Tsung-Yen Chan

List of Publications by Year in descending order

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140
papers c

2,144 citations

³⁹⁴⁴²¹
19
h-index

302126 39 g-index

140 all docs 140 docs citations 140 times ranked 1719 citing authors

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Things in the air: tagging wearable IoT information on drone videos. Discover Internet of Things, 2021, 1, 1. | 4.8 | 17 |
| 2 | Enhanced scheduling schemes with energy conservation for dynamic point selection in cloud radio access networks. Wireless Networks, 2020, 26, 1519-1534. | 3.0 | 1 |
| 3 | Magnetic Field-Based Localization in Factories Using Neural Network With Robotic Sampling. IEEE Sensors Journal, 2020, 20, 13110-13118. | 4.7 | 18 |
| 4 | On Optimizing Signaling Efficiency of Retransmissions for Voice LTE. , 2020, , . | | O |
| 5 | Achieving Ultra Energy-efficient and Collision-free Data Collection in Wake-up Radio Enabled mIoT. , 2020, , . | | 2 |
| 6 | Fusing Multi-Sensory Data for Precision Indoor Localization. , 2020, , . | | 0 |
| 7 | Sensor-based Badminton Stroke Classification by Machine Learning Methods. , 2020, , . | | 4 |
| 8 | Who Takes What: Using RGB-D Camera and Inertial Sensor for Unmanned Monitor., 2019,,. | | 1 |
| 9 | Design and Implementation of Image Electronic Fence with 5G technology for Smart Farms. , 2019, , . | | 6 |
| 10 | Resolving Intra-Class Imbalance for GAN-Based Image Augmentation. , 2019, , . | | 3 |
| 11 | Enabling Identity-Aware Tracking via Fusion of Visual and Inertial Features. , 2019, , . | | 10 |
| 12 | Pedestrian Tracking by Acoustic Doppler Effects. IEEE Sensors Journal, 2019, 19, 3893-3901. | 4.7 | 9 |
| 13 | ID-Free Multigroup Cardinality Estimation for Massive RFID Tags in IoT., 2019,,. | | 1 |
| 14 | A Comprehensive Multisensor Dataset Employing RGBD Camera, Inertial Sensor and Web Camera. , 2019, , . | | 3 |
| 15 | Multi-Slot Allocation Protocols for Massive IoT Devices With Small-Size Uploading Data. IEEE Wireless Communications Letters, 2019, 8, 448-451. | 5.0 | 10 |
| 16 | How to Reduce Unexpected eMBMS Session Disconnection: Design and Performance Analysis. IEEE Wireless Communications Letters, 2018, 7, 126-129. | 5.0 | 2 |
| 17 | Efficient and Consistent Flow Update for Software Defined Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 411-421. | 14.0 | 14 |
| 18 | A Hint-Based Random Access Protocol for mMTC in 5G Mobile Network. , 2018, , . | | 0 |

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| 19 | Energy-Efficient Uplink Scheduling for Ultra-Reliable Communications in NB-IoT Networks. , 2018, , . | | 11 |
| 20 | Cooperative Sensing Data Collection and Distribution with Packet Collision Avoidance in Mobile Long-Thin Networks. Sensors, 2018, 18, 3588. | 3.8 | 9 |
| 21 | On Scalable Service Function Chaining with <tex> $\mbox{mathcal}\{O\}(1)$ \$</tex> Flowtable Entries. , 2018, , . | | 4 |
| 22 | Appliance Control by TDoA-based Localization and Gesture Recognition. , 2018, , . | | 2 |
| 23 | Eye on You: Fusing Gesture Data from Depth Camera and Inertial Sensors for Person Identification. , 2018, , . | | 13 |
| 24 | Wireless location tracking by a sensor-assisted particle filter and floor plans in a 2.5-D space. , 2018, , . | | 6 |
| 25 | Data offloading for dynamic point selection in cloud radio access networks (C-RAN). , 2018, , . | | 2 |
| 26 | Spatial and Temporal Aggregation for Small and Massive Transmissions in LTE-M Networks. , 2017, , . | | 0 |
| 27 | eHint: An Efficient Protocol for Uploading Small-Size IoT Data. , 2017, , . | | 10 |
| 28 | Energy-Efficient Dynamic Point Selection for Cloud Radio Access Networks (C-RAN)., 2017,,. | | 5 |
| 29 | Give me a hint: An ID-free small data transmission protocol for dense IoT devices. , 2017, , . | | 4 |
| 30 | The hint protocol: Using a broadcast method to enable ID-free data transmission for dense IoT devices. , $2017, \dots$ | | 6 |
| 31 | A Dynamic Hybrid Counting Procedure for eMBMS of 3GPP., 2017,,. | | 0 |
| 32 | Analyzing students' attention in class using wearable devices., 2017,,. | | 20 |
| 33 | Design and implement a mobile badminton stroke classification system. , 2017, , . | | 8 |
| 34 | Applying machine learning to head gesture recognition using wearables. , 2017, , . | | 6 |
| 35 | Flowtable-Free Routing for Data Center Networks: A Software-Defined Approach. , 2017, , . | | 6 |
| 36 | Qnalyzer: Queuing Recognition Using Accelerometer and Wi-Fi Signals. , 2017, , . | | 2 |

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| 37 | iToy: A LEGO-like solution for small scale IoT applications. , 2017, , . | | O |
| 38 | Parallel and local diagnostic algorithm for wireless sensor networks. , 2017, , . | | 2 |
| 39 | r-Hint: A message-efficient random access response for mMTC in 5G networks. , 2017, , . | | 3 |
| 40 | Constructing a 3D Multiple Mobile Medical Imaging System through Service Science, Management, Engineering and Design. Systems, 2017, 5, 5. | 2.3 | 2 |
| 41 | M2M Encountering: Collaborative Localization via Instant Inter-Particle Filter Data Fusion. IEEE Sensors Journal, 2016, 16, 5715-5724. | 4.7 | 16 |
| 42 | An adaptive Paris Metro Pricing scheme for mobile data networks. International Journal of Network Management, 2016, 26, 422-434. | 2.2 | 2 |
| 43 | BLE-based collaborative indoor localization with adaptive multi-lateration and mobile encountering. , 2016, , . | | 10 |
| 44 | Guest Editorial: Special Section on Emerging Topics in the Design of High Performance Internet Routers. IEEE Transactions on Emerging Topics in Computing, 2016, 4, 177-178. | 4.6 | 0 |
| 45 | Two-Phase Multicast DRX Scheduling for 3GPP LTE-Advanced Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1839-1849. | 5.8 | 10 |
| 46 | Inference of Conversation Partners by Cooperative Acoustic Sensing in Smartphone Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1387-1400. | 5.8 | 7 |
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| 48 | Demo abstract: A video-based metropolitan positioning system with centimeter-grade localization for VANETs. , 2015, , . | | 0 |
| 49 | A dynamic reservation scheme in online charging system for Family Shared Plan. , 2015, , . | | 0 |
| 50 | Discovering Phase Timing Information of Traffic Light Systems by Stop-Go Shockwaves. IEEE Transactions on Mobile Computing, 2015, 14, 58-71. | 5.8 | 16 |
| 51 | Optimal Path Planning With Spatial-Temporal Mobility Modeling for Individual-Based Emergency Guiding. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 1491-1501. | 9.3 | 23 |
| 52 | On common profile matching among multiparty users in mobile D2D social networks., 2014,,. | | 1 |
| 53 | Continuous Human Location and Posture Tracking by Multiple Depth Sensors. , 2014, , . | | 2 |
| 54 | Smarter IoT., 2014,,. | | 0 |

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| 55 | Self-Contained Localization without Auxiliary Signals on Smart Devices. , 2014, , . | | О |
| 56 | On local cache management strategies for Mobile Augmented Reality. , 2014, , . | | 5 |
| 57 | Distributed address assignment with address borrowing for ZigBee networks. , 2014, , . | | 1 |
| 58 | Improvements in dental care using a new mobile app with cloud services. Journal of the Formosan Medical Association, 2014, 113, 742-749. | 1.7 | 22 |
| 59 | Energyâ€conserving data gathering by mobile mules in a spatially separated wireless sensor network. Wireless Communications and Mobile Computing, 2013, 13, 1369-1385. | 1.2 | 8 |
| 60 | Enhanced cooperative access class barring and traffic adaptive radio resource management for M2M communications over LTE-A. , 2013, , . | | 18 |
| 61 | Deploying Sensors for Gravity Measurement in a Body-Area Inertial Sensor Network. IEEE Sensors Journal, 2013, 13, 1522-1533. | 4.7 | 6 |
| 62 | Design of a self-portrait application with sensor-assisted guiding for smart devices. , 2013, , . | | 1 |
| 63 | Energy-efficient DRX scheduling for multicast transmissions in 3GPP LTE-Advanced wireless networks. , 2013, , . | | 6 |
| 64 | Dynamic Traffic Control with Fairness and Throughput Optimization Using Vehicular Communications. IEEE Journal on Selected Areas in Communications, 2013, 31, 504-512. | 14.0 | 41 |
| 65 | Sleep scheduling in IEEE 802.16j relay networks. , 2013, , . | | 1 |
| 66 | A lane-level dynamic traffic control system for driving efficiency optimization based on vehicular networks. , 2013, , . | | 0 |
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| 68 | Automatic parameter selection for the ZigBee distributed address assignment mechanism. , 2013, , . | | 3 |
| 69 | Guest Editorial: Networking Challenges in Cloud Computing Systems and Applications. IEEE Journal on Selected Areas in Communications, 2013, 31, 2593-2595. | 14.0 | 1 |
| 70 | VirtualTouch: A finger glove to simulate touch screen commands. , 2012, , . | | 0 |
| 71 | LEGS: A Load-balancing Emergency Guiding System based on wireless sensor networks. , 2012, , . | | 8 |
| 72 | Using Rotatable and Directional (R&D) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application. IEEE Transactions on Mobile Computing, 2012, 11, 1358-1371. | 5.8 | 35 |

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| 73 | Evacuation Time Analysis and Optimization for Distributed Emergency Guiding Based on Wireless Sensor Networks. , 2012 , , . | | 12 |
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| 75 | A Path-Connected-Cluster Wireless Sensor Network and Its Formation, Addressing, and Routing Protocols. IEEE Sensors Journal, 2012, 12, 2135-2144. | 4.7 | 32 |
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| 77 | \$k\$-Angle Object Coverage Problem in a Wireless Sensor Network. IEEE Sensors Journal, 2012, 12, 3408-3416. | 4.7 | 30 |
| 78 | Pedestrian activity detection in a multi-floor environment by a smart phone., 2012,,. | | 1 |
| 79 | Efficient Packet Recovery Using Prioritized Network Coding in DVB-IPDC Systems. IEEE Communications Letters, 2012, 16, 382-385. | 4.1 | 4 |
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| 81 | Data Compression by Temporal and Spatial Correlations in a Body-Area Sensor Network: A Case Study in Pilates Motion Recognition. IEEE Transactions on Mobile Computing, 2011, 10, 1459-1472. | 5.8 | 47 |
| 82 | A Walking Velocity Update technique for pedestrian dead-reckoning applications. , $2011, \ldots$ | | 7 |
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| 84 | From barren to beautiful: A pattern-matching localization scheme integrating heterogeneous network data. , 2011 , , . | | 0 |
| 85 | Discriminant Minimization Search for Large-Scale RF-Based Localization Systems. IEEE Transactions on Mobile Computing, 2011, 10, 291-304. | 5.8 | 59 |
| 86 | A channel management protocol for multi-channel, single-radio 802.11-based wireless mesh networks. , 2011, , . | | 1 |
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| 88 | On Tile-and-Energy Allocation in OFDMA Broadband Wireless Networks. IEEE Communications Letters, 2011, 15, 1284-1287. | 4.1 | 1 |
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| 91 | On Optimization of Accelerometers Deployment for Human Posture Tracking., 2011,,. | | 2 |
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| 101 | An application of sensor networks with data mining to patient controlled analgesia. , 2010, , . | | 3 |
| 102 | Autonomous Light Control by Wireless Sensor and Actuator Networks. IEEE Sensors Journal, 2010, 10, 1029-1041. | 4.7 | 85 |
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| 136 | Visualization Design for Location-Aware Services. , 2006, , . | | 2 |
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| 138 | Fully power-aware and location-aware protocols for wireless multi-hop ad hoc networks., 0,,. | | 23 |
| 139 | A Fast Handoff Mechanism for IEEE 802.11 and IAPP Networks. , 0, , . | | 43 |
| 140 | Message-Efficient In-Network Location Management in a Multi-sink Wireless Sensor Network. , 0, , . | | 3 |