

## Decimeter Level Localization With A Single Wifi Access Point

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### Decimeter Level Localization With A

SpotFi: Decimeter Level Localization Using Wifi Manikanta Kotaru, Kiran Joshi, Dinesh Bharadia, Sachin Katti Stanford University Stanford, CA, USA {mkotaru, krjoshi, dineshb, skatti}@stanford.edu ABSTRACT This paper presents the design and implementation of SpotFi, an accurate indoor localization system that can be deployed

### SpotFi: Decimeter Level Localization Using Wifi

"Large-Scale Decimeter-Level Indoor Tracking with a Single AP'", West Anhui University, Lu'an, China, 2020/12 (virtual) "Precise Passive Tracking with COTS WiFi", The George Washington University, DC, USA, May 23, 2018 "WiFi Radar: Wireless Sensing with Commodity WiFi", University of Maryland, College Park, MD, USA, October 31, 2017

### csuw.me - Chenshu Wu - AIoT Research at HKU

CoNEXT '17 AWL: Turning Spatial Aliasing From Foe to Friend for Decimeter-Level WiFi Localization. Zhe Chen, Zhongmin Li, Xu Zhang, Guorong Zhu, Yuedong, Xu, Jie Xiong, Xin Wang. ACM CoNEXT 2017, Dec 2017.

### [ Jie Xiong @ UMass\_Amherst ]

Wi-Fi positioning system (WPS, also abbreviated as WiPS or WFPS) is a geolocation system that uses the characteristics of nearby Wi-Fi hotspots and other wireless access points to discover where a device is located.. It is used where satellite navigation such as GPS is inadequate due to various causes including multipath and signal blockage indoors, or where acquiring a satellite fix would ...

### Wi-Fi positioning system - Wikipedia

Decimeter-Level Localization with a Single WiFi , Access Point, Deepak Vasisht, Swarun Kumar and Dina Katabi, NSDI 2016 TEACHING. 18-213/613 (Computer Systems), Fall 2021 18-441/741 (Computer Networks), Spring 2018-21 18-859G (Wireless Networks and Mobile Systems -- DARPA SC2 Edition), Fall 2017-19 18-345 (Intro to Telecommunication Networks ...

### Swarun Kumar, Associate Professor, CMU

Multipath Triangulation: Decimeter-level WiFi Localization and Orientation with a Single Unaided Receiver. ACM MobiSys 2018. Qingqing Tan, Chong Han, Lijuan Sun, Jian Guo, and Hai Zhu. A CSI Frequency Domain Fingerprint-Based Method for Passive Indoor Human Detection. IEEE TrustCom/BigDataSE 2018. Zhou Tao-Yun, Lian Bao-Wang, Zhang Yi, and Liu Sen.

### Linux 802.11n CSI Tool - GitHub Pages

ACM SIGCOMM 2015, SpotFi: Decimeter Level Localization using WiFi – ACM SIGCOMM 2015, BackFi: High Throughput WiFi Backscatter – USENIX NSDI 2015, WiDeo: Fine Grained Device-Free Motion Tracing using RF Backscatter –

### Home Page of Sachin Katti - Stanford University

[2021/8] Extended version of Widar3.0 got accepted by IEEE TPAMI (IF: 16.39)! [2021/5] Deep learning-based gesture recognition model is available in Widar3 dataset! Stay tuned. [2021/3] Gait recognition dataset is available in Widar3 dataset! Stay tuned. [2021/2] Extended version of GaitID: GaitSense got accepted by ACM TOSN! [2021/1] Our dataset is available on IEEE DataPort!

### Widar3.0 - Tsinghua University

Atheros CSI tool. Atheros-CSI-Tool is an open source 802.11n measurement and experimentation tool. It enables extraction of detailed PHY wireless communication information from the Atheros WiFi NICs, including the Channel State Information (CSI), the received packet payload, and other additional information (the time stamp, the RSSI of each antenna, the data rate, etc.).

### Atheros CSI tool - WANDS

It is expected that a fusion of GNSS and 5G can provide decimeter level positioning accuracies in such scenarios, making it easier to maneuver drones. One example where drone localization would be necessary is in the assistance of first responders on a disaster site. Drones could be used as temporary base station deployed when the disaster site ...

### 5G positioning: What you need to know - Ericsson

[1] From RSSI to CSI: Indoor Localization via Channel State Information [2] Localization Through Wireless Access Point Channel State Information [3] PinLoc: Spot Localization using PHY Layer Information [4] SpotFi: Decimeter Level Localization Using WiFi [5] Splicer: Precise Power Delay Profiling with Commodity WiFi

### WiFi CSI -

These proceedings feature the latest theoretical results and techniques in the field of GNC of vehicles and aircraft. It covers a range of topics, including, but not limited to, intelligent computing communication and control, sensor systems for guidance, navigation and control.

### Advances in Guidance, Navigation and Control | SpringerLink

Increasingly, Automakers, Tier 1 suppliers and Platform enablers are using this in order to enhance their products in collaboration with advanced automotive sensors. The decade of the 2020s promises to be the first decade of decimeter level localization.

### Angelos Lakrintis - Industry Analyst - Strategy Analytics ...

Location, Localization, and Localizability - Location-awareness Technology for Wireless Networks Yunhao Liu and Zheng Yang 1st Edition, Springer, Berlin, 2011. ISBN: 978-1-4419-7370-2. 2011 ISBN: 978-7-03-029253-7 2013 ISBN: 978-7-03-037257-4 2017 ISBN: 978-7-03-051685-5

### Edge - Tsinghua University

Therefore, we introduce EdgeSharing, a localization and object sharing system leveraging the resources of edge cloud platforms. EdgeSharing holds a real-time 3D feature map of its coverage region to provide accurate localization and object sharing service to the client devices passing through this region.

### IEEE INFOCOM 2021

A hotspot is a physical location where people may obtain Internet access, typically using Wi-Fi technology, via a wireless local-area network (WLAN) using a router connected to an Internet service provider.. Public hotspots may be created by a business for use by customers, such as coffee shops or hotels. Public hotspots are typically created from wireless access points configured to provide ...

### Hotspot (Wi-Fi) - Wikipedia

Deep learning (DL) algorithms have seen a massive rise in popularity for remote-sensing image analysis over the past few years. In this study, the major DL concepts pertinent to remote-sensing are introduced, and more than 200 publications in this field, most of which were published during the last two years, are reviewed and analyzed.

### Deep learning in remote sensing applications: A meta ...

Kotaru M, Joshi K, Bharadia D, et al. SpotFi: Decimeter Level Localization Using Wi-Fi[J]. ACM Sigcomm Computer Communication Review, 2015, 45(4):269-282. [7] Wang W, Liu A X, Shahzad M, et al. Understanding and Modeling of Wi-Fi Signal Based Human Activity Recognition[C]// ACM MobiCom. ACM, 2015. [8] Qian K, Wu C S, Yang Z and et al. Widar ...

### CCCF - AIoT

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### LookMAYup

;KategProblem:cats: 50 words: 42069: 0\$, 1: 2:(1b-4b),(T,q),(for\_example\_490c),-10.3,3600,G0,RPE,RPM,VBE,ability,absence,absence,absorbance,abuttment,acceptability ...

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