

Indoor Location Sensing Using Geo Magnetism Cell Phone Tower Location Map

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Challenges, Experiences and Technology Roadmap Mdpi AG

This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning, control, management, and future planning. It introduces new models and tools being developed to understand and implement these technologies that enable cities to function more efficiently - to become 'smart' and 'sustainable'. The smart city has quickly emerged as computers have become ever smaller to the point where they can be embedded into the very fabric of the city, as well as being central to new ways in which the population can communicate and act. When cities are wired in this way, they have the potential to become sentient and responsive, generating massive streams of 'big' data in real time as well as providing immense opportunities for extracting new forms of urban data through crowdsourcing. This book offers a comprehensive review of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling. It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key urban analytics that are fundamental to learning about the smart city, and it outlines ways in which these tools can be used to inform design and policy so that cities can become more efficient with a greater concern for environment and equity.

18th International Symposium, W2GIS 2020, Wuhan, China, November 13-14, 2020, Proceedings Springer Nature

This book constitutes the refereed proceedings of the 9th International Conference on Ubiquitous Computing and Ambient Intelligence, UCAI 2015, held in Puerto Varas, Chile, in December 2015. The 36 full papers presented together with 11 short papers were carefully reviewed and selected from 62 submissions. The papers are grouped in topical sections on adding intelligence for environment adaption; ambient intelligence for transport; human interaction and ambient intelligence; and ambient intelligence for urban areas.

A Crowdsourcing Approach Springer

As the first volume of World Scientific Encyclopedia with Semantic Computing and Robotic Intelligence, this volume is designed to lay the foundation for the understanding of the Semantic Computing (SC), as a core concept to study Robotic Intelligence in the subsequent volumes. This volume aims to provide a reference to the development of Semantic Computing, in the terms of "meaning", "context", and "intention". It brings together a series of technical notes, in average, no longer than 10 pages in length, each focuses on one topic in Semantic Computing; being review article or research paper, to explain the fundamental concepts, models or algorithms, and possible applications of the technology concerned. This volume will address three core areas in Semantic Computing: Understanding the (possibly naturally-expressed) intentions (semantics) of users and expressing them in a machine-processable format: Semantics description languages, ontology integration, interoperability Understanding the meanings (semantics) of computational content (of various sorts, including, but is not limited to, text, video, audio, process, network, software and hardware) and expressing them in a machine-processable format in Multimedia, IoT, SDN, wearable computing, interfactable with mobile computing, search engines, question answering, web services, to support applications in biomedicine, healthcare, manufacturing, engineering, education, finance, entertainment, business,

science and humanity Mapping the semantics of the user in context for content retrieval, management, creation in the form of structured data, image and video, audio and speech, big data, natural language, deep learning.

Volume 1 Morgan & Claypool Publishers

These proceedings present selected research papers from CSNC 2018, held during 23rd-25th May in Harbin, China. The theme of CSNC 2018 is Location, Time of Augmentation. These papers discuss the technologies and applications of the Global Navigation Satellite System (GNSS), and the latest progress made in the China BeiDou System (BDS) especially. They are divided into 12 topics to match the corresponding sessions in CSNC 2018, which broadly covered key topics in GNSS. Readers can learn about the BDS and keep abreast of the latest advances in GNSS techniques and applications.

Volume 1: Foundations Visible Light Communication Based Indoor Localization

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.

Urban Informatics CRC Press

This book discusses human-computer interaction (HCI) which is a multidisciplinary field of study which aims at developing and implementing tools and techniques to attain an effective and efficient interaction between the humans (the users) and computers. In recent years, there is an increase of interest of HCI researchers and practitioners in the inclusion of gaze gestures which can greatly enhance the communication between the human user and the computer, as well as other more “physical” communication involving all what can be learned from movements of the human body, from face, hand, leg, foot, etc., to the whole body movement, even extending to the involvement of groups of agents, even society. These explicitly human-centric issues in the development, design, analysis, and implementation of the HCI systems are discussed in the book. A comprehensive state of the art is given complemented with original own proposals. As opposed to more traditional formal and IT based analyses, the discussion is here more focused on relevant research results from psychology and psychophysiology, and other soft, cognitive, etc., sciences. Remarks on the relevance of affective computing are also mentioned.

Human Movements in Human-Computer Interaction (HCI) Springer Nature

Written by experts in the field, this book describes the Personal Network architecture and its various components This book focuses on networking and security aspects of Personal Networks (PNs). Given a single user, the authors propose an architecture for PNs in which devices are divided into one of two types of nodes: personal nodes and foreign nodes. Furthermore, the authors demonstrate the ways in which PNs can be formed in a self-organized and secure way, how they can be interconnected using infrastructure networks, how multiple PNs can be connected, and how their services and resources can be shared. In addition, the book shows how security and ease-of-use can be achieved through automatic configuration and how mobility can be supported through adaptability and self-organization. The motivations for the PN concept, the PN architecture, its functionalities and features, as well as future challenges are covered in depth. Finally, the authors consider the potential applications for PNs and briefly discuss additional support systems for PN applications. The latter includes service discovery and context information management among others. Key Features: Describes the PN network architecture and its various components in-depth Written by experts who developed this concept Discusses the newer topic of federations of PNs Considers potential PN applications, and demonstrates how applications support systems, such as service discovery and context management, can assist the applications Provides an insight into the challenges of future personal networking, architectures for PNs, potential and important solutions, and their implications This book will serve as an invaluable reference for researchers, developers, and standardization experts in mobile and wireless communication systems and services. It will also be of interest to postgraduate students in the field of telecommunications.

12th International Conference, WASA 2017, Guilin, China, June 19-21, 2017, Proceedings Springer Nature

This book gathers selected high-quality research papers presented at the Sixth International Congress on Information and Communication Technology, held at Brunel University, London, on February 25-26, 2021. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The book is presented in four volumes.

A Survey Springer

This text discusses how to find the location of mobile devices in the wireless Internet, specifically those that involve the determination of the geographic location of mobile devices. It offers exclusive coverage of the technical aspects of privacy such as linkability, anonymity and identity management.

Ubiquitous Computing and Ambient Intelligence: Context-Awareness and Context-Driven Interaction Springer Nature

This book constitutes the refereed proceedings of the 5th International Joint Conference of Ambient Intelligence, Aml 2014, held in Eindhoven, The Netherlands, in November 2014. The 21 revised full papers presented together with 5 short papers and 4 workshop papers were carefully reviewed and selected from 59 submissions. The papers are organized along a set of thematic tracks: ambient assisted living; internet of things; ambient play and learning; smart buildings and cities; intelligent driving; data science; smart healthcare and healing environments; ambient persuasion; and new and emerging themes.

Web and Wireless Geographical Information Systems Springer

Geographical Information Systems is a computer system used to capture, store, analyze and display information related to positions on the Earth's surface. It has the ability to show multiple types of information on multiple geographical locations in a single map, enabling users to assess patterns and relationships between different information points, a crucial component for multiple aspects of modern life and industry. This 3-volumes reference

provides an up-to date account of this growing discipline through in-depth reviews authored by leading experts in the field. VOLUME EDITORS Thomas J. Cova The University of Utah, Salt Lake City, UT, United States Ming-Hsiang Tsou San Diego State University, San Diego, CA, United States Georg Bareth University of Cologne, Cologne, Germany Chungqiao Song University of California, Los Angeles, CA, United States Yan Song University of North Carolina at Chapel Hill, Chapel Hill, NC, United States Kai Cao National University of Singapore, Singapore Elisabete A. Silva University of Cambridge, Cambridge, United Kingdom Covers a rapidly expanding discipline, providing readers with a detailed overview of all aspects of geographic information systems, principles and applications Emphasizes the practical, socioeconomic applications of GIS Provides readers with a reliable, one-stop comprehensive guide, saving them time in searching for the information they need from different sources

Comprehensive Geographic Information Systems Springer

This book constitutes the refereed proceedings of the International Conference of Young Computer Scientists, Engineers and Educators, ICYCSEE 2015, held in Harbin, China, in January 2015. The 61 revised full papers presented were carefully reviewed and selected from 200 submissions. The papers cover a wide range of topics related to intelligent computation in Big Data era, such as artificial intelligence, machine learning, algorithms, natural language processing, image processing, MapReduce, social network.

Semantic Computing Springer

The Handbook of Smart Antennas for RFID Systems is a single comprehensive reference on the smart antenna technologies applied to RFID. This book will provide a timely reference book for researchers and students in the areas of both smart antennas and RFID technologies. It is the first book to combine two of the most important wireless technologies together in one book. The handbook will feature chapters by leading experts in both academia and industry offering an in-depth description of terminologies and concepts related to smart antennas in various RFID systems applications. Some topics are: adaptive beamforming for RFID smart antennas, multiuser interference suppression in RFID tag reading, phased array antennas for RFID applications, smart antennas in wireless systems and market analysis and case studies of RFID smart antennas. This handbook will cover the latest achievements in the designs and applications for smart antennas for RFID as well as the basic concepts, terms, protocols, systems architectures and case studies in smart antennas for RFID readers and tags.

Using Mobile Technology to Deliver Library Services Springer

This proceedings volume collects the most up-to-date, comprehensive and state-of-the-art knowledge on wireless communication, sensor network, network technologies, services and application. Written by world renowned researchers, each chapter is original in content, featuring high-impact presentations and late-breaking contributions. Researchers and practitioners will find this edition a useful resource material and an inspirational read. Contents:Wireless CommunicationsNetwork TechnologiesServices and Application Readership: Researchers, academics, professionals and graduate students in neural networks/networking, electrical & electronic engineering, and condensed matter physics.

11th International Conference, COSIT 2013, Scarborough, UK, September 2-6, 2013, Proceedings Springer

We are facing a new technological challenge on how to store and retrieve knowledge and manipulate intelligence for autonomous services by intelligent systems which should be capable of carrying out real world tasks autonomously. To address this issue, robot researchers have been developing intelligence technology (InT) for “robots that think” which is in the focus of this book. The book covers all aspects of intelligence from perception at sensor level and reasoning at cognitive level to behavior planning at execution level for each low level segment of the machine. It also presents the technologies for cognitive reasoning, social interaction with humans, behavior generation, ability to cooperate with other robots, ambience awareness and an artificial genome that can be passed on to other robots. These technologies are to materialize cognitive intelligence, social intelligence, behavioral intelligence, collective intelligence, ambient intelligence and genetic intelligence. The book aims at serving researchers and practitioners with a timely dissemination of the recent progress on robot intelligence technology and its applications, based on a collection of papers presented at the 2nd International Conference on Robot Intelligence Technology and Applications (RITA), held in Denver, USA, December 18-20, 2013.

A Crowdsourcing Approach John Wiley & Sons

Mobile context-awareness is a popular research trend in the field of ubiquitous computing. Advances in mobile device sensory hardware and the rise of ‘virtual’ sensors such as web application programming interfaces (APIs) mean that the mobile user is exposed to a vast range of data that can be used for new advanced applications. Mobile Context Awareness presents work from industrial and academic researchers, focusing on novel methods of context acquisition in the mobile environment – particularly through the use of physical and virtual sensors – along with research into new applications utilising this context. In addition, the book provides insights into the technical and usability challenges involved in mobile context-awareness, as well as observations on current and future trends in the field.

Mission-Oriented Sensor Networks and Systems: Art and Science World Scientific

This is an essential practical guide for all information professionals who want to get to grips with or improve their use of mobile services. Packed with easy to implement ideas, practical examples and international case studies, this provides you with the ultimate toolkit, exploring ideas as simple as renewals and reminders to the more complex such as access to e-books and virtual worlds. Jargon-free coverage of the background and context to mobile delivery will enable you to fully understand the challenges and embrace the opportunities, getting to grips with critical issues such as what sort of services users really want. Key topics covered include: • context including market penetration, range and functionality of devices • texting • apps vs. mobile websites • mobile information literacy vs. other information literacies • mobiles in teaching • linking the physical and virtual worlds via mobile devices • E-books for mobiles • the future of mobile delivery. Readership: This is an essential practical guide for all information professionals who want to get to grips with or improve their use of mobile services. It would also be invaluable for museum staff facing the same challenges. Library and information students and academics will find it a useful introduction to the topic.

Multimodal Location Estimation of Videos and Images Springer

The three volume set LNCS 13155, 13156, and 13157 constitutes the refereed proceedings of the 21st International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2021, which was held online during December 3-5, 2021. The total of 145 full papers included in these

proceedings were carefully reviewed and selected from 403 submissions. They cover the many dimensions of parallel algorithms and architectures including fundamental theoretical approaches, practical experimental projects, and commercial components and systems. The papers were organized in topical sections as follows: Part I, LNCS 13155: Deep learning models and applications; software systems and efficient algorithms; edge computing and edge intelligence; service dependability and security algorithms; data science; Part II, LNCS 13156: Software systems and efficient algorithms; parallel and distributed algorithms and applications; data science; edge computing and edge intelligence; blockchain systems; deep learning models and applications; IoT; Part III, LNCS 13157: Blockchain systems; data science; distributed and network-based computing; edge computing and edge intelligence; service dependability and security algorithms; software systems and efficient algorithms.

Springer Nature

This book constitutes the refereed proceedings of the 18th International Symposium on Web and Wireless Geographical Information Systems, W2GIS 2019, held in Wuhan, China, in November 2020. The 8 full papers presented together with 15 progress papers or short papers in the volume were

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carefully reviewed and selected from 40 submissions. The papers cover topics that range from mobile GIS and Location-Based Services to Spatial Information Retrieval and Wireless Sensor Networks

Internet of Things and Artificial Intelligence in Transportation Revolution Springer Nature

This SpringerBrief examines the use of cheap commercial passive RFID tags to achieve accurate device-free object-tracking. It presents a sensitive detector, named Twins, which uses a pair of adjacent passive tags to detect uncooperative targets (such as intruders). Twins leverages a newly observed phenomenon called critical state that is caused by interference among passive tags. The author expands on the previous object tracking methods, which are mostly device-based, and reveals a new interference model and their extensive experiments for validation. A prototype implementation of the Twins-based intrusion detection scheme with commercial off-the-shelf reader and tags is also covered in this SpringerBrief. Device-Free Object Tracking Using Passive Tags is designed for researchers and professionals interested in smart sensing, localization, RFID and Internet of Things applications. The content is also useful for advanced-level students studying electrical engineering and computer science.