEW! Comprehensive list of Reference Intervals for children and adults with graphic displays developed using contemporary instrumentation. NEW! Standard and international units of measure make this text appropriate for any user — anywhere in the world. NEW! 22 new chapters that focus on applications of mass spectrometry, hematology, transfusion medicine, microbiology, biobanking, biomarker utility in the pharmaceutical industry and more! NEW! Expert senior editors, Nader Rifai, Carl Wittwer and Rita Horvath, bring fresh perspectives and help ensure the most current information is presented. UPDATED! Thoroughly revised and peer-reviewed chapters provide you with the most current information possible.

LIGHT METALS 2015

Springer The Light Metals symposia are a key part of the TMS Annual Meeting & Exhibition, presenting the most recent developments, discoveries, and practices in primary aluminum science and technology. Publishing the proceedings from these important symposia, the Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies. The 2015 collection includes papers from the following symposia: 1.Alumina and Bauxite 2.Aluminum Alloys: Fabrication, Characterization and Applications 3.Aluminum Processing 4.Aluminum Reduction Technology 5.Cast Shop for Aluminum Production 6.Electrode Technology for Aluminum Production 7.Strip Casting of Light Metals

SERVICE-ORIENTED COMPUTING – ICSOC 2015 WORKSHOPS

WESOA, RMSOC, ISC, DISCO, WESE, BSCI, FOR-MOVES, GOA, INDIA, NOVEMBER 16-19, 2015, REVISED SELECTED PAPERS

Springer This book constitutes the revised selected papers of the 13th International Conference on Service-Oriented Computing, ICSOC 2015, held in Goa, India in November 2015. The conference hosted the following seven workshops: 11th International Workshop on Engineering Service-Oriented Applications, WESOA 2015; Second Workshop on Resource Management in Service-Oriented Computing, RMSOC 2015; Workshop on Intelligent Service Clouds, ISC 2015; Second Workshop on Intelligent Service Clouds; First International Workshop on Dependability Issues in Services Computing, DISCO 2015; Workshop on Engineering for Service-oriented Enterprises, WESE 2015; First International Workshop on Big Data Services and Computational Intelligence, BSCI 2015 (joined with ISC 2015); and Second International Workshop on Formal Modeling and Verification of Service-based systems, FOR-MOVES 2015. The 22 full papers included in this volume were carefully reviewed and selected from 45 submissions.

DESIGN, MANUFACTURING AND MECHATRONICS - PROCEEDINGS OF THE 2015 INTERNATIONAL CONFERENCE (ICDMM2015)

World Scientific This book brings together one hundred and seventy nine selected papers presented at the 2015 International Conference on Design, Manufacturing and Mechatronics (ICDMM2015), which was successfully held in Wuhan, China during April 17-18, 2015.The ICDMM2015 covered a wide range of fundamental studies, technical innovations and industrial applications in advanced design and manufacturing technology, automation and control system, communication system and computer network, signal and image processing, data processing and intelligence system, applied material and material processing technology, power and energy, technology and methods for measure, test, detection and monitoring, applied mechatronics, technology and methods for ship navigation and safety, and other engineering topics.All papers selected here were subjected to a rigorous peer-review process by at least two independent peers. The papers were selected based on innovation, organization, and quality of presentation.The proceedings should be a valuable reference for scientists, engineers and researchers interested in design, manufacturing and mechatronics, as well as graduate students working on related technologies.

BUILDING EMBEDDED SYSTEMS

PROGRAMMABLE HARDWARE

Apress Develop the software and hardware you never think about. We're talking about the nitty-gritty behind the buttons on your microwave, inside your thermostat, inside the keyboard used to type this description, and even running the monitor on which you are reading it now. Such stuff is termed embedded systems, and this book shows how to design and develop embedded systems at a professional level. Because yes, many people quietly make a successful career doing just that. Building embedded systems can be both fun and intimidating. Putting together an embedded system requires skill

sets from multiple engineering disciplines, from software and hardware in particular. Building Embedded Systems is a book about helping you do things in the right way from the beginning of your first project: Programmers who know software will learn what they need to know about hardware. Engineers with hardware knowledge likewise will learn about the software side. Whatever your background is, Building Embedded Systems is the perfect book to fill in any knowledge gaps and get you started in a career programming for everyday devices. Author Changyi Gu brings more than fifteen years of experience in working his way up the ladder in the field of embedded systems. He brings knowledge of numerous approaches to embedded systems design, including the System on Programmable Chips (SOPC) approach that is currently growing to dominate the field. His knowledge and experience make Building Embedded Systems an excellent book for anyone wanting to enter the field, or even just to do some embedded programming as a side project. What You Will Learn Program embedded systems at the hardware level Learn current industry practices in firmware development Develop practical knowledge of embedded hardware options Create tight integration between software and hardware Practice a work flow leading to successful outcomes Build from transistor level to the system level Make sound choices between performance and cost Who This Book Is For Embedded-system engineers and intermediate electronics enthusiasts who are seeking tighter integration between software and hardware. Those who favor the System on a Programmable Chip (SOPC) approach will in particular benefit from this book. Students in both Electrical Engineering and Computer Science can also benefit from this book and the real-life industry practice it provides.