

Liang CHEN Paper List

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1. Shen N, Chen L*, Wang L, Hu H, Lu X, Qian C, Liu J, Jin S, Chen R. Short-Term Landslide Displacement Detection Based on GNSS Real-Time Kinematic Positioning. *IEEE Transactions on Instrumentation and Measurement*. 2021; 70:1-14 doi:10.1109/TIM.2021.3055278.
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5. Jun Yan; Yiming Cao; Bin Kang; Xiaohuan Wu; **Liang Chen**. An ELM-Based Semi-Supervised Indoor Localization Technique With Clustering Analysis and Feature Extraction. *IEEE Sensors Journal* (IF 3.073). 2020,10(5) , DOI: 10.1109/jsen.2020.3028579
6. Yue Yu, Ruizhi Chen*, **Liang Chen**, Wei Li, Yuan Wu, Haitao Zhou. Precise 3D Indoor Localization Based on Wi-Fi FTM and Built-in Sensors. *IEEE Journal of Internet of Things*.
7. X. Zhou, **L. Chen**, J. Yan and R. Chen, "Accurate DOA Estimation With Adjacent Angle Power Difference for Indoor Localization," in *IEEE Access*, vol. 8, pp. 44702-44713, 2020.
8. Yuanjin Pan, Ruizhi Chen, Shuang Yi, Wei Wang, Hao Ding, Wenbin Shen, **Liang Chen**. Contemporary Mountain - Building of the Tianshan and its Relevance to Geodynamics Constrained by Integrating GPS and GRACE Measurements. *Journal of Geophysical Research: Solid Earth*
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10. Shen N, **Chen, L.*** Liu J, Wang L, Tao T, Wu Dewen, Lei Wang, Chen R. A Review of Global Navigation Satellite System (GNSS)-Based Dynamic Monitoring Technologies for Structural Health Monitoring. *Remote Sensing*. 2019; 11(9):1001.
11. Yue Yu, Ruizhi Chen*, **Liang Chen**, Guangyi Guo, Feng Ye and Zuoya Liu. A Robust Dead Reckoning Algorithm Based on Wi-Fi FTM and Multiple Sensors. *Remote Sens.* 2019, 11(5), 504-526; doi:10.3390/rs11050504.
12. Yan, J.; Zhu, B.; **Chen, L.***; Wang, J.; Liu, J. Error Analysis on Indoor Localization with Visible Light Communication. *Remote Sensing*, 2019,11 (4), 427-444. doi:10.3390/rs11040427.
13. Guo, G.; Chen, R.; Ye, F.; **Chen, L.**; Pan, Y.; Liu, M.; Cao, Z. A Pose Awareness Solution for Estimating Pedestrian Walking Speed. *Remote Sens.* 2019, 11, 55. doi:10.3390/rs11010055.

- 14. Liang Chen***, Olivier Julien, Elena-Simona Lohan, Gonzalo Seco-Granados, and Ruizhi Chen. Mobile Geospatial Computing Systems for Ubiquitous Positioning. Mobile Information Systems Volume 2018, Article ID 9138095, pp. 1-2, 2018.
- 15.** Jun Yan, Lin Zhao, Jian Tang, Yuwei Chen, Ruizhi Chen, **Liang Chen***. Hybrid Kernel Based Machine Learning Using Received Signal Strength Measurements for Indoor Localization. IEEE Transactions on Vehicular Technology, 2018, 67(3): 2824 – 2829, DOI: 10.1109/TVT.2017.2774103
- 16.** Xinlian Liang, Juha Hyyppä, Harri Kaartinen, **Liang Chen** et al. International benchmarking of terrestrial laser scanning approaches for forest inventories, ISPRS Journal of Photogrammetry and Remote Sensing, vol. 144, October 2018, pp. 137-179. DOI: 10.1016/j.isprsjprs.2018.06.021
- 17.** Dewen Wu, Ruizhi Chen*, **Liang Chen**. Visual Positioning Indoors: Human Eyes vs. Smartphone Cameras, MDPI Sensors, 2017, 17 (11), 2645
- 18.** **Liang Chen***, Lie-Liang Yang, Jun Yan, Ruizhi Chen. Joint Wireless Positioning and Emitter Identification in DVB-T Single Frequency Networks. IEEE Transactions on Broadcasting, 2017, vol. 63, no. 3, pp. 577-582, 2017.
- 19.** Jun Yan, Kegen Yu, Yangqin Cao, **Liang Chen***. Attack-Resistant Received Signal Strength based Compressive Sensing Wireless Localization. KSII Transactions on Internet and Information Systems, 2017, vol. 11, no. 9, pp. 4418-4437.
- 20.** **Liang Chen***, Sarang Thombre, Kimmo Jarvinen, Elena Simona Lohan, Anette Alen-Savikko, Helena Leppakoski, M. Zahidul H. Bhuiyan, Shakila Bu-Pasha, Giorgia Nunzia Ferrara, Salomon Honkala, Jenna Lindqvist, Laura Ruotsalainen, Paivi Korpisaari and Heidi Kuusniemi. Robustness, Security and Privacy in Location-Based Services for Future IoT: A Survey. IEEE Access, 2017, vol. 5, Issue 1, pp. 8956-8977, 2017.
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- 25.** **Liang Chen**, Ling Pei, Chen, Heidi Kuusniemi, Yuwei Chen, Tuomo Kröger and Ruizhi Chen. Bayesian Fusion for Indoor Positioning Using Bluetooth Fingerprints. Wireless Personal Communications, 2013, vol. 70, no. 4, pp. 1735—1745. (SCI:165EC, EI:20132416411147)
- 26.** **Liang Chen**, Simo Ali-Löytty, Robert Piche and Wu Lenan. Mobile tracking in mixed line-of-sight/non-line-of-sight conditions: algorithm and theoretical lower bound, Wireless Personal Communications, vol. 65, no. 4, pp. 753-771, 2012. (SCI:969rn, EI:20123215327708)

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- 31.** Wuyang Jiang, Ling Pei, Changqing Xu, **Liang Chen** and Wenxian Yu. Two-stage Localisation Scheme Using a Small-scale Linear Microphone Array for Indoor Environments. Journal of Navigation, 2015, vol. 68, no. 5, pp. 915-936. (SCI:CN6XN)
- 32.** Jian Tang, Yuwei Chen, **Liang Chen**, Jingbin Liu, Juha Hyypä, Antero Kukko, Harri Kaartinen, Hannu Hyypä and Ruizhi Chen. Fast SOP Fingerprint Database Maintenance for Indoor Positioning Based on UGV SLAM. Sensors, 2015, vol.15, pp.5311-5330. (SCI:CH6QK, EI:20151800813692)
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- 39.** Ling Pei, Jingbin Liu, Yuwei Chen, Ruizhi Chen and **Liang Chen**. Evaluation of fingerprinting-based WiFi indoor localization coexisted with Bluetooth. The Journal of Global Positioning Systems. December 2017, DOI: 10.1186/s41445-017-0008-x

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- 42.** Sarang Thombre, Robert Guineness, **Liang Chen** and Heidi Kuusniemi, et al. ESABALT Improvement of Situational Awareness in the Baltic with the Use of Crowdsourcing. *The International Journal on Marine Navigation and Safety of Sea Transportation*, 2015, vol. 9, no. 2, pp. 183-189.
- 43.** Zahidul H. Bhuiyan, Heidi Kuusniemi, **Liang Chen**, Ling Pei, Laura Ruotsalainen and Ruzhi Chen. Performance Evaluation of Multisensor Fusion Models in Indoor Navigation, *Journal of European Navigation*, vol. 11, no. 2, pp. 20-28, 2013.
- 44. Liang Chen**, Cheng Han wen and Wu Lenan. Modulation classification of MPSK signals based on nonparametric Bayesian inference, *Journal of Southeast University (English Version)*, vol. 25, no. 2, pp. 171-174, 2009. (EI: 20093212240947)

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- 46.** Yankun Wang, Renzhong Guo, Weixi Wang, You Li, Shengjun Tang, wei zhang, Xiaoming Li *, **Liang Chen**, Luyao Wang, Wenqun Xiu, Near Relation-Based Indoor Positioning Method Under Sparse Wi-Fi Fingerprints ISPRS International Journal of Geo-Information.
- 47.** Jun Yan, ...**Liang Chen**, Extremely Machine Learning, .IEEE Sensors Journal.
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- 51.** Heidi Kuusniemi, Chen Yuwei and **Liang Chen**. Multi-sensor Multi-network Positioning, in *Ubiquitous positioning and mobile location-based services in smart phones*, Ruizhi Chen eds. IGI Global Press, June, 2012, ISBN: 978-146-661827-5.
- 52.** Elena Simona Lohan, Anette Alén-Savikko, **Liang Chen**, Kimmo Järvinen, Helena Leppäkoski, Heidi Kuusniemi, Päivi Korpisaari. 5G positioning: security and privacy aspects, pp. 281-320, DOI:

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- 53.** Ruizhi Chen, **Liang Chen**. Smartphone-Based Indoor Positioning Technologies, [ISBN 978-981-15-8982-9, Shi et al (Eds.): Urban Informatics

Book

- 54.** 陈亮, 基于 OFDM 数字广播信号的无线定位关键技术研究, Golden Light Academic Publishing, 2016, ISBN: 978-3-639-82525-1, ISBN: 978-3-639-82525-1

Articles in Conference Proceedings

- 55.** Lei Wang, Ruizhi Chen, **Liang Chen**, Lili Shen, Peng Zhang, Yuanjin Pan and Ming Li* A Robust Filter for TOA Based Indoor Localization in Mixed LOS/NLOS Environment. *International Conference on Ubiquitous Positioning, Indoor Navigation and Location-Based Service (UPINLBS 2018)*, March 22-23, Wuhan, China. DOI:10.1109/UPINLBS.2018.8559862.
- 56.** Ming Li, Ruizhi Chen, Xuan Liao, Bingxuan Guo, **Liang Chen**, Jinbing Liu, Teng Wu, Lei Wang, Yuanjin Pan and Peng Zhang* A Real-time Indoor Visual Localization and Navigation Method Based on Tango Smartphone. *International Conference on Ubiquitous Positioning, Indoor Navigation and Location-Based Service (UPINLBS 2018)*, March 22-23, DOI:10.1109/UPINLBS.2018.8559720.
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- 69.** Yuwei Chen, Jian Tang, Juha Hyyppä, Markus Holopainen, **Liang Chen**, and Hannu Hyyppä. Automated Positioning Stem Location on Plot-wise Forest Inventory Using SLAM Technology *International Conference on Ubiquitous Positioning, Indoor Navigation and Location-Based Service (UPINLBS 2014)*, Nov. 20-21, Corpus Christi, Texas, USA.
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- 71.** Yuwei Chen, Jian Tang, Jingbin Liu, Juha Hyyppä, **Liang Chen**, etc. Environmental Features Based Indoor Positioning Using LiDAR-aided Multiple Sensors System for UGVs. *Proc. IEEE/ION Position Location and Navigation Symposium (PLANS 2014)*, May 5-8, 2014, California, U.S.A
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- 74.** **Liang Chen**, Simona Lohan, Olivier Julier, Paul Thevenon and Christophe Macabiau. Delay Estimation for DVB-T Signals in Adverse Multipath Scenarios. *Proc. of International Conference on Localization and GNSS (ICL-GNSS 2014)*, Jun. 24-26, Helsinki, Finland (**EI:20144900284630**)
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- 77.** Yuwei Chen, Jingbin Liu, Laura Ruotsalainen, **Liang Chen**, Tuomo Kroger, Heidi Kuusniemi, Ling Pei, Ruizhi Chen, Tomi Tenhunen and Yiwu Wang. Lane Detection based on a Visual-aided Multiple Sensors Platform. *2012 IEEE/ION Position Location and Navigation Symposium (PLANS 2012)*, April 23-26, 2012, Myrtle Beach, SC, USA **(EI: 20123815451097)**
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专 利:

授权专利:

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