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Multi-disciplinary Trends in Artificial Intelligence

Frontiers in Computer Education

This volume contains the proceedings of EWSN 2009, the 6th European Conference on Wireless Sensor Networks. The conference took place in Cork, Ireland during February 11–13, 2009. The aim of the conference was to discuss the latest research results and developments in the field of wireless sensor networks. EWSN received a total of 145 full paper submissions of which 23 were selected for publication and presentation, yielding an acceptance rate of just under 16%. Paper submissions were received from 36 different countries in all parts of the world. EWSN adopted a double-blind review process, where the identities of the paper authors were also withheld from the reviewers. The selection process involved well over 400 reviews with all papers being evaluated by at least three independent

reviewers. In addition, the reviews were discussed by the Technical Program Committee after collecting all reviews and prior to making ?nal - cisions. The ?nal program covered a wide range of topics which were grouped into six sessions: performance and quality of service, routing, coordination and synchronization, data collection, security, evaluation and management. It - cluded theoretical and analytical approaches, together with empirical research and protocol/system design and implementation. The conference included a demo and poster session,co-chairedby Dirk Pesch andSajalDas,forwhichseparateproceedingsareavailable.

Next Generation Teletraffic and Wired/Wireless Advanced Networking

International Federation for Information Processing The IFIP series publishes state-of-the-art results in the sciences and technologies of information and communication. The scope of the series includes: foundations of computer science; software theory and practice; education; computer applications in technology; communication systems; systems modeling and optimization; information systems; computers and society; computer systems technology; security and protection in information processing systems; artificial intelligence; and human-computer interaction. Proceedings and post-proceedings of referred international conferences in computer science and interdisciplinary fields are featured. These

results often precede journal publication and represent the most current research. The principal aim of the IFIP series is to encourage education and the dissemination and exchange of information about all aspects of computing. For more information about the 300 other books in the IFIP series, please visit www.springeronline.com. For more information about IFIP, please visit www.ifip.org.

Oceans 2003

This book and its sister volumes constitute the proceedings of the 2nd International Symposium on Neural Networks (ISNN 2005). ISNN 2005 was held in the beautiful mountain city Chongqing by the upper Yangtze River in southwestern China during May 30-June 1, 2005, as a sequel of ISNN 2004 successfully held in Dalian, China. ISNN emerged as a leading conference on neural computation in the region with - creasing global recognition and impact. ISNN 2005 received 1425 submissions from authors on ?ve continents (Asia, Europe, North America, South America, and Oc- nia), 33 countries and regions (Mainland China, Hong Kong, Macao, Taiwan, South Korea, Japan, Singapore, Thailand, India, Nepal, Iran, Qatar, United Arab Emirates, Turkey, Lithuania, Hungary, Poland, Austria, Switzerland, Germany, France, Sweden, Norway, Spain, Portugal, UK, USA, Canada, Venezuela, Brazil, Chile, Australia, and New Zealand). Based on rigorous reviews, 483 high-quality papers were selected by the Program Committee for presentation at ISNN

2005 and publication in the proceedings, with an acceptance rate of less than 34%. In addition to the numerous contributed papers, 10 distinguished scholars were invited to give plenary speeches and tutorials at ISNN 2005.

Advances in Hybrid Information Technology

Ambient intelligence (AI) refers to a developing technology that will increasingly make our everyday environment sensitive and responsive to our presence. The AI vision requires technology invisibly embedded in our everyday surroundings, present whenever we need it that will lead to the seamless integration of lighting, sounds, vision, domestic appliances, and personal healthcare products to enhance our living experience. Written for the non-specialist seeking an authoritative but accessible overview of this interdisciplinary field, True Visions explains how the devices making up the AI world will operate collectively using information and intelligence hidden in the wireless network connecting them. Expert contributions address key AI components such as smart materials and textiles, system architecture, mobile computing, broadband communication, and underlying issues of human-environment interactions. It seeks to unify the perspectives of scientists from diverse backgrounds ranging from the physics of materials to the aesthetics of industrial design as it describes the emergence of ambient intelligence, one of today's most compelling areas of innovation.

Technologies for Advanced Heterogeneous Networks

This book constitutes the thoroughly refereed post-proceedings of the First International Conference on Hybrid Information Technology, ICHIT 2006, held in Jeju Island, Korea, in November 2006. The 64 revised papers were carefully selected during a second round of reviewing and improvement from 235 reports given at the conference and are presented in extended version in the book. The papers are organized in topical sections on data analysis, modeling, and learning; imaging, speech, and complex data; applications of artificial intelligence; hybrid, smart, and ubiquitous systems; hardware and software engineering; as well as networking and telecommunications.

Advances in Neural Networks--ISNN

International Conference on innovations in communications and computer science engineering (ICICCE'15) is organized by International Journal for Trends in Engineering & Technology (IJTET). The aim of the conference is to carry together professionals and researchers from academic to industry to achieve their utilization in the areas and to encourage their development with genuine technology methods. The conference theme concentrates to discover the latest technological innovation, trends in technology and engineering and that are experienced by the

professionals with the present strict rules and to convert these complications into prospects. Authors are approved to post original research or system documents on any appropriate topics. These can either be frequent or brief documents.

Parallel and Distributed Processing and Applications

Design and Evaluation of Multi-protocol Communication on a Cluster of SMP's

The two volume set, CCIS 262 and 263, constitutes the refereed proceedings of the International Conference, MulGraB 2011, held as Part of the Future Generation Information Technology Conference, FGIT 2011, in conjunction with GDC 2011, Jeju Island, Korea, in December 2011. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of multimedia, computer graphics and broadcasting.

True Visions

This book constitutes the refereed proceedings of the 4th International Conference on Ad-Hoc Networks and Wireless, ADHOC-NOW 2005, held in Cancun, Mexico in

October 2005. The 27 revised full papers presented together with the abstracts of 2 invited talks were carefully reviewed and selected from over 100 submissions. The papers discuss architectures, protocols, and algorithms for: access control, scheduling, ad hoc and sensor networks analytic methods and modelling for performance evaluation, characterization, optimization, auto-configuration, incentives and pricing, location awareness, discovery, dependence, and management, mesh networks, new applications, power management, power control, and energy-efficiency, quality-of-service, resource allocation, multimedia, routing (unicast, multicast, etc.), security and privacy, service discovery, systems and testbeds, wireless internet, and data management.

Journal of Communications and Networks

Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014

This book constitutes the refereed proceedings of the Second International Conference on Mobile Ad-hoc and Sensor Networks, MSN 2006, held in Hong Kong, China in December 2006. The 73 revised full papers were carefully reviewed and selected from a total of 254 submissions. The papers address all current issues in

mobile ad hoc and sensor networks and are organized in topical sections on routing, network protocols, security, energy efficiency, data processing, and deployment.

Handbook of Algorithms for Wireless Networking and Mobile Computing

Routing for Wireless Multi-Hop Networks

This book is the refereed proceedings of the Third International Conference on Ubiquitous Intelligence and Computing, UIC 2006, held in Wuhan, China. The book presents 117 revised full papers together with a keynote paper were carefully reviewed and selected from 382 submissions. The papers are organized in topical sections on smart objects and embedded systems; smart spaces, environments, and platforms; ad-hoc and intelligent networks; sensor networks, and more.

Advances in Neural Networks - ISNN 2005

"This book highlights and discusses the underlying QoS issues that arise in the delivery of real-time multimedia services over wireless networks"--Provided by

publisher.

Security in Ad Hoc and Sensor Networks

Advances in Networks and Communications

Wireless sensor networks (WSNs) utilize fast, cheap, and effective applications to imitate the human intelligence capability of sensing on a wider distributed scale. But acquiring data from the deployment area of a WSN is not always easy and multiple issues arise, including the limited resources of sensor devices run with one-time batteries. Additional WSN concerns include the external environment, routing, data aggregation, and ensuring quality of service (QoS) and security. Solutions have been developed for various types of application scenarios, but many problems still remain as open research challenges. *Wireless Sensor Networks: Current Status and Future Trends* covers the various issues associated with WSNs, including their structure, activities, and applications. Bringing together the contributions of researchers and experts in the field, this book explores: Applications of WSNs, data-centric storage, environmental forest monitoring, and the fundamentals of wireless body area networks Mobile medium access control (MAC) protocols, cooperative diversity sensor systems, and WSNs operating in IEEE

802.11 networks Location and position estimation in WSNs, techniques used in localization algorithms, and localization schemes Energy-centric simulation and design space exploration The fundamentals of MAC protocols and specific requirements and problems Protocols and data gathering Privacy and security issues in WSNs, solutions based on watermarking, and proposed work on intrusion detection systems (IDS) in WSNs Reviewing current trends in research and development as well as future expectations in the relevant areas, this book is a valuable reference for students, graduates, academics, researchers of computer science, and engineers, whether working in professional organizations or research institutions.

INTERNATIONAL CONFERENCE ON INNOVATIONS IN COMMUNICATIONS AND COMPUTER ENGINEERING - ICICCE'15

This book constitutes the refereed proceedings of the 7th International Workshop on Distributed Computing, IWDC 2004, held in Kharagpur, India in December 2005. The 28 revised full papers and 33 revised short papers presented together with 5 invited keynote talks were carefully reviewed and selected from 253 submissions. The papers are organized in topical sections on theory of distributed computing, sensor networks, fault tolerance, optical networks, peer-to-peer networks, wireless networks, network security, grid and networks, middleware and data management,

mobility management, and distributed artificial intelligence.

Wireless Sensor Networks and Applications

This book is the proceedings of the 2011 International Conference on Frontiers in Computer Education (ICFCE 2011) in Sanya, China, December 1-2, 2011. The contributions can be useful for researchers, software engineers, and programmers, all interested in promoting the computer and education development. Topics covered are computing and communication technology, network management, wireless networks, telecommunication, Signal and Image Processing, Machine Learning, educational management, educational psychology, educational system, education engineering, education technology and training. The emphasis is on methods and calculi for computer science and education technology development, verification and verification tools support, experiences from doing developments, and the associated theoretical problems.

Ubiquitous Intelligence and Computing

Most of the available literature in wireless networking and mobile computing concentrates on the physical aspect of the subject, such as spectrum management and cell re-use. In most cases, a description of fundamental distributed algorithms

that support mobile hosts in a wireless environment is either not included or is only briefly discussed.

Handbook of Research on Wireless Multimedia: Quality of Service and Solutions

The focus of this brief is to identify what unifies and what distinguishes the routing functions in four wireless multi-hop network paradigms. The brief introduces a generic routing model that can be used as a foundation of wireless multi-hop routing protocol analysis and design. It demonstrates that such model can be adopted by any wireless multi-hop routing protocol. Also presented is a glimpse of the ideal wireless multi-hop routing protocol along with several open issues.

NETWORKING 2007. Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet

This book constitutes the refereed proceedings of the First Asian Internet Engineering Conference, AINTEC 2005, held in Bangkok, Thailand in December 2005. The 18 revised full papers presented together with 3 invited papers and 1 invited position paper were carefully reviewed and selected from 52 submissions. The papers are organized in topical sections on wireless, mobility and emergency

network, routing in ad-hoc network, extending manet, securing network, multi-services in IP-based networks, as well as measurement and performance analysis.

Information Networking

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 three keynote are cover algorithms and applications, architectures and systems, datamining and databases, fault tolerance and security, middleware and cooperative computing, networks, as well as software and languages.

Embedded and Ubiquitous Computing - EUC 2005 Workshops

Advances in Electrical Engineering and Computational Science

Parallel and Distributed Processing and Applications

This thesis focuses on the medium access control (MAC) layer. Many MAC protocols

for wireless networks proposed or implemented to date are based on collision-avoidance handshakes between sender and receiver. The key objective of collision-avoidance handshakes is reducing or eliminating the collision of data packets from a source at any given receiver due to interference from packets from other sources. In the vast majority of these protocols, including the IEEE 802.11 standard, the handshake is sender-initiated, in that the sender asks the receiver for permission to transmit using a short control packet, and transmits only after the receiver sends a short clear-to-send notification. There are two main objectives in this work: analyze the effect of reversing the collision-avoidance handshake as a way to improve the performance of MAC protocols under any conditions in the network, and design MAC protocols that provide correct floor acquisition without carrier sensing or code pre-assignment. We show that receiver-initiated collision-avoidance MAC protocols not only outperform any sender-initiated ones, but also guarantee collision-free data transmission and seamless support for mobility by using simple, low-cost wireless radios. We study the effect of persistent carrier sensing in receiver- as well as sender-initiated MAC protocols. We extend our work to multi-channel radios and introduce novel collision-avoidance MAC protocols that eliminate the need for carrier sensing and code pre-assignment, and improve the utilization of the medium in the presence of unicast, multicast and broadcast traffic.

Mobile Ad-hoc and Sensor Networks

Welcome to the proceedings of the 4th International Symposium on Parallel and Distributed Processing and Applications (ISPA 2006), which was held in Sorrento, Italy, December, 4-6 2006. Parallel computing has become a mainstream research area in computer science and the ISPA conference has become one of the premier forums for the presentation of new and exciting research on all aspects of parallel and distributed computing. We are pleased to present the proceedings for ISPA 2006, which comprises a collection of excellent technical papers and keynote speeches. The accepted papers cover a wide range of exciting topics including architectures, languages, algorithms, software, networking and applications. The conference continues to grow and this year a record total of 277 manuscripts were submitted for consideration by the Program Committee. From these submissions the Program Committee selected only 79 regular papers in the program, which reflects the acceptance rate as 28%. An additional 10 workshops complemented the outstanding paper sessions. The submission and review process worked as follows. Each submission was assigned to at least three Program Committee members for review. Each Program Committee member prepared a single review for each assigned paper or assigned a paper to an outside reviewer for review. In addition, the Program Chairs and Program Vice-Chairs read the

papers when a conflicting review - sult occurred. Finally, after much discussion among the Program Chairs and ProgramVice-Chairs, based on the review scores, the ProgramChairs made the final decision. Given the large number of submissions, each ProgramCommittee member was assigned roughly 7-12 papers.

Wireless Sensor Networks

Constitutes the refereed proceedings of the Second International Conference MCO 2008, Metz, France, September 2008. This title organizes the papers in topical sections on optimization and decision making; data mining theory, systems and applications; computer vision and image processing; and computer communications and networks.

High Performance Computing Systems and Applications

This book presents selected articles from the Second International Workshop on Vehicular Adhoc Networks for Smart Cities, 2016 (I WVSC'2016). In order to promote further research activities and challenges, it highlights recent developments in vehicular networking technologies and their role in future smart cities.

Challenges in Ad Hoc Networking

This volume contains 87 papers presented at FICTA 2014: Third International Conference on Frontiers in Intelligent Computing: Theory and Applications. The conference was held during 14-15, November, 2014 at Bhubaneswar, Odisha, India. This volume contains papers mainly focused on Network and Information Security, Grid Computing and Cloud Computing, Cyber Security and Digital Forensics, Computer Vision, Signal, Image & Video Processing, Software Engineering in Multidisciplinary Domains and Ad-hoc and Wireless Sensor Networks.

Wireless Sensor Networks

This book constitutes the refereed proceedings of the EUC 2005 workshops held in conjunction with the IFIP International Conference on Embedded and Ubiquitous Computing, EUC 2005, in Nagasaki, Japan in December 2005. The 132 revised full papers presented were carefully reviewed and selected from 352 submissions. Topics covered by the five workshops are ubiquitous intelligence and smart worlds (UISW 2005), network-centric ubiquitous systems (NCUS 2005), security in ubiquitous computing systems (SecUbiq 2005), RFID and ubiquitous sensor networks (USN 2005), and trusted and autonomic ubiquitous and embedded

systems (TAUES 2005).

Proceedings of the 1st ACM Workshop on Security of Ad Hoc and Sensor Networks

A crucial reference tool for the increasing number of scientists who depend upon sensor networks in a widening variety of ways. Coverage includes network design and modeling, network management, data management, security and applications. The topic covered in each chapter receives expository as well as scholarly treatment, covering its history, reviewing state-of-the-art thinking relative to the topic, and discussing currently unsolved problems of special interest.

Distributed Computing - IWDC 2005

This book constitutes the refereed proceedings of the 6th International IFIP-TC6 Networking Conference, NETWORKING 2007, held in Atlanta, GA, USA in May 2007. The 99 revised full papers and 30 poster papers were carefully reviewed and selected from 440 submissions. The papers are organized in topical sections on ad hoc and sensor networks: connectivity and coverage, scheduling and resource allocation, mobility and location awareness, routing, and key management; wireless networks: mesh networks, mobility, TCP, MAC performance, as well as

scheduling and resource allocation; next generation inte.

Sender- and Receiver-initiated Multiple Access Protocols for Ad-hoc Networks

This volume constitutes the second of three parts of the refereed proceedings of the First International Conference on Computer Science and Information Technology, CCSIT 2010, held in Bangalore, India, in January 2011. The 66 revised full papers presented in this volume were carefully reviewed and selected. The papers are organized in topical sections on networks and communications; network and communications security; wireless and mobile networks.

Vehicular Ad-Hoc Networks for Smart Cities

This book constitutes the refereed proceedings of the 7th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking, NEW2AN 2007. The 39 revised full papers presented were carefully reviewed and selected from a total of 113 submissions. The papers are organized in topical sections on teletraffic, traffic characterization and modeling, 3G/UMTS, sensor networks, WLAN, QoS, MANETs, lower layer techniques, PAN technologies, and TCP.

Proceedings

This volume constitutes the refereed proceedings of the 5th Multi-disciplinary International Workshop On Artificial Intelligence, MIWAI 2011, held in Hyderabad, India, in December 2011. The 38 revised full papers presented were carefully reviewed and selected from 71 submissions. The papers cover the multifarious nature of the Artificial Intelligence research domain, ranging from theoretical to real world applications and address topics such as agent-based simulation, agent-oriented software engineering, agents and Web services, agent-based electronic commerce, auctions and markets, AI in video games, computer vision, constraint satisfaction, data mining, decision theory, distributed AI, e-commerce and AI, game theory, internet/www intelligence, industrial applications of AI, intelligent tutoring, knowledge representation and reasoning, machine learning, multi-agent planning and learning, multi-agent systems and their applications, multi-agent systems and evolving intelligence, natural language processing, neural networks, planning and scheduling, robotics, uncertainty in AI, and Web services.

Ad-Hoc, Mobile, and Wireless Networks

Advances in Electrical Engineering and Computational Science contains sixty-one revised and extended research articles written by prominent researchers

participating in the conference. Topics covered include Control Engineering, Network Management, Wireless Networks, Biotechnology, Signal Processing, Computational Intelligence, Computational Statistics, Internet Computing, High Performance Computing, and industrial applications. Advances in Electrical Engineering and Computational Science will offer the state of art of tremendous advances in electrical engineering and computational science and also serve as an excellent reference work for researchers and graduate students working with/on electrical engineering and computational science.

Self Organization in Medium Access Control for Wireless Ad Hoc and Sensor Networks

This book constitutes the thoroughly refereed post-conference proceedings of the 23rd International Symposium on High Performance Computing Systems and Applications, HPCS 2009, held in Kingston, Canada, in June 2009. The 29 revised full papers presented - fully revised to incorporate reviewers' comments and discussions at the symposium - were carefully selected for inclusion in the book. The papers are organized in topical sections on turbulence, materials and life sciences, bringing HPC to industry, computing science, mathematics, and statistics, as well as HPC systems and methods.

Modelling, Computation and Optimization in Information Systems and Management Sciences

Multi-disciplinary Trends in Artificial Intelligence

This book constitutes the refereed proceedings of the International Conference on Information Networking, ICOIN 2005 held in Jeju Island, Korea in January/February 2005. The conference focused on convergence in broadband and mobile networking. The 96 revised full papers presented were carefully reviewed and selected from 427 submissions. The papers are organized in topical sections on wireless LAN, security, TCP and congestion control, wireless ad-hoc network routing, network measurement, routing, power control in wireless networks, quality of service, high speed networks, wireless ad-hoc networks, network design, peer-to-peer networks, and applications and services.

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