Karl Woodbridge

List of Publications by Year in descending order

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104 papers 2,354 citations

257357 24 h-index 42 g-index

105 all docs

 $\begin{array}{c} 105 \\ \\ \text{docs citations} \end{array}$

105 times ranked 1265 citing authors

| # | Article | IF | CITATIONS |
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| 1 | On CSI and Passive Wi-Fi Radar for Opportunistic Physical Activity Recognition. IEEE Transactions on Wireless Communications, 2022, 21, 607-620. | 6.1 | 15 |
| 2 | SimHumalator: An Open-Source End-to-End Radar Simulator for Human Activity Recognition. IEEE Aerospace and Electronic Systems Magazine, 2022, 37, 6-22. | 2.3 | 17 |
| 3 | Using RF Transmissions From IoT Devices for Occupancy Detection and Activity Recognition. IEEE Sensors Journal, 2022, 22, 2484-2495. | 2.4 | 6 |
| 4 | Design of highâ€speed software defined radar with GPU accelerator. IET Radar, Sonar and Navigation, 2022, 16, 1083-1094. | 0.9 | 2 |
| 5 | Passive WiFi Radar for Human Sensing Using a Stand-Alone Access Point. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1986-1998. | 2.7 | 54 |
| 6 | GAN Based Noise Generation to Aid Activity Recognition when Augmenting Measured WiFi Radar Data with Simulations. , 2021, , . | | 10 |
| 7 | Respiration and Activity Detection Based on Passive Radio Sensing in Home Environments. IEEE Access, 2020, 8, 12426-12437. | 2.6 | 12 |
| 8 | Occupancy Detection and People Counting Using WiFi Passive Radar. , 2020, , . | | 24 |
| 9 | Physical Activity Sensing via Stand-Alone WiFi Device. , 2019, , . | | 9 |
| 10 | Doppler Based Detection of Multiple Targets in Passive Wi-Fi Radar Using Underdetermined Blind Source Separation. , 2018, , . | | 3 |
| 11 | Exploiting WiFi Channel State Information for Residential Healthcare Informatics. , 2018, 56, 130-137. | | 82 |
| 12 | A coherent through-wall MIMO phased array imaging radar based on time-duplexed switching. Proceedings of SPIE, 2017, , . | 0.8 | O |
| 13 | A low-cost through-the-wall FMCW radar for stand-off operation and activity detection. Proceedings of SPIE, 2017, , . | 0.8 | 13 |
| 14 | Joint fall and aspect angle recognition using fine-grained micro-Doppler classification. , 2017, , . | | 5 |
| 15 | Simultaneous data collection of small maritime targets using multistatic radar and forward scatter radar. IET Radar, Sonar and Navigation, 2017, 11, 937-945. | 0.9 | 1 |
| 16 | Passive WiFi Radar: A New Technology for Urban Area Surveillance. , 2017, , 345-358. | | 1 |
| 17 | NetRAD: Monostatic and Bistatic Sea Clutter Texture and Doppler Spectra Characterization at S-Band. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5533-5543. | 2.7 | 40 |
| 18 | Signs of life detection using wireless passive radar. , 2016, , . | | 21 |

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| 19 | Awireless passive radar system for real-time through-wall movement detection. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2596-2603. | 2.6 | 41 |
| 20 | Activity recognition based on micro-Doppler signature with in-home Wi-Fi., 2016, , . | | 31 |
| 21 | Train monitoring using GSM-R based passive radar. , 2016, , . | | 11 |
| 22 | Simultaneous data collection of small maritime targets using multistatic and forward scatter radar., $2015,$ | | 3 |
| 23 | Database design for an experimental, dual band, polarimetric radar. , 2015, , . | | 0 |
| 24 | Wi-Fi based passive human motion sensing for in-home healthcare applications. , 2015, , . | | 17 |
| 25 | Phased array radar resource management using continuous double auction. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2212-2224. | 2.6 | 47 |
| 26 | Indoor target tracking using high doppler resolution passive Wi-Fi radar. , 2015, , . | | 19 |
| 27 | Multistatic radar: System requirements and experimental validation. , 2014, , . | | 27 |
| 28 | Comparison between measurement and simulation of monostatic and bistatic sea clutter., 2014,,. | | 3 |
| 29 | Measurements and analysis of multistatic and multimodal micro-Doppler signatures for automatic target classification. , 2014 , , . | | 2 |
| 30 | A real-time high resolution passive WiFi Doppler-radar and its applications. , 2014, , . | | 48 |
| 31 | Analysis of bistatic sea clutter - Part I: Average reflectivity. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 1283-1292. | 2.6 | 27 |
| 32 | Analysis of bistatic sea clutter - Part II: Amplitude statistics. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 1293-1303. | 2.6 | 35 |
| 33 | Data processing for real-time wireless passive radar. , 2014, , . | | 7 |
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| 39 | Multiband passive bistatic DVB-T radar range resolution improvements and implications. , 2012, , . | | 8 |
| 40 | Passive bistatic radar experiments from an airborne platform. IEEE Aerospace and Electronic Systems Magazine, 2012, 27, 50-55. | 2.3 | 49 |
| 41 | Through-the-Wall Sensing of Personnel Using Passive Bistatic WiFi Radar at Standoff Distances. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1218-1226. | 2.7 | 185 |
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| 50 | Passive bistatic WiMAX radar for marine surveillance. , 2010, , . | | 39 |
| 51 | Multistatic micro-Doppler radar signatures of personnel targets. IET Signal Processing, 2010, 4, 224. | 0.9 | 56 |
| 52 | Bat-inspired ultrasound tomography in air. , 2010, , . | | 5 |
| 53 | Impact of flight trajectory on the detection and selection of flowers by nectar-feeding bats. , 2010, , . | | 2 |
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| 66 | Micro-Doppler Signature Classification. , 2006, , . | | 10 |
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