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KEY=SYSTEMS - BURNS MCCARTHY

Real-time Systems

A systematic treatment of the major issues involved in designing a real time system, this textbook includes coverage of task allocation, synchronization, fault-tolerance and reliability.

Reliable Software Technologies -- Ada-Europe 2012

17th Ada-Europe International Conference on Reliable Software Technologies, Stockholm, Sweden, June 11-15, 2012, Proceedings

Springer This book constitutes the refereed proceedings of the 17th Ada-Europe International Conference on Reliable Software Technologies, Ada-Europe 2012, held in Stockholm, Sweden, in June 2012. The revised 15 full papers presented were carefully reviewed and selected from 34 submissions. They are organized in topical sections on application frameworks, use of ada, modeling, testing and validation,and real-time systems.

Embedded Software and Systems

Third International Conference, ICESS 2007, Daegu, Korea, May 14-16, 2007, Proceedings

Springer This book constitutes the refereed proceedings of the Third International Conference on Embedded Software and Systems, ICESS 2007, held in Daegu, Korea, May 2007. The 75 revised full papers cover embedded architecture, embedded hardware, embedded software, HW-SW co-design and SoC, multimedia and HCI, pervasive/ubiquitous computing and sensor network, power-aware computing, real-time systems, security and dependability, and wireless communication.

Parallel and Distributed Processing

10th International IPPS/SPDP'98 Workshops, Held in Conjunction with the 12th International Parallel Processing Symposium and 9th Symposium on Parallel and Distributed Processing, Orlando, Florida, USA, March 30 - April 3, 1998, Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of 10 international workshops held in conjunction with the merged 1998 IPPS/SPDP symposia, held in Orlando, Florida, US in March/April 1998. The volume comprises 118 revised full papers presenting cutting-edge research or work in progress. In accordance with the workshops covered, the papers are organized in topical sections on reconfigurable architectures, run-time systems for parallel programming, biologically inspired solutions to parallel processing problems, randomized parallel

computing, solving combinatorial optimization problems in parallel, PC based networks of workstations, fault-tolerant parallel and distributed systems, formal methods for parallel programming, embedded HPC systems and applications, and parallel and distributed real-time systems.

Building QoS into Distributed Systems

IFIP TC6 WG6.1 Fifth International Workshop on Quality of Service (IWQOS '97), 21–23 May 1997, New York, USA

Springer Welcome to IWQOS'97 in New York City! Over the past several years, there has been a considerable amount of research within the field of Quality of Service (QOS). Much of that work has taken place within the context of QOS support for distributed multimedia systems, operating systems, transport subsystems, networks, devices and formal languages. The objective of the Fifth International Workshop on Quality of Service (IWQOS) is to bring together researchers, developers and practitioners working in all facets of QOS research. While many workshops and conferences offer technical sessions on the topic QOS, none other than IWQOS, provide a single-track workshop dedicated to QOS research. The theme of IWQOS'97 is building QOS into distributed systems. Implicit in that theme is the notion that the QOS community should now focus on discussing results from actual implementations of their work. As QOS research moves from theory to practice, we are interested in gauging the impact of ideas discussed at previous workshops on development of actual systems. While we are interested in experimental results, IWQOS remains a forum for fresh and innovative ideas emerging in the field. As a result of this, authors were solicited to provide experimental research (long) papers and more speculative position (short) statements for consideration. We think we have a great invited and technical program lined up for you this year. The program reflects the Program Committees desire to hear about experiment results, controversial QOS subjects and retrospectives on where we are and where we are going.

Autonomous Systems – Self-

Organization, Management, and Control

Proceedings of the 8th International Workshop held at Shanghai Jiao Tong University, Shanghai, China, October 6-7, 2008

Springer Science & Business Media The 2008 TUB-SJTU joint workshop on "Autonomous Systems – Self-Organization, Management, and Control" was held on October 6, 2008 at Shanghai Jiao Tong University, Shanghai, China. The workshop, sponsored by Shanghai Jiao Tong University and Technical University of Berlin brought together scientists and researchers from both universities to present and discuss the latest progress on autonomous systems and its applications in diverse areas. Autonomous systems are designed to integrate machines, computing, sensing, and software to create intelligent systems capable of interacting with the complexities of the real world. Autonomous systems represent the physical embodiment of machine intelligence. Topics of interest include, but are not limited to theory and modeling for autonomous systems; organization of autonomous systems; learning and perception; complex systems; multi-agent systems; robotics and control; applications of autonomous systems.

Operating Systems (Self Edition 1.1.Abridged)

(See other editions at https://books.google.com/books/?id =zSbxCwAAQBAJ and decide one)

Sibsankar Haldar Some previous editions of this book were published from Pearson Education (ISBN 9788131730225). This book, designed for those who are taking introductory courses on operating systems, presents both theoretical and practical aspects of modern operating systems. Although the emphasis is on theory, while exposing you (the reader) the subject matter, this book maintains a balance between

theory and practice. The theories and technologies that have fueled the evolution of operating systems are primarily geared towards two goals: user convenience in maneuvering computers and efficient utilization of hardware resources. This book also discusses many fundamental concepts that have been formulated over the past several decades and that continue to be used in many modern operating systems. In addition, this book also discusses those technologies that prevail in many modern operating systems such as UNIX, Solaris, Linux, and Windows. While the former two have been used to present many in-text examples, the latter two are dealt with as separate technological case studies. They highlight the various issues in the design and development of operating systems and help you correlate theories to technologies. This book also discusses Android exposing you a modern software platform for embedded devices. This book supersedes ISBN 9788131730225 and its other derivatives, from Pearson Education India. (They have been used as textbooks in many schools worldwide.) You will definitely love this self edition, and you can use this as a textbook in undergraduate-level operating systems courses.

Designing Embedded Processors

A Low Power Perspective

Springer Science & Business Media To the hard-pressed systems designer this book will come as a godsend. It is a hands-on guide to the many ways in which processor-based systems are designed to allow low power devices. Covering a huge range of topics, and co-authored by some of the field's top practitioners, the book provides a good starting point for engineers in the area, and to research students embarking upon work on embedded systems and architectures.

Embedded Computing Systems: Applications, Optimization, and Advanced Design

Applications, Optimization, and Advanced Design

IGI Global Embedded computing systems play an important and complex role in the functionality of electronic devices. With our daily routines becoming more reliant on electronics for personal and professional use, the understanding of these computing systems is crucial. Embedded Computing Systems: Applications, Optimization, and Advanced Design brings together theoretical and technical concepts of intelligent embedded control systems and their use in hardware and software architectures. By

highlighting formal modeling, execution models, and optimal implementations, this reference source is essential for experts, researchers, and technical supporters in the industry and academia.

Design Principles for Embedded Systems

Springer Nature The book is designed to serve as a textbook for courses offered to graduate and undergraduate students enrolled in electronics and electrical engineering and computer science. This book attempts to bridge the gap between electronics and computer science students, providing complementary knowledge that is essential for designing an embedded system. The book covers key concepts tailored for embedded system design in one place. The topics covered in this book are models and architectures, Executable Specific Languages – SystemC, Unified Modeling Language, real-time systems, real-time operating systems, networked embedded systems, Embedded Processor architectures, and platforms that are secured and energy-efficient. A major segment of embedded systems needs hard real-time requirements. This textbook includes real-time concepts including algorithms and real-time operating system standards like POSIX threads. Embedded systems are mostly distributed and networked for deterministic responses. The book covers how to design networked embedded systems with appropriate protocols for real-time requirements. Each chapter contains 2-3 solved case studies and 10 real-world problems as exercises to provide detailed coverage and essential pedagogical tools that make this an ideal textbook for students enrolled in electrical and electronics engineering and computer science programs.

Organic and Pervasive Computing -- ARCS 2004

International Conference on Architecture of Computing Systems, Augsburg, Germany, March 23-26, 2004, Proceedings

Springer Where is system architecture heading? The special interest group on Computer and Systems Architecture (Fachausschuss Rechner- und Systemarchitektur) of the German computer and information technology associations GI and ITG a- ed this question and discussed it during two Future

Workshops in 2002. The result in a nutshell: Everything will change but everything else will remain. Future systems technologies will build on a mature basis of silicon and IC technology,onwell-understoodprogramminglanguagesandsoftwareengineering techniques, and on well-established operating systems and middleware concepts. Newer and still exotic but exciting technologies like quantum computing and DNA processing are to be watched closely but they will not be mainstream in the next decade. Although there will be considerable progress in these basic technologies, is there any major trend which uni?es these diverse developments? There is a common denominator – according to the result of the two - ture Workshops – which marks a new quality. The challenge for future systems technologies lies in the mastering of complexity. Rigid and in?exible systems, built under a strict top-down regime, have reached the limits of manageable complexity, as has become obvious by the recent failure of several large-scale projects. Nature is the most complex system we know, and she has solved the problem somehow. We just haven't understood exactly how nature does it. But it is clear that systems designed by nature, like an anthill or a beehive or a swarm of birds or a city, are di?erent from today's technical systems that have beendesignedbyengineersandcomputerscientists.

Parallel Processing and Applied Mathematics

4th International Conference, PPAM 2001 Naleczow, Poland, September 9-12, 2001 Revised Papers

Springer This book constitutes the thoroughly refereed post-proceedings of the 4th International Conference on Parallel Processing and Applied Mathematics, PPAM 2002, held in Naleczow, Poland, in September 2001. The 101 papers presented were carefully reviewed and improved during two rounds of reviewing and revision. The book offers topical sections on distributed and grid architectures, scheduling and load balancing, performance analysis and prediction, parallel non-numerical algorithms, parallel programming, tools and environments, parallel numerical algorithms, applications, and evolutionary computing and neural networks.

Dependable Network Computing

Springer Science & Business Media Dependable Network Computing provides insights into various problems facing millions of global users resulting from the `internet revolution'. It covers real-time problems involving software, servers, and large-scale storage systems with adaptive fault-tolerant routing and dynamic reconfiguration techniques. Also included is material on routing protocols, QoS, and

dead- and live-lock free related issues. All chapters are written by leading specialists in their respective fields. Dependable Network Computing provides useful information for scientists, researchers, and application developers building networks based on commercially off-the-shelf components.

Verification and Evaluation of Computer and Communication Systems

14th International Conference, VECoS 2020, Xi'an, China, October 26–27, 2020, Proceedings

Springer Nature This book constitutes the proceedings of the 14th International Conference on Verification and Evaluation of Computer and Communication Systems, VECoS 2020, which was supposed to be held in Xi'an, China, in October 2020, but was held virtually instead. The 19 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 60 submissions. The aim of the VECoS conference is to bring together researchers and practitioners in the areas of verification, control, performance, and dependability evaluation in order to discuss state of the art and challenges in modern computer and communication systems in which functional and extra-functional properties are strongly interrelated. Thus, the main motivation for VECoS is to encourage the cross-fertilization between various formal verification and evaluation approaches, methods and techniques, and especially those developed for concurrent and distributed hardware/software systems. The papers are organized in the following topical sections: petri-net, simulation, and scheduling; formal modeling and verification, testing; and artificial intelligence and machine learning.

Trends in Network and Communications

International Conferences, NeCOM

2011, WeST 2011, and WiMON 2011, Chennai, India, July 15-17, 2011, Proceedings

Springer Science & Business Media This book constitutes the proceedings of three International Conferences, NeCoM 2011, on Networks & Communications, WeST 2011, on Web and Semantic Technology, and WiMoN 2011, on Wireless and Mobile Networks, jointly held in Chennai, India, in July 2011. The 74 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers address all technical and practical aspects of networks and communications in wireless and mobile networks dealing with issues such as network protocols and wireless networks, data communication technologies, and network security; they present knowledge and results in theory, methodology and applications of the Web and semantic technologies; as well as current research on wireless and mobile communications, networks, protocols and on wireless and mobile security.

Analysis, Architectures and Modelling of Embedded Systems

Third IFIP TC 10 International Embedded Systems Symposium, IESS 2009, Langenargen, Germany, September 14-16, 2009, Proceedings

Springer This book presents the technical program of the International Embedded Systems Symposium (IESS) 2009. Timely topics, techniques and trends in embedded system design are covered by the chapters in this volume, including modelling, simulation, verification, test, scheduling, platforms and processors. Particular emphasis is paid to automotive systems and wireless sensor networks. Sets of actual case studies in the area of embedded system design are also included. Over recent years, embedded systems have gained an enormous amount of proce- ing power and functionality and now enter numerous application areas, due to the fact that many of the formerly external components can now be integrated into a single System-on-Chip. This tendency has resulted in a dramatic reduction in the size and

cost of embedded systems. As a unique technology, the design of embedded systems is an essential element of many innovations. Embedded systems meet their performance goals, including real-time constraints, through a combination of special-purpose hardware and software components tailored to the system requirements. Both the development of new features and the reuse of existing intellectual property components are essential to keeping up with ever more demanding customer requirements. Furthermore, design complexities are steadily growing with an increasing number of components that have to cooperate properly. Embedded system designers have to cope with multiple goals and constraints simul- neously, including timing, power, reliability, dependability, maintenance, packaging and, last but not least, price.

Encyclopedia of Computer Science and Technology

Volume 29 - Supplement 14: Agent-Oriented Programming to Socio-Organizational Aspects of Expert System Design

CRC Press "This comprehensive reference work provides immediate, fingertip access to state-of-the-art technology in nearly 700 self-contained articles written by over 900 international authorities. Each article in the Encyclopedia features current developments and trends in computers, software, vendors, and applications...extensive bibliographies of leading figures in the field, such as Samuel Alexander, John von Neumann, and Norbert Wiener...and in-depth analysis of future directions."

Transactions on High-Performance Embedded Architectures and Compilers II

Springer This book contains extended versions of key papers from the 2nd International Conference on High-Performance Embedded Architectures and Compilers (HiPEAC 2007). It also covers such topics as microarchitecture, code generation, and performance modeling.

Embedded and Ubiquitous Computing

IFIP International Conference, EUC 2007, Taipei, Taiwan, December 17-20, 2007, Proceedings

Springer This book constitutes the refereed proceedings of the International Conference on Embedded and Ubiquitous Computing, EUC 2007, held in Taipei, Taiwan, in December 2007. The 65 revised full papers presented were carefully reviewed and selected from 217 submissions. The papers are organized in topical sections. They include sections on power aware computing, reconfigurable embedded systems, wireless networks, real-time/embedded operating systems, and embedded system architectures.

Design and Test Technology for Dependable Systems-on-chip

IGI Global "This book covers aspects of system design and efficient modelling, and also introduces various fault models and fault mechanisms associated with digital circuits integrated into System on Chip (SoC), Multi-Processor System-on Chip (MPSoC) or Network on Chip (NoC)"--

Emerging Memory and Computing Devices in the Era of Intelligent Machines

MDPI Computing systems are undergoing a transformation from logic-centric towards memory-centric architectures, where overall performance and energy efficiency at the system level are determined by the density, performance, functionality and efficiency of the memory, rather than the logic sub-system. This is driven by the requirements of data-intensive applications in artificial intelligence, autonomous systems, and edge computing. We are at an exciting time in the semiconductor industry where several innovative device and technology concepts are being developed to respond to these demands, and capture shares of the fast growing market for AI-related hardware. This special issue is devoted to highlighting,

discussing and presenting the latest advancements in this area, drawing on the best work on emerging memory devices including magnetic, resistive, phase change, and other types of memory. The special issue is interested in work that presents concepts, ideas, and recent progress ranging from materials, to memory devices, physics of switching mechanisms, circuits, and system applications, as well as progress in modeling and design tools. Contributions that bridge across several of these layers are especially encouraged.

Proceedings of the International Conference on Soft Computing Systems

ICSCS 2015, Volume 2

Springer The book is a collection of high-quality peer-reviewed research papers presented in International Conference on Soft Computing Systems (ICSCS 2015) held at Noorul Islam Centre for Higher Education, Chennai, India. These research papers provide the latest developments in the emerging areas of Soft Computing in Engineering and Technology. The book is organized in two volumes and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

Proceedings of the 4th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA) 2015

Springer The proceedings of the 4th International Conference on Frontiers in Intelligent Computing: Theory and Applications 2015 (FICTA 2015) serves as the knowledge centre not only for scientists and researchers in the field of intelligent computing but also for students of post-graduate level in various engineering disciplines. The book covers a comprehensive overview of the theory, methods, applications and tools of Intelligent Computing. Researchers are now working in interdisciplinary areas and the proceedings of FICTA 2015 plays a major role to accumulate those significant works in one arena. The chapters included in the proceedings inculcates both theoretical as well as practical aspects of different areas like Nature Inspired Algorithms, Fuzzy Systems, Data Mining, Signal Processing,

Image processing, Text Processing, Wireless Sensor Networks, Network Security and Cellular Automata.

Computer Software Structures Integrating AI/KBS Systems in Process Control

Elsevier The past few years have seen rapid developments in computer technology, giving rise to a range of system control options which can be applied in the process industries. These include; open systems, expert systems, neural networks, fuzzy systems and object-oriented systems, all of which are covered in this key volume, which provides an invaluable summary of the latest international research in this area.

Requirements Engineering for Sociotechnical Systems

IGI Global "This book provides a detailed account concerning information society and the challenges and application posed by its elicitation, specification, validation and management: from embedded software in cars to internet-based applications, COTS packages, health-care, and others"--Provided by publisher.

Embedded DSP Processor Design Application Specific Instruction Set Processors

Elsevier This book provides design methods for Digital Signal Processors and Application Specific Instruction set Processors, based on the author's extensive, industrial design experience. Top-down and bottom-up design methodologies are presented, providing valuable guidance for both students and practicing design engineers. Coverage includes design of internal-external data types, application specific instruction sets, micro architectures, including designs for datapath and control path, as well as memory sub systems. Integration and verification of a DSP-ASIP processor are discussed and reinforced with extensive examples. Instruction set design for application specific processors based on fast application profiling Micro architecture design methodology Micro architecture design details based on real examples Extendable architecture design protocols Design for efficient memory sub systems (minimizing on chip memory and cost) Real example designs based on extensive, industrial experiences

Distributed Computing for Emerging Smart Networks

First International Workshop, DiCES-N 2019, Hammamet, Tunisia, October 30, 2019, Revised Selected Papers

Springer Nature This book contains extended versions of the best papers presented at the First International Workshop on Distributed Computing for Emerging Smart Networks, DiCES-N 2019, held in Hammamet, Tunisia, in October 2019. The 9 revised full papers included in this volume were carefully reviewed and selected from 24 initial submissions. The papers are organized in the following topical sections: intelligent transportation systems; distributed computing for networking and communication; articial intelligence applied to cyber physical systems.

Social Networking and Computational Intelligence

Proceedings of SCI-2018

Springer Nature This book presents a selection of revised and extended versions of the best papers from the First International Conference on Social Networking and Computational Intelligence (SCI-2018), held in Bhopal, India, from October 5 to 6, 2018. It discusses recent advances in scientific developments and applications in these areas.

Advances in Web-Age Information Management

6th International Conference, WAIM

2005, Hangzhou, China, October 11-13, 2005, Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of the 6th International Conference on Web-Age Information Management, WAIM 2005, held in Hangzhou, China, in October 2005. The 48 revised full papers, 50 revised short papers and 4 industrial papers presented together with 3 invited contributions were carefully reviewed and selected from 486 submissions. The papers are organized in topical sections on XML, performance and query evaluation, data mining, semantic Web and Web ontology, data management, information systems, Web services and workflow, data grid and database languages, agent and mobile data, database application and transaction management, and 3 sections with industrial, short, and demonstration papers.

Parallel and Distributed Processing and Applications

5th International Symposium, ISPA 2007, Niagara Falls, Canada, August 29-31, 2007, Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of the 5th International Symposium on Parallel and Distributed Processing and Applications, ISPA 2007, held in Niagara Falls, Canada, in August 2007. The 83 revised full papers presented together with 3 keynote speeches were carefully reviewed and selected from 244 submissions. The papers are organized in topical sections on algorithms and applications, architectures and systems, datamining and databases, fault tolerance and security, middleware and cooperative computing, networks, as well as software and languages.

Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer

Society of India (CSI) Volume 1

Springer This volume contains 73 papers presented at CSI 2014: Emerging ICT for Bridging the Future: Proceedings of the 49th Annual Convention of Computer Society of India. The convention was held during 12-14, December, 2014 at Hyderabad, Telangana, India. This volume contains papers mainly focused on Fuzzy Systems, Image Processing, Software Engineering, Cyber Security and Digital Forensic, E-Commerce, Big Data, Cloud Computing and ICT applications.

Advances in Decision Sciences, Image Processing, Security and Computer Vision

International Conference on Emerging Trends in Engineering (ICETE), Vol. 2

Springer This book constitutes the proceedings of the First International Conference on Emerging Trends in Engineering (ICETE), held at University College of Engineering and organised by the Alumni Association, University College of Engineering, Osmania University, in Hyderabad, India on 22–23 March 2019. The proceedings of the ICETE are published in three volumes, covering seven areas: Biomedical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, and Mining Engineering. The 215 peer-reviewed papers from around the globe present the latest state-of-the-art research, and are useful to postgraduate students, researchers, academics and industry engineers working in the respective fields. Volume 2 presents papers on the theme "Advances in Decision Sciences, Image Processing, Security and Computer Vision – International Conference on Emerging Trends in Engineering (ICETE)". It includes state-of-the-art technical contributions in the areas of electronics and communication engineering and electrical and electronics engineering, discussing the latest sustainable developments in fields such as signal processing and communications; GNSS and VLSI; microwaves and antennas; signal, speech and image processing; power systems; and power electronics.

Research Anthology on

Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing

IGI Global Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

Embedded Systems Design

The ARTIST Roadmap for Research and Development

Springer Science & Business Media This extensive and increasing use of embedded systems and their integration in everyday products mark a significant evolution in information science and technology. Nowadays embedded systems design is subject to seamless integration with the physical and electronic environment while meeting requirements like reliability, availability, robustness, power consumption, cost, and deadlines. Thus, embedded systems design raises challenging problems for research, such as security, reliable and mobile services, large-scale heterogeneous distributed systems, adaptation, component-based development, and validation and tool-based certification. This book results from the ARTIST FP5 project funded by the European Commision. By integration 28 leading European research institutions with many top researchers in the area, this book assesses and strategically advances the state of the art in embedded systems. The coherently written monograph-like book is a valuable source of reference for researchers active in the field and serves well as an introduction to scientists and professionals interested in learning about embedded systems design.

Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation

17th International Workshop, PATMOS 2007, Gothenburg, Sweden, September 3-5, 2007, Proceedings

Springer This volume features the refereed proceedings of the 17th International Workshop on Power and Timing Modeling, Optimization and Simulation. Papers cover high level design, low power design techniques, low power analog circuits, statistical static timing analysis, power modeling and optimization, low power routing optimization, security and asynchronous design, low power applications, modeling and optimization, and more.

Multimedia and Ubiquitous Engineering

Springer Science & Business The aims of these proceedings are to provide a complete coverage of the areas outlined, and to bring together researchers from academic and industry to share ideas, challenges, and solutions relating to the multifaceted aspects of this field. New multimedia standards (for example, MPEG-21) facilitate the seamless integration of multiple modalities into interoperable multimedia frameworks, transforming the way people work and interact with multimedia data. These key technologies and multimedia solutions interact and collaborate with each other in increasingly effective ways, contributing to the multimedia revolution and having a significant impact across a wide spectrum of consumer, business, healthcare, education, and governmental domains.

AI and Cognitive Science '92

University of Limerick, 10–11 September 1992

Springer Science & Business Media The annual Irish Conferences on Artificial Intelligence and Cognitive Science have become the major forum in Ireland for the discussion of various aspects of artificial intelligence. Their aim is to provide a forum where researchers can present their current work, and where industrial and commercial users can relate this work to their own practical needs and experiences. Although the emphasis of the conferences is on Irish research, there are also important contributions from Europe, Australia, Canada, and the USA. This volume is based on the proceedings of the Fifth Irish Conference on Artificial Intelligence and Cognitive Science (AICS'92), which was held at the University of Limerick, Ireland, from 10-11 September 1992. The conference was divided into 6 sessions, covering knowledge representation, cognitive foundations, natural language 1 and 2, learning and expert systems, and nov§ el aspects of artificial intelligence and cognitive science. Because of the high number of papers submitted to the conference, a poster session was run in addition to the plenary sessions. Each paper presented at the poster session is represented in this volume by a four page abstract. Among the specific topics covered in this volume are: a model-based theory of conceptual combination; the nature and development of reasoning strategies; word recognition as a parsing problem; a knowledge-based autonomous vehicle system for emergency management support; the construction and use of scope neutral discourse entities; computer-based iconic communication; and exceptions in multiple inheritance systems. AI and Cognitive Science '92 provides a comprehensive record of current research into this important field. It will be of interest to researchers, lecturers and postgraduate students in a variety of disciplines related to artificial intelligence and cognitive science.

Mobile Intelligent Autonomous Systems

CRC Press Going beyond the traditional field of robotics to include other mobile vehicles, Mobile Intelligent Autonomous Systems describes important theoretical concepts, techniques, approaches, and applications that can be used to build truly mobile intelligent autonomous systems (MIAS). It offers a comprehensive treatment of robotics and MIAS, as well as r

Ubiquitous Intelligence and

Computing

8th International Conference, UIC 2011, Banff, Canada, September 2-4, 2011, Proceedings

Springer This book constitutes the refereed proceedings of the 8th International Conference on Ubiquitous Intelligence and Computing, UIC 2010, held in Banff, Canada, September 2011. The 44 papers presented together with two keynote speeches were carefully reviewed and selected from numerous submissions. The papers address all current issues in smart systems and services, smart objects and environments, cloud and services computing, security, privacy and trustworthy, P2P, WSN and ad hoc networks, and ubiquitous intelligent algorithms and applications.

Parallel Computational Fluid Dynamics

25th International Conference, ParCFD 2013, Changsha, China, May 20-24, 2013. Revised Selected Papers

Springer This book constitutes the refereed proceedings of the 25th International Conference on Parallel Computational Fluid Dynamics, ParCFD 2013, held in Changsha, China, in May 2013. The 35 revised full papers presented were carefully reviewed and selected from more than 240 submissions. The papers address issues such as parallel algorithms, developments in software tools and environments, unstructured adaptive mesh applications, industrial applications, atmospheric and oceanic global simulation, interdisciplinary applications and evaluation of computer architectures and software environments.