

Indoor Positioning Systems based on BLE Beacons



Indoor Wifi Positioning System For Android Based Smartphone

**Pei Long Xu,Hong Zong Si,Yi Qian
Wang,Pin Wang**



Indoor Wifi Positioning System For Android Based Smartphone:

China Satellite Navigation Conference (CSNC 2021) Proceedings Changfeng Yang, Jun Xie, 2021-06-10 China Satellite Navigation Conference CSNC 2021 Proceedings presents selected research papers from CSNC 2021 held during 22nd 25th May 2021 in Nanchang China 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 10 topics to match the corresponding sessions in CSNC2021 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 **Signal and Information Processing, Networking and Computers** Songlin Sun, Na Chen, Tao Tian, 2017-12-16 This proceedings book presents the latest research in the fields of information theory communication system computer science and signal processing as well as other related technologies Collecting selected papers from the 3rd Conference on Signal and Information Processing Networking and Computers ICSINC held in Chongqing China on September 13 15 2017 it is of interest to professionals from academia and industry alike **Computational Science and Technology** Rayner Alfred, Yuto Lim, Ag Asri Ag Ibrahim, Patricia Anthony, 2018-08-27 This book features the proceedings of the Fifth International Conference on Computational Science and Technology 2018 ICCST2018 held in Kota Kinabalu Malaysia on 29 30 August 2018 Of interest to practitioners and researchers it presents exciting advances in computational techniques and solutions in this area It also identifies emerging issues to help shape future research directions and enable industrial users to apply cutting edge large scale and high performance computational methods **Energy Science and Applied Technology** Zhigang Fang, 2015-11-17 Energy Science and Applied Technology includes contributions on a wide range of topics Technologies in geology mining oil and gas exploration and exploitation of deposits Energy transfer and conversion materials and chemical technologies Environmental engineering and sustainable development Electrical and electronic technology power system **Game + Design Education** Özge Cordan, Demet Arslan Dinçay, Çağıl Yurdakul Toker, Elif Belkıs Öksüz, Sena Semizoğlu, 2021-07-19 This book gathers the papers of the PUDCAD Universal Design Practice Conference Game Design Education organized by Istanbul Technical University and held online on June 24 26 2020 The conference represented one of the key events of the Practicing Universal Design Principles in Design Education through a CAD Based Game PUDCAD project which developed a design game on a CAD based platform enabling students and designers to learn about universal design principles and develop accessible and innovative design ideas As such the PUDCAD project met one of the foremost goals of the European Commission making sure the inclusion and efficient accessibility for people with disabilities into everyday life The main topics of the conference include universal design and education universal design and user experience game and design studies gamification virtual reality experiment e learning in design and playful spaces and interfaces The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel

research directions and foster multidisciplinary collaboration among different specialists

HCI International 2021 - Posters Constantine Stephanidis, Margherita Antona, Stavroula Ntoa, 2021-07-03 The three volume set CCIS 1419 CCIS 1420 and CCIS 1421 contains the extended abstracts of the posters presented during the 23rd International Conference on Human Computer Interaction HCII 2021 which was held virtually in July 2021 The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions The posters presented in these three volumes are organized in topical sections as follows Part I HCI theory and methods perceptual cognitive and psychophysiological aspects of interaction designing for children designing for older people design case studies dimensions of user experience information language culture and media Part II interaction methods and techniques eye tracking and facial expressions recognition human robot interaction virtual augmented and mixed reality security and privacy issues in HCI AI and machine learning in HCI Part III interacting and learning interacting and playing interacting and driving digital wellbeing eHealth and mHealth interacting and shopping HCI safety and sustainability HCI in the time of pandemic

Advances in AI for Biomedical Instrumentation, Electronics and Computing Vibhav Sachan, Shahid Malik, Ruchita Gautam, Parvin Kumar, 2024-06-13 This book contains the proceedings of 5th International Conference on Advances in AI for Biomedical Instrumentation Electronics and Computing ICABEC 2023 which provided an international forum for the exchange of ideas among researchers students academicians and practitioners It presents original research papers on subjects of AI Biomedical Communications Computing Systems Some interesting topics it covers are enhancing air quality prediction using machine learning optimization of leakage power consumption using hybrid techniques multi robot path planning in complex industrial dynamic environment enhancing prediction accuracy of earthquake using machine learning algorithms and advanced machine learning models for accurate cancer diagnostics Containing work presented by a diverse range of researchers this book will be of interest to students and researchers in the fields of Electronics and Communication Engineering Computer Science Engineering Information Technology Electrical Engineering Electronics and Instrumentation Engineering Computer applications and all interdisciplinary streams of Engineering Sciences

Progress in Applied Sciences, Engineering and Technology Pei Long Xu, Hong Zong Si, Yi Qian Wang, Pin Wang, 2014-05-23 Selected peer reviewed papers from the 2014 International Conference on Materials Science and Computational Engineering ICMSCE 2014 May 20 21 2014 Qingdao China

Smartphone-based Indoor Positioning Using Wi-Fi, Inertial Sensors and Bluetooth Viet-Cuong Ta, 2017 With the popularity of smartphones and tablets in daily life the task of finding user's position through their phone gains much attention from both the research and industry communities Technologies integrated in smartphones such as GPS Wi-Fi Bluetooth and camera are all capable for building a positioning system Among those technologies GPS has approaches have become a standard and achieved much success for the outdoor environment Meanwhile Wi-Fi inertial sensors and Bluetooth are more preferred for positioning task in indoor environment For smartphone positioning Wi-Fi

fingerprinting based approaches are well established within the field. Generally speaking, the approaches attempt to learn the mapping function from Wi-Fi signal characteristics to the real world position. They usually require a good amount of data for finding a good mapping. When the available training data is limited, the fingerprinting based approach has high errors and becomes less stable. In our works, we want to explore different approaches of Wi-Fi fingerprinting methods for dealing with a lacking in training data. Based on the performance of the individual approaches, several ensemble strategies are proposed to improve the overall positioning performance. All the proposed methods are tested against a published dataset which is used as the competition data of the IPIN 2016 Conference with offsite track track 3. Besides the positioning system based on Wi-Fi technology, the smartphone's inertial sensors are also useful for the tracking task. The three types of sensors which are accelerate, gyroscope, and magnetic can be employed to create a Step And Heading (SHS) system. Several methods are tested in our approaches. The number of steps and user's moving distance are calculated from the accelerometer data. The user's heading is calculated from the three types of data with three methods including rotation matrix, Complimentary Filter, and Madgwick Filter. It is reasonable to combine SHS outputs with the outputs from Wi-Fi, due to both technologies are present in the smartphone. Two combination approaches are tested. The first approach is to use directly the Wi-Fi outputs as pivot points for fixing the SHS tracking part. In the second approach, we rely on the Wi-Fi signal to build an observation model which is then integrated into the particle filter approximation step. The combining paths have a significant improvement from the SHS tracking only and the Wi-Fi only. Although SHS tracking with Wi-Fi fingerprinting improvement achieves promising results, it has a number of limitations such as requiring additional sensors, calibration efforts, and restriction on smartphone handling positions. In the context of multiple users, Bluetooth technology on the smartphone could provide the approximated distance between users. The relative distance is calculated from the Bluetooth inquiry process. It is then used to improve the output from Wi-Fi positioning models. We study two different combination methods. The first method aims to build an error function which is possible to model the noise in the Wi-Fi output and Bluetooth approximated distance for each specific time interval. It ignores the temporal relationship between successive Wi-Fi outputs. Position adjustments are then computed by minimizing the error function. The second method considers the temporal relationship and the movement constraint when the user moves around the area. The tracking step are carried out by using particle filter. The observation model of the particle filter are a combination between the Wi-Fi data and Bluetooth data. Both approaches are tested against real data which include up to four different users moving in an office environment. While the first approach is only applicable in some specific scenarios, the second approach has a significant improvement from the position output based on Wi-Fi fingerprinting model only.

A Cost-effective Wi-fi Based Indoor Positioning System for Mobile Phones Richard J. Wandell, 2018

Fingerprinting based Indoor Positioning Systems require a significant amount of time to set up due to the need for signal map creation. We propose a Wi-Fi based mobile phone Indoor Positioning System that can be set up in a short amount of time in any environment with

existing Wi-Fi infrastructure. We introduce interpolation into a fingerprinting-based system to reduce the number of reference points needed, leading to a reduction in signal map creation time. The proposed interpolation method is used in conjunction with a particle filter algorithm to provide an accuracy level comparable to the current state of the art. We create signal maps at three separate locations using a 100%, 50%, 20%, and 10% scan in order to evaluate the effectiveness of our interpolation on the localization error on a lower scan percentage. We evaluated our signal maps before and after interpolation using 16 tests which include both walking and stationary tests as well as tests taken two and three weeks after the initial data gathering. We show that interpolation is able to reduce the effects of a dimensional mismatch between signal map reference point vectors and a test sample vector as well as reduce the effects of signal map aging.

A Mobile-phone Based Indoor WiFi Positioning System Haibin Guo, Hong Kong Polytechnic University. Faculty of Construction and Environment, 2014

CompTIA Security+ All-in-One Exam Guide, Fourth Edition (Exam SY0-401) Wm. Arthur Conklin, Greg White, Dwayne Williams, Chuck Cothren, Roger L. Davis, 2014-12-16. Get complete coverage of all objectives included on the latest release of the CompTIA Security exam from this comprehensive resource. Cowritten by leading information security experts, this authoritative guide fully addresses the skills required for securing a network and managing risk. You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. Designed to help you pass the CompTIA Security exam SY0-401, this definitive volume also serves as an essential on-the-job reference. **COVERS ALL EXAM DOMAINS INCLUDING Network security, Compliance and operational security, Threats and vulnerabilities, Application data and host security, Access control and identity management, Cryptography.** **ELECTRONIC CONTENT INCLUDES 200 practice exam questions.** Test engine that provides practice exams or quizzes that can be customized by chapter or exam objective.

A Wi-Fi-based Indoor Positioning System for Smartphones (Y5Way) Ka-wai Wong, City University of Hong Kong. Run Run Shaw Library, City University of Hong Kong. Department of Computer Science, 2013

A 3D Ubiquitous Multi-Platform Localization and Tracking System for Smartphone Seyyed Mahmood Jafari Sadeghi, 2017. We have designed and implemented an indoor/outdoor localization system utilizing several sources of information to provide the accurate location of a smartphone/tablet both indoors and outdoors. In this system, we merge the traditional indoor localization techniques based on Wi-Fi fingerprinting with the recent methods which are mostly based on Bluetooth Low Energy (BLE) beacons to acquire a higher accuracy of positioning and also support a wider range of smartphones such as Android and iOS devices. A new format for the advertisement packets of BLE beacons was proposed which embeds all parameters of the beacon including its location. Also, a transparent scheme is proposed and implemented which combines indoor localization techniques with Global Positioning System (GPS) to increase the accuracy of the indoor localization and also provides us with a soft switching between the GPS and indoor positioning. We have shown that using a Medium Access Control (MAC) filtering method, we can reduce the size of Wi-Fi radiomap for fingerprinting techniques and

hence reduce their complexity and run time The problem of tracking and floor detection is also investigated and promising results are achieved by using the sensors such as barometer and gyroscope We have also addressed the problem of large scale indoor positioning in which we have the fingerprinting database for thousands of buildings worldwide Efficient algorithms have been proposed to reduce the complexity and the management overhead of the Wi Fi fingerprints A cooperative method was proposed that allows iOS devices through BLE packets broadcast by Android phones tablets to localize themselves using Wi Fi fingerprints inside a building Finally a sensor transmission system for Android devices was built which allows us to simulate our algorithms in real time using real world data on a PC running Matlab software

Principles of Computer Security, Fourth Edition Wm. Arthur Conklin, Greg White, Chuck Cothren, Roger L. Davis, Dwayne Williams, 2016-01-01 Written by leading information security educators this fully revised full color computer security textbook covers CompTIA s fastest growing credential CompTIA Security Principles of Computer Security Fourth Edition is a student tested introductory computer security textbook that provides comprehensive coverage of computer and network security fundamentals in an engaging and dynamic full color design In addition to teaching key computer security concepts the textbook also fully prepares you for CompTIA Security exam SY0 401 with 100% coverage of all exam objectives Each chapter begins with a list of topics to be covered and features sidebar exam and tech tips a chapter summary and an end of chapter assessment section that includes key term multiple choice and essay quizzes as well as lab projects Electronic content includes CompTIA Security practice exam questions and a PDF copy of the book Key features CompTIA Approved Quality Content CAQC Electronic content features two simulated practice exams in the Total Tester exam engine and a PDF eBook Supplemented by Principles of Computer Security Lab Manual Fourth Edition available separately White and Conklin are two of the most well respected computer security educators in higher education Instructor resource materials for adopting instructors include Instructor Manual PowerPoint slides featuring artwork from the book and a test bank of questions for use as quizzes or exams Answers to the end of chapter sections are not included in the book and are only available to adopting instructors Learn how to Ensure operational organizational and physical security Use cryptography and public key infrastructures PKIs Secure remote access wireless networks and virtual private networks VPNs Authenticate users and lock down mobile devices Harden network devices operating systems and applications Prevent network attacks such as denial of service spoofing hijacking and password guessing Combat viruses worms Trojan horses and rootkits Manage e mail instant messaging and web security Explore secure software development requirements Implement disaster recovery and business continuity measures Handle computer forensics and incident response Understand legal ethical and privacy issues

Travel & Leisure ,2009 **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

Motion Assisted Indoor Smartphone Positioning in Sparse Wi-Fi Environments Wasiq Waqar,2013 *WiFiPoz -- an Accurate Indoor Positioning System* Xiaoyi Ye,2012 Location based services are becoming an important part of life Wide adoption of GPS in mobile devices combined with cellular networks has practically solved the problem of outdoor localization needs The problem of locating an indoor user has being studied only recently Much research contributed to the innovative concept of an indoor positioning system By analyzing different technologies and algorithms this thesis concluded that considering a trade off between accuracy and cost a Wi Fi based Fingerprint method is proved to be the most promising approach to determine the location of a mobile device However the Fingerprint method works in two phases an offline training phase collection of Received Signal Strength signatures and an online phase in which data from the first phase is used to determine the current position of a mobile user The number of training points in a certain area has a direct impact on the accuracy of the system As a result the offline phase is a tedious and cumbersome process and the positioning systems are only as accurate as the offline training phase has been detailed Moreover the offline phase must be repeated every time a change in the environment occurs To avoid these limitations we focus on improving the accuracy of the indoor positioning system without increasing the number of training points This thesis presents a Wi Fi based system for locating a user inside a building The system is named WiFiPoz which means Wi Fi positioning system based on the zoning method WiFiPoz has a novel approach to Fingerprint method that incorporates Propagation and zoning methods Experimental results show that WiFiPoz is highly efficient both in accuracy and costs Compared to traditional Fingerprint methods with the optimization of the accuracy of the location estimation WiFiPoz reduces the number of training points This feature makes it possible to quickly adapt to changes in the environment In order to explore another possible solution this thesis also developed implemented and tested an indoor positioning system named GIS Geometric Information based positioning System which is based on a model proposed by another researcher Several experiments were run in the offline phase and results were compared between the traditional Fingerprint method GIS and proposed WiFiPoz We concluded that WiFiPoz is a more efficient and simple way to increase the accuracy of the location determination with fewer training points Document

Smartphone-Based 3D Indoor Localization and Navigation Frank Ebner,2021-01-10 During the last century navigation systems have become ubiquitous and guide drivers cyclists and pedestrians towards their desired destinations While operating worldwide they rely on line of sight conditions towards satellites and are thus limited to outdoor areas However finding a gate within an airport a ward within a hospital or a university s auditorium also represent navigation problems To provide navigation within such indoor environments new approaches are required This thesis examines pedestrian 3D indoor localization and navigation using

commodity smartphones A desirable target platform always at hand and equipped with a multitude of sensors The IMU accelerometer gyroscope magnetometer and barometer allow for pedestrian dead reckoning that is estimating relative location changes Absolute whereabouts can be determined via Wi Fi an infrastructure present within most public buildings or by using Bluetooth Low Energy Beacons as inexpensive supplement The building s 3D floorplan not only enables navigation but also increases accuracy by preventing impossible movements and serves as a visual reference for the pedestrian All aforementioned information is fused by recursive density estimation based on a particle filter The conducted experiments cover both theoretical backgrounds and real world use cases All discussed approaches utilize the infrastructure found within most public buildings are easy to set up and maintain Overall this thesis results in an indoor localization and navigation system that can be easily deployed without requiring any special hardware components

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