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The Environmental Update MDPI

This four volume set of books constitutes the proceedings of the 36th International Conference Information Systems Architecture and Technology 2015, or ISAT 2015 for short, held on September 20–22, 2015 in Karpacz, Poland. The conference was organized by the Computer Science and Management Systems Departments, Faculty of Computer Science and Management, Wroclaw University of Technology, Poland. The papers included in the proceedings have been subject to a thorough review process by highly

qualified peer reviewers. The accepted papers have been grouped into four parts: Part I—addressing topics including, but not limited to, systems analysis and modeling, methods for managing complex planning environment and insights from Big Data research projects. Part II—discussing about topics including, but not limited to, Web systems, computer networks, distributed computing, and multi-agent systems and Internet of Things. Part III—discussing topics including, but not limited to, mobile and Service Oriented Architecture systems, high performance computing, cloud computing, knowledge discovery, data mining and knowledge based management. Part IV—dealing with topics including, but not limited to,

finance, logistics and market problems, and artificial intelligence methods. [Emerging Trends in IoT and Integration with Data Science, Cloud Computing, and Big Data Analytics](#) IOS Press
 Software is the essential enabling means for science and the new economy. It helps us to create a more reliable, flexible and robust society. But software often falls short of our expectations. Current methodologies, tools, and techniques remain expensive and are not yet sufficiently reliable, while many promising approaches have proved to be no more than case-by-case oriented methods. This book contains extensively reviewed papers from the thirteenth International Conference on New Trends in software

Methodology, Tools and Techniques (SoMeT_14), held in Langkawi, Malaysia, in September 2014. The conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques, and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business. The emphasis has been on human-centric software methodologies, end-user development techniques and emotional reasoning, for an optimally harmonized performance between the design tool and the user. Topics covered include the handling of cognitive issues in software development to adapt it to the user's mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models. This book provides an opportunity for the software science community to show where we are today and where the future may take us.

Reconfigurable Intelligent Surface-Empowered 6G Springer

Construction researchers and industry practitioners have begun to explore the possibilities offered by mobile and pervasive computing in architecture, engineering and construction (AEC). It is expected that the construction industry will be keen to apply these technologies as they promise significant benefits in areas such as materials management, project management, distributed collaboration and information management, all leading to improvements in productivity. This book offers a comprehensive reference volume to the use of mobile and pervasive computing in construction. Based on contributions from a mix of leading researchers and experts from academia and industry, it provides up-to-date insights into current research topics in this field as well as the latest technological advancements and practical examples. The chapters introduce the key theoretical concepts in mobile and pervasive computing and highlight the applications and solutions which are available to the construction industry. More specifically, the book focuses on the manner in which these technologies can be applied to improve practices in construction and related industries. This book will be of particular interest to academics, researchers, and graduate students at universities and industrial practitioners seeking to apply mobile and pervasive computing systems to improve

construction industry productivity.

Robot Localization and Map Building Springer Nature

This book comprises the proceedings of the Annual Conference of the Canadian Society of Civil Engineering 2021. The contents of this volume focus on specialty conferences in construction, environmental, hydrotechnical, materials, structures, transportation engineering, etc. This volume will prove a valuable resource for those in academia and industry.

New Trends in Software Methodologies, Tools and Techniques MDPI

This book constitutes the refereed proceedings of the international competition aimed at the evaluation and assessment of Ambient Assisted Living, EvAAL 2012, which was organized in three major events: the Second International Competition on Indoor Localization and Tracking for Ambient Assisted Living, which took place in Madrid, Spain, in July 2012, the First International Competition on Activity Recognition for Ambient Assisted Living, which took place in Valencia, Spain, in July 2012, and the Final Workshop, which was held in Eindhoven, The Netherlands, in September 2012. The papers included in this book describe the organization and technical aspects of the competitions, and provide a complete technical description of the competing artefacts and report on the experience lessons learned by the teams during the competition.

Web Accessibility Springer

This book constitutes the proceedings of the 11th International Conference on Spatial Information Theory, COSIT 2013, held in Scarborough, UK, in September 2013. The 28 papers presented in this book were carefully reviewed and selected from 62 full paper submissions. The following topics are addressed: spatial change, wayfinding and assistance, representing spatial data, handling language data, spatial language and computation, spatial ontology, spatial reasoning and representation.

Web and Wireless Geographical Information Systems Cambridge University Press

Position estimation of wireless devices has many applications in short-range networks. Ultra-wideband (UWB) signals provide accurate positioning capabilities that can be harnessed in wireless systems to realise these applications. This text provides detailed coverage of UWB positioning systems, offering comprehensive treatment of signal and receiver design for ranging, range

estimation techniques, theoretical performance bounds, ranging algorithms and protocols. Beginning with a discussion of the potential applications of wireless positioning, and investigating UWB signals for such applications, later chapters establish a signal processing framework for analysing UWB positioning and ranging systems. The recent IEEE 802.15.4a standard related to UWB is also studied in detail. Each chapter contains examples, problems and Matlab scripts to help readers grasp key concepts. This is an ideal text for graduate students and researchers in electrical and computer engineering, and practitioners in the communications industry, particularly those in wireless communications. Further resources are available at www.cambridge.org/9780521873093.

Mobile and Pervasive Computing in Construction BoD – Books on Demand

Provides technical and scientific descriptions of potential approaches used to achieve indoor positioning, ranging from sensor networks to more advanced radio-based systems. This book presents a large technical overview of various approaches to achieve indoor positioning. These approaches cover those based on sensors, cameras, satellites, and other radio-based methods. The book also discusses the simplification of certain implementations, describing ways for the reader to design solutions that respect specifications and follow established techniques. Descriptions of the main techniques used for positioning, including angle measurement, distance measurements, Doppler measurements, and inertial measurements are also given.

Indoor Positioning: Technologies and Performance starts with overviews of the first age of navigation, the link between time and space, the radio age, the first terrestrial positioning systems, and the era of artificial satellites. It then introduces readers to the subject of indoor positioning, as well as positioning techniques and their associated difficulties. Proximity technologies like bar codes, image recognition, Near Field Communication (NFC), and QR codes are covered—as are room restricted and building range technologies. The book examines wide area indoor positioning as well as world wide indoor technologies like High-Sensitivity and Assisted GNSS, and covers maps and mapping. It closes with the author's vision of the future in which the practice of indoor positioning is perfected across all technologies. This text: Explores aspects of indoor positioning from both theoretical and practical points of view Describes

advantages and drawbacks of various approaches to positioning Provides examples of design solutions that respect specifications of tested techniques Covers infra-red sensors, lasers, Lidar, RFID, UWB, Bluetooth, Image SLAM, LiFi, WiFi, indoor GNSS, and more Indoor Positioning is an ideal guide for technical engineers, industrial and application developers, and students studying wireless communications and signal processing.

Recent Advances in Indoor Localization Systems and Technologies

Cambridge University Press This book discusses innovation in ultra-wideband (UWB) technologies and systems. Divided into four sections, the volume introduces UWB technologies and RF modules, examines applications of these systems in areas such as medicine and sports, and discusses the importance of an accurate design of microwave modules and antennas.

Geospatial Information Technology for Emergency Response

ScholarlyEditions

The internet of things (IoT) has emerged to address the need for connectivity and seamless integration with other devices as well as big data platforms for analytics. However, there are challenges that IoT-based applications face including design and implementation issues; connectivity problems; data gathering, storing, and analyzing in cloud-based environments; and IoT security and privacy issues.

Emerging Trends in IoT and Integration with Data Science, Cloud Computing, and Big Data Analytics is a critical reference source that provides theoretical frameworks and research findings on IoT and big data integration. Highlighting topics that include wearable sensors, machine learning, machine intelligence, and mobile computing, this book serves professionals who want to improve their understanding of the strategic role of trust at different levels of the information and knowledge society. It is therefore of most value to data scientists, computer scientists, data analysts, IT specialists, academicians, professionals, researchers, and students working in the field of information and knowledge management in various disciplines that include but are not limited to information and communication sciences, administrative sciences and management, education, sociology, computer science, etc. Moreover, the book provides insights and supports executives concerned with the management of expertise, knowledge, information, and organizational development in different types of work communities and environments.

Proceedings of the Canadian Society of Civil Engineering Annual Conference 2022 Springer Nature

This book constitutes the refereed proceedings of the international competition aimed at the evaluation and assessment of Ambient Assisted Living, EvAAL 2013, which was organized in three major events: the International Competition on Indoor Localization and Tracking for Ambient Assisted Living, which took place in Madrid, Spain, in July 2013; the International Competition on Activity Recognition for Ambient Assisted Living, which took place in Valencia, Spain, in July 2013; and the Final Workshop, which was held in Norrköping, Sweden, in September 2013. The papers included in this book describe the organization and technical aspects of the competitions and provide a complete technical description of the competing artefacts and report on the experience lessons learned by the teams during the competition.

Evaluating AAL Systems Through Competitive Benchmarking Springer

Introduction to GNSS antenna performance parameters -- FRPAs and high-gain directional antennas -- Multiband, handset, and active GNSS antennas -- Adaptive GPS antennas -- Ground plane, aircraft fuselage, and other platform effects on GPS antennas -- Measurement of the characteristics of GNSS antennas -- Antennas and site considerations for precise applications.

Business Models and ICT

Technologies for the Fashion Supply Chain

BoD – Books on Demand Wireless technology has become extremely important for human life and nearly everyone carries at least one cell/mobile phone. Voice communication affects our daily lives and we are influenced by day-to-day routine. Wireless systems are being explored for numerous applications in addition to their current communication function. One can only imagine the possible innovations from an area is expanding at an unprecedented rate and offers significant future potentials. This volume is a carefully selected collection of papers that characterizes the technology and establishes its use.

Technical Reports Awareness Circular : TRAC. John Wiley & Sons

This book constitutes the refereed proceedings of the 17th International Symposium on Web and Wireless Geographical Information Systems, W2GIS 2019, held in Kyoto, Japan, in May 2019. The 10 full papers included in the volume together with a keynote paper and 3 work-in-progress papers were carefully

reviewed and selected from 37 submissions. The papers discuss advances in theoretical, technical, and practical issues in the field of wireless and Internet technologies suited for the dissemination, usage, and processing of geo-referenced data. They cover topics such as Web technologies and techniques, paths and navigation, Web visualization, and novel applications.

Ocean News & Technology Artech House

Issues in Robotics and Automation / 2013 Edition is a ScholarlyEditions™ book that

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Spatial Information Theory Ultra-wideband Positioning Systems

This book relates research being implemented in three main research areas: secure connectivity and intelligent systems, real-time analytics and manufacturing knowledge and virtual manufacturing. Manufacturing SMEs and MNCs want to see how Industry 4.0 is implemented. On the other hand, groundbreaking research on this topic is constantly growing. For the aforesaid reason, the Singapore Agency for Science, Technology and Research (A*STAR), has created the model factory initiative. In the model factory, manufacturers, technology providers and the broader industry can (i) learn how I4.0 technologies are implemented on real-world manufacturing use-cases, (ii) test process improvements enabled by such technologies at the model factory facility, without disrupting their own operations, (iii) co-develop technology solutions and (iv) support the adoption of solutions at their everyday industrial operation. The book constitutes a clear base ground not only for inspiration of

researchers, but also for companies who will want to adopt smart manufacturing approaches coming from Industry 4.0 in their pathway to digitization.

Innovations in Ultra-Wideband Technologies CRC Press

This book presents novel RIS-Based Smart Radio techniques, targeting at achieving high-quality channel links in cellular communications via design and optimization of the RIS construction. Unlike traditional antenna arrays, three unique characteristics of the RIS will be revealed in this book. First, the built-in programmable configuration of the RIS enables analog beamforming inherently without extra hardware or signal processing. Second, the incident signals can be controlled to partly reflect and partly transmit through the RIS simultaneously, adding more flexibility to signal transmission. Third, the RIS has no digital processing capability to actively send signals nor any radio frequency (RF) components. As such, it is necessary to develop novel channel estimation and communication protocols, design joint digital and RIS-based analog beamforming schemes and perform interference control via mixed reflection and transmission. This book also investigates how to integrate the RIS to legacy communication systems. RIS techniques are further investigated in this book (benefited from its ability to actively shape the propagation environment) to achieve two types of wireless applications, i.e., RF sensing and localization. The influence of the sensing objectives on the wireless signal propagation can be potentially recognized by the receivers, which are then utilized to identify the objectives in RF sensing. Unlike traditional sensing techniques, RIS-aided sensing can actively customize the wireless channels and generate a favorable massive number of independent paths interacting with the sensing objectives. It is desirable to design RIS-based sensing algorithms, and optimize RIS configurations. For the second application, i.e., RIS aided localization, an

RIS is deployed between the access point (AP) and users. The AP can then analyze reflected signals from users via different RIS configurations to obtain accurate locations of users. However, this is a challenging task due to the dynamic user topology, as well as the mutual influence between multiple users and the RIS. Therefore, the operations of the RIS, the AP, and multiple users need to be carefully coordinated. A new RIS-based localization protocol for device cooperation and an RIS configuration optimization algorithm are also required. This book targets researchers and graduate-level students focusing on communications and networks. Signal processing engineers, computer and information scientists, applied mathematicians and statisticians, who work in RIS research and development will also find this book useful.

Robotics and Automation in Construction IGI Global

This book discusses how smart cities strive to deploy and interconnect infrastructures and services to guarantee that authorities and citizens have access to reliable and global customized services. The book addresses the wide range of topics present in the design, development and running of smart cities, ranging from big data management, Internet of Things, and sustainable urban planning. The authors cover - from concept to practice - both the technical aspects of smart cities enabled primarily by the Internet of Things and the socio-economic motivations and impacts of smart city development. The reader will find smart city deployment motivations, technological enablers and solutions, as well as state of the art cases of smart city implementations and services. · Provides a single compendium of the technological, political, and social aspects of smart cities; · Discusses how the successful deployment of smart Cities requires a unified infrastructure to support the diverse set of applications that can be used towards urban development; ·

Addresses design, development and running of smart cities, including big data management and Internet of Things applications.

Information Systems Architecture and Technology: Proceedings of 36th International Conference on Information Systems Architecture and Technology - ISAT 2015 - Part III BoD - Books on Demand

Ultra-wideband Positioning Systems Cambridge University Press
Indoor Positioning CRC Press

This book addresses several issues related to the introduction of automaton and robotics in the construction industry in a collection of 23 chapters. The chapters are grouped in 3 main sections according to the theme or the type of technology they treat. Section I is dedicated to describe and analyse the main research challenges of Robotics and Automation in Construction (RAC). The second section consists of 12 chapters and is dedicated to the technologies and new developments employed to automate processes in the construction industry. Among these we have examples of ICT technologies used for purposes such as construction visualisation systems, added value management systems, construction materials and elements tracking using multiple IDs devices. This section also deals with Sensorial Systems and software used in the construction to improve the performances of machines such as cranes, and in improving Human-Machine Interfaces (MMI). Authors adopted Mixed and Augmented Reality in the MMI to ease the construction operations. Section III is dedicated to describe case studies of RAC and comprises 8 chapters. Among the eight chapters the section presents a robotic excavator and a semi-automated façade cleaning system. The section also presents work dedicated to enhancing the force of the workers in construction through the use of Robotic-powered exoskeletons and body joint-adapted assistive units, which allow the handling of greater loads.

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