

Ubiquitous Positioning and Mobile Location-Based Services in Smart Phones



Ubiquitous Positioning And Mobile Location Based Services In Smart Phones Premier Reference Source

Chen, Ruizhi



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Ubiquitous Positioning and Mobile Location-Based Services in Smart Phones Chen, Ruizhi, 2012-06-30 Many smart phone users reap the benefits of location based services While tracking users positions using their smart phone is an issue of concern for some others who use Foursquare or rely on their Android GPS view location based services as a necessity *Ubiquitous Positioning and Mobile Location Based Services in Smart Phones* explores new research in smart phones with an emphasis on positioning solutions in smart phones smart phone based navigation applications mobile geographical information systems and related standards **Principle and Application Progress in Location-Based Services** Chun

Liu, 2014-07-14 These proceedings are aimed at researchers industry market operators and students from different backgrounds scientific engineering and humanistic whose work is either focused on or affined to Location Based Services LBS It contributes to the following areas positioning indoor positioning smart environments and spatial intelligence spatiotemporal data acquisition processing and analysis data mining and knowledge discovery personalization and context aware adaptation LBS visualization techniques novel user interfaces and interaction techniques smart phone navigation and LBS techniques three dimensional visualization in the LBS context augmented reality in an LBS context innovative LBS systems and applications way finding navigation indoor outdoor indoor navigation databases user studies and evaluations privacy issues in LBS usability issues in LBS legal and business aspects of LBS LBS and Web 2 0 open source solutions and standards ubiquitous computing smart cities and seamless positioning *Ubiquitous Positioning* Robin Mannings, 2008 This groundbreaking resource introduces practitioners to the emerging field of Ubiquitous Positioning positioning systems that identify the location and position of people vehicles and objects in time and space in the digitized networked economy The future and growth of ubiquitous computing will be fueled by the convergence of many other areas of technology from mobile telematics Internet technology and location systems to sensing systems geographic information systems and the semantic web This first of its kind forward looking volume explores ubiquitous computing from a convergence perspective offering a road map to this burgeoning field **Precision Positioning with Commercial Smartphones in Urban Environments**

Sara Paiva, 2021 This book discusses recent technologies and case studies that aim to enhance positioning obtained with commercial smartphones in urban environments overcoming difficulties with GPS The authors provide insight into recent trends and innovation on technologies solutions and approaches to overcome GPS issues in urban environments due to the existence of a big number of buildings Topics include security and legal aspects related to positioning systems the usage of crowdsourcing approaches to enhance positioning location based services proximity based social networking satellite navigation and Bluetooth low energy based systems The book provides important information for developers that intend to make use of precise positioning for the purpose of commercial applications as well as for research and innovation Discusses technologies that enhance positioning obtained with commercial smartphones in urban environments Presents innovations to

overcome GPS issues in urban environments caused by dense cities Includes applications of precise positioning including their security issues and challenges **Location-Based Services Handbook** Syed A. Ahson, Mohammad Ilyas, 2011-06-03

Location Based Services Handbook Applications Technologies and Security is a comprehensive reference containing all aspects of essential technical information on location based services LBS technology With broad coverage ranging from basic concepts to research grade material it presents a much needed overview of technologies for positioning and localizing including range and proximity based localization methods and environment based location estimation methods Featuring valuable contributions from field experts around the world this book addresses existing and future directions of LBS technology exploring how it can be used to optimize resource allocation and improve cooperation in wireless networks It is a self contained comprehensive resource that presents A detailed description of the wireless location positioning technology used in LBS Coverage of the privacy and protection procedure for cellular networks and its shortcomings An assessment of threats presented when location information is divulged to unauthorized parties Important IP Multimedia Subsystem and IMS based presence service proposals The demand for navigation services is predicted to rise by a combined annual growth rate of more than 104 percent between 2008 and 2012 and many of these applications require efficient and highly scalable system architecture and system services to support dissemination of location dependent resources and information to a large and growing number of mobile users This book offers tools to aid in determining the optimal distance measurement system for a given situation by assessing factors including complexity accuracy and environment It provides an extensive survey of existing literature and proposes a novel widely applicable and highly scalable architecture solution Organized into three major sections applications technologies and security this material fully covers various location based applications and the impact they will have on the future Universal Navigation on Smartphones Hassan A. Karimi, 2011-08-04

Universal navigation is accessible primarily through smart phones providing users with navigation information regardless of the environment i e outdoor or indoor Universal Navigation on Smartphones provide the most up to date navigation technologies and systems for both outdoor and indoor navigation It also provides a comparison of the similarities and differences between outdoor and indoor navigation systems from both a technological stand point and user s perspective All aspects of navigation systems including geo positioning wireless communication databases and functions will be introduced The main thrust of this book presents new approaches and techniques for future navigation systems including social networking as an emerging approach for navigation Mobile Positioning and Tracking Simone Frattasi, Francescantonio Della Rosa, 2017-07-21

The essential guide to state of the art mobile positioning and tracking techniques fully updated for new and emerging trends in the field Mobile Positioning and Tracking Second Edition explores state of the art mobile positioning solutions applied on top of current wireless communication networks Application areas covered include positioning data fusion and filtering tracking error mitigation both conventional and cooperative positioning technologies and systems and more The authors fill the gap

between positioning and communication systems showing how features of wireless communications systems can be used for positioning purposes and how the retrieved location information can be used to enhance the performance of wireless networks Unlike other books on the subject *Mobile Positioning and Tracking From Conventional to Cooperative Techniques* 2nd Edition covers the entire positioning and tracking value chain starting from the measurement of positioning signals and offering valuable insights into the theoretical fundamentals behind these methods and how they relate to application areas such as location based services as well as related disciplines and professional concerns including global business considerations and the changing laws and standards governing wireless communication networks Fully updated and revised for the latest developments in the field this Second Edition Features new chapters on UWB positioning and tracking indoor positioning in WLAN and multi tag positioning in RFID Explores an array of positioning and tracking systems based on satellite and terrestrial systems technologies and methods Introduces advanced and novel topics such as localisation in heterogeneous and cooperative scenarios Provides a bridge between research and industry with potential implementations of the solutions presented Mobile positioning and tracking is subject to continuous innovations and improvements This important working resource helps busy industry professionals and practitioners including software and service developers stay on top of emerging trends in the field It is also a valuable reference for advanced students in related disciplines studying positioning and mobile technologies

Mobile Entity Localization and Tracking in GPS-less Environments Richard Fuller, Xenofon D. Koutsoukos, 2009-09-29 This volume contains the proceedings of the Second International Workshop on Mobile Entity Localization and Tracking in GPS less Environments MELT 2009 held in Orlando Florida on September 30 2009 in conjunction with the 11th International Conference on Ubiquitous Computing Ubicomp 2009 MELT provides a forum for the presentation of state of the art technologies in mobile localization and tracking and novel applications of location based services MELT 2009 continued the success of the first workshop in the series MELT 2008 which was held in San Francisco California on September 19 2008 in conjunction with Mobicom Location awareness is a key component for achieving context awareness cent years have witnessed an increasing trend towards location based services and applications In most cases however location information is limited by the accessibility to GPS which is unavailable for indoor or underground facilities and unreliable in urban environments Much research has been done in both the sensor network community and the ubiquitous computing community to provide techniques for localization and tracking in GPS less environments Novel applications based on ad hoc localization and real time tracking of mobile entities are growing as a result of these technologies MELT brings together leaders from both the academic and industrial research communities to discuss challenging and open problems to evaluate pros and cons of various approaches to bridge the gap between theory and applications and to envision new research opportunities

Location-Based Services Axel Küpper, 2013-06-28 Since the release of the first edition of this book in 2005 significant preconditions for the realization of LBSs have changed GPS receivers have become a standard

feature of mobile devices electronic map services can easily be integrated into services by convenient APIs application programming interface the Web 2 0 paradigm has dramatically changed the way services are offered and used and manufactures have created sophisticated mobile devices making it both easy and attractive to use LBS As a result of these developments the way of realizing LBSs has changed from a network centric approach towards a device centric approach which is reflected by new location solutions for mobile devices supporting protocols and architectures This second edition of Location based Services is a compilation of the latest developments technologies and solutions in the LBS area providing a unique overview of all aspects of location based services and related technologies The book describes new architectures and protocols that have emerged in the recent years and covers new paradigms for realizing LBSs It provides a description of mobile platforms for supporting LBSs e g Android or iPhone as well as an update of other platforms and technologies examined in the first edition Containing extended chapters dealing with maps and computational geometry as well as location privacy protection the book is unique in offering broad coverage of positioning technology telecommunication and LBS services It starts with an overview of service aspects before providing the required background on geophysical aspects The main extent of the book provides information about the communication aspects and location determination technologies before concluding with a variety of available LBS solutions and platforms

Progress in Location-Based Services Jukka M. Krisp, 2013-01-03 The book consists of peer reviewed papers from the 9th symposium on Location Based Services LBS which is targeted to researchers industry market operators and students of different backgrounds scientific engineering and humanistic As the research field is developing and changing fast this book follows up on current trends and gives suggestions and guidance to further research This book offers a common ground bringing together various disciplines and practice knowledge experiences plans and ideas on how LBS can and could be improved and on how it will influence both science and society The book comprises front end publications organized into sections on spatial temporal data acquisition processing positioning indoor positioning way finding navigation indoor outdoor interactions user studies and evaluations innovative LBS systems applications

GSM-based Positioning: Techniques and Applications Nico Deblauwe, 2008

A Ubiquitous Navigation Service on Smartphones Wiem Fekih Hassen, 2020 Pedestrian navigation is a growing research field which aims at developing services and applications that ensure the continuous positioning and navigation of people inside and outside covered areas e g buildings In this thesis we propose a ubiquitous pedestrian navigation service based on user preferences and the most suitable efficient available positioning technology e g WiFi GNSS Our main objective is to estimate continuously the position of a pedestrian carrying a smartphone equipped with a variety of technologies and sensors First we propose a novel positioning technology selection algorithm called UCOSA for the complete ubiquitous navigation service in indoor and outdoor environments UCOSA algorithm starts by inferring the need of a handover between the available positioning technologies on the overlapped coverage areas using fuzzy logic technique If a handover process is required a

score is calculated for each captured Radio Frequency RF positioning technology The score function consists of two parts the first part represents the user preferences weights computed based on the Analytic Hierarchy Process AHP Whereas the second part provides the user requirements normalized values UCOSA algorithm also integrates the Pedestrian Dead Reckoning PDR positioning technique through the navigation process to enhance the estimation of the smartphone's position Second we focus on the RSS fingerprinting positioning technique as it is the most widely used technique which principle is to return the smartphone's position by comparing the real time recorded RSS values with the radiomap i.e. a database of previous stored RSS values Most of radiomap are organized in a grid formed or Reference Point RP we propose a new design of radiomap which complements the grid with other RPs located at the center of gravity of each grid square Third we address the challenge of constructing a graph for a multi floor building We propose an algorithm that starts by creating the horizontal graph of each floor separately and then adds vertical links between the different floors Finally we implement a novel algorithm called SIONA that calculates and displays in a continuous manner the pathway between two distinct points being located indoor or outdoor We conduct several real experiments inside the campus of the University of Passau in Germany to evaluate the performance of the proposed algorithms They yield promising results in terms of continuity and accuracy around 1.8 m indoor of navigation service

Progress in Location-Based Services 2016 Georg Gartner, Haosheng

Huang, 2016-10-12 This book offers a selection of the best papers presented at the 13th International Symposium on Location Based Services LBS 2016 which was held in Vienna Austria from November 14 to 16 2016 It provides an overview of recent research in the field including the latest advances in outdoor indoor positioning smart environment spatial modeling personalization and context awareness cartographic communication novel user interfaces crowd sourcing social media big data analysis usability and privacy

Location Systems Anthony LaMarca, Eyal de Lara, 2008-07-08 Advances in electronic location technology and the coming of age of mobile computing have opened the door for location aware applications to permeate all aspects of everyday life Location is at the core of a large number of high value applications ranging from the life and death context of emergency response to serendipitous social meet ups For example the market for GPS products and services alone is expected to grow to US 200 billion by 2015 Unfortunately there is no single location technology that is good for every situation and exhibits high accuracy low cost and universal coverage In fact high accuracy and good coverage seldom coexist and when they do it comes at an extreme cost Instead the modern localization landscape is a kaleidoscope of location systems based on a multitude of different technologies including satellite mobile telephony 802.11 ultrasound and infrared among others This lecture introduces researchers and developers to the most popular technologies and systems for location estimation and the challenges and opportunities that accompany their use For each technology we discuss the history of its development the various systems that are based on it and their trade offs and their effects on cost and performance We also describe technology independent algorithms that are commonly used to smooth streams of location

estimates and improve the accuracy of object tracking Finally we provide an overview of the wide variety of application domains where location plays a key role and discuss opportunities and new technologies on the horizon Table of Contents Introduction The Global Positioning System Infrared and Ultrasonic Systems Location Estimation with 802.11 Cellular Based Systems Other Approaches Improving Localization Accuracy Location Based Applications and Services Challenges and Opportunities References

Utilising Contactless Communications for Next Generation of Mobile Ubiquitous Applications Muhammad Omer Rashid, 2010 Location plays an important role in current mobile applications and services whether it is social applications gaming entertainment or mobile commerce the global market for LBS is projected to reach 13.26 billion by 2015 and a subscriber base of 1.24 billion It is the well proven winning combination of location awareness and ubiquitous nature of mobile phones that is responsible for a steady increase in mobile data usage and it is predicted that by 2013 mobile devices will overtake PC as the most common web access device Applications and services utilising traditional location tracking approaches of GPS and Cell ID fail to provide a good experience indoors so alternative location positioning schemes need to be utilised These applications claim to be truly ubiquitous however whether they are social applications commerce advertising gaming or entertainment applications they still tend to engulf the user in computing process for example if we consider location based or mobile mixed reality gaming it becomes clear that although location plays a part in the game play actual user interaction with the localised environment is often limited The work presented in this thesis explores the utilisation of implied location technologies to bridge the gap left by the current applications In particular it investigates the use of Bluetooth and NFC in to locate the mobile user The approach taken by this research is to look at utilisation of implied location technologies across a range of applications and services through real world experimentation In particular their effectiveness has been researched in relation to three areas considered likely to benefit most from location based information mobile advertising mixed reality gaming and mobile social applications Work carried out on providing location based advertising for existing mobile users via Bluetooth has shown that implied location technologies can be very useful to improve the diminishing response to mobile advertising Mixed reality game Pac-Lan demonstrates that NFC can not only be utilised as an implied location positioning scheme but also for improving user interaction with the real world It has also shown that effective user interaction with physical objects can be achieved through NFC resulting in an enhanced user experience Results presented within have also shown that implied location positioning schemes are effective in mixed reality gaming context and can lead to interesting tactics developing over subsequent game play From a mobile social application perspective the work presented here shows that through use of NFC social inclusion can be achieved at both individual and group level Moreover utilising NFC for mobile social applications can help achieve a symbiosis between user device and environment where interaction space is not simply the space where interaction amongst users takes place but is an integral part of the experience

Mobile SmartLife via Sensing, Localization, and Cloud

Ecosystems Kaikai Liu,Xiaolin Li,2017-12-06 Indoor location is one of the two most important contexts time and location becoming a key entry for mobile Internet This book envisions potential indoor location applications overviews the related state of the art technologies and presents original patented techniques and open source prototype systems The tutorial and sample code are provided as a good reference and starting point for readers who are interested in the technique detail

Location, Localization, and Localizability Yunhao Liu,Zheng Yang,2024-07-11 Time flies since the debut of this book In the past ten years localization technology has evolved from small saplings into towering trees Robots and drones with autonomous positioning and navigation capabilities once considered unreachable fantasies have gradually become a reality However while we are being amazed at the groundbreaking changes brought about by technology as researchers we still need to remain acutely attentive to the current limitations of localization Some significant challenges still impede the widespread deployment For example traditional Wi Fi fingerprint based wireless localization due to various challenges in fingerprint database collection and maintenance has remained stay in the laboratory and even when using smartphones for localization in malls we still cannot achieve the outdoor GPS like experience The list goes on and on Against this backdrop the reissue of this book aims to more comprehensively reflect the latest developments in localization technology We have added introductions to emerging technologies such as passive high precision localization based on wireless signal CSI and autonomous localization for smart devices Additionally we have integrated and further streamlined technical chapters that now appear outdated adapting to the pace of the times This book aims to provide a comprehensive and in depth view of location awareness technology in today s popular wireless networks However the obvious diversity of networks from short range Bluetooth to long range telecommunication networks makes it very challenging to organize materials Although general principles exist the implementation differs from network to network and application to application The book can serve as a guidebook for the technicians and practitioners in the industry of location systems They can expect to obtain a comprehensive understanding of the field in order to compare and select localization solutions fulfilling various application requirements Abundant references in the book open up a broader domain for advanced study In addition the book is tailored toward a textbook for college researchers and graduate students

Mobile Positioning and Tracking João

Figueiras,Simone Frattasi,2011-07-05 This book presents the most recent state of the art in mobile positioning and tracking techniques This book discusses mobile positioning solutions applied on top of current wireless communication networks In addition the authors introduce advanced and novel topics such as localization in heterogeneous and cooperative networks providing a unified treatment of the topic for researchers and industry professionals alike Furthermore the book focuses on application areas of positioning basics of wireless communications for positioning data fusion and filtering techniques fundamentals of tracking error mitigation techniques positioning systems and technologies and cooperative mobile positioning systems Key Features Covers the state of the art of satellite and terrestrial based positioning systems spanning

from outdoor to indoor environments and from wide area networks to short range networks Discusses a whole range of topics related to mobile positioning from fundamentals of positioning to the description of a wide spectrum of mobility models for tracking from details on data fusion and filtering techniques to error mitigation techniques including aspects of signal processing Provides a solid bridge between research and industry envisaging a potential implementation of the presented solutions Fills the gap between positioning and communication systems showing how features of communication systems can be used for positioning purposes and how the retrieved location information can be used to enhance the performance of wireless networks Includes an accompanying website This book will be a valuable guide for advanced students studying related courses Professionals and practitioners in the field of positioning and mobile technologies and software and service developers will also find this book of interest

Positioning Using Terrestrial Wireless Systems Bogdan Pricope, 2013

The Global Positioning System GPS is a satellite based location system which is widely used for location determination navigation and time synchronization Because GPS signals are transmitted at relatively low power levels and over great distances the received GPS signal is relatively weak Moreover inside buildings or in urban canyons the GPS signals are further attenuated by walls roofs and other objects Thus the reception of GPS signals is not reliable in indoor or obstructed environments An accurate and reliable indoor positioning system is critical to provide navigation support to first responders in emergency scenarios as well as to minimize the rescue time of injured personnel Moreover Location Based Services LBS drive the development of indoor positioning techniques mainly due to the need to provide service continuity inside buildings Location based services are typically used with mobile devices in pedestrian mode for applications such as locationbased advertising people or pet tracking and friend finder functionality All these applications require continuous seamless and ubiquitous positioning which GPS is not capable of delivering In the last ten years several techniques have been proposed to solve the problem of indoor positioning Some depend on the presence of a known network of base stations such as Wireless Local Area Networks WLANs access points Bluetooth nodes or digital television towers Other short range technologies depend on specialized transceivers specifically designed for positioning e.g. GPS pseudolites and repeaters active Radio Frequency Identification RFID or Ultra Wide Band UWB However no single positioning technology is able to provide high availability and precision For this reason the trend is toward hybrid solutions i.e. the combination of different positioning methods The seamless cooperation between different technologies is required in order to provide location capability whenever a clear view of the sky is obstructed While dead reckoning is not a standalone positioning technology it needs a known start reference position it is the most promising option when other infrastructure based solutions such as GPS are not available The principle of operation is based on the ability to accurately measure the velocity vector i.e. both the amplitude speed and direction starting from a known reference point An accurate starting point can be assumed from a standalone positioning technology such as GPS and the direction of movement can also be obtained with delay using a combination of magnetometers and

gyroscopes In order to determine the walking speed and thus the displacement compared to the reference position accelerometers together with statistical models of the human walk are used to detect steps and to estimate the step length However these step length estimators require user calibration and fail in practice when the user is moving with an irregular posture like crawling sliding on a slippery surface using the fast walking lane in an airport riding a bicycle or skateboarding This dissertation proposes a novel speed estimation method for pedestrian dead reckoning which is based on the coherence time of wideband terrestrial wireless systems In the proposed method the coherence time is dened as the time required for the envelope correlation coefficient of a wideband frequency selective channel frequency response vector to drop below a certain threshold value The effect of the several channel propagation conditions such as signal to noise ratio the direction of arrival of the line of sight component and Rician factor is investigated on the performance of the proposed method Moreover a proof of concept hardware demonstrator is realized and several experimental measurement campaigns are conducted to verify the performance of the proposed algorithm under real world indoor conditions Experimental results indicate that speed estimation errors lead to an average positioning uncertainty of 1.1% of the total traveled distance with a standard deviation of 2.4% from the average Moreover there is a probability of 97% that the absolute positioning uncertainty will be less than 4.5% of the traveled distance It is demonstrated that the proposed speed estimation method outperforms traditional pedestrian dead reckoning systems which are based on step length estimators In addition the proposed algorithm does not require user calibration and it is not based on a particular type of movement because it solely measures the absolute speed of the moving antenna

Mobile Entity Localization and Tracking in GPS-less Environments, 2009

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