

Tsung-Yen Chan

List of Publications by Year in descending order

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140
papers

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	Efficient in-network moving object tracking in wireless sensor networks. IEEE Transactions on Mobile Computing, 2006, 5, 1044-1056.	5.8	190
2	Efficient Placement and Dispatch of Sensors in a Wireless Sensor Network. IEEE Transactions on Mobile Computing, 2008, 7, 262-274.	5.8	179
3	A WSN-Based Intelligent Light Control System Considering User Activities and Profiles. IEEE Sensors Journal, 2008, 8, 1710-1721.	4.7	151
4	Autonomous Light Control by Wireless Sensor and Actuator Networks. IEEE Sensors Journal, 2010, 10, 1029-1041.	4.7	85
5	Energy-Balanced Dispatch of Mobile Sensors in a Hybrid Wireless Sensor Network. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1836-1850.	5.6	83
6	The Orphan Problem in ZigBee Wireless Networks. IEEE Transactions on Mobile Computing, 2009, 8, 1573-1584.	5.8	74
7	A Scrambling Method for Fingerprint Positioning Based on Temporal Diversity and Spatial Dependency. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 678-684.	5.7	72
8	Discriminant Minimization Search for Large-Scale RF-Based Localization Systems. IEEE Transactions on Mobile Computing, 2011, 10, 291-304.	5.8	59
9	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
10	Address Assignment and Routing Schemes for ZigBee-Based Long-Thin Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	44
11	A Fast Handoff Mechanism for IEEE 802.11 and IAPP Networks. , 0, , .		43
12	Energy-efficient network selection with mobility pattern awareness in an integrated WiMAX and WiFi network. International Journal of Communication Systems, 2010, 23, 213-230.	2.5	42
13	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
14	An Infrastructure-less Framework for Preventing Rear-End Collisions by Vehicular Sensor Networks. IEEE Communications Letters, 2011, 15, 358-360.	4.1	37
15	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
16	A Path-Connected-Cluster Wireless Sensor Network and Its Formation, Addressing, and Routing Protocols. IEEE Sensors Journal, 2012, 12, 2135-2144.	4.7	32
17	Angle Object Coverage Problem in a Wireless Sensor Network. IEEE Sensors Journal, 2012, 12, 3408-3416.	4.7	30
18	Exploring Load-Balance to Dispatch Mobile Sensors in Wireless Sensor Networks. , 2007, , .		29

#	ARTICLE	IF	CITATIONS
19	Cluster-Enhanced Techniques for Pattern-Matching Localization Systems. , 2007, , .		28
20	The Beacon Movement Detection Problem in Wireless Sensor Networks for Localization Applications. IEEE Transactions on Mobile Computing, 2009, 8, 1326-1338.	5.8	27
21	Streetcast: An Urban Broadcast Protocol for Vehicular Ad-Hoc Networks. , 2010, , .		24
22	Fully power-aware and location-aware protocols for wireless multi-hop ad hoc networks. , 0, , .		23
23	Exploiting Spectral Reuse in Routing, Resource Allocation, and Scheduling for IEEE 802.16 Mesh Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 301-313.	6.3	23
24	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
25	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
26	A vehicular wireless sensor network for CO ₂ monitoring. , 2009, , .		21
27	An Energy-Efficient Handover Scheme with Geographic Mobility Awareness in WiMAX-WiFi Integrated Networks. , 2009, , .		20
28	Analyzing students' attention in class using wearable devices. , 2017, , .		20
29	Managing Power Saving Classes in IEEE 802.16 Wireless MANs: A Fold-and-Demultiplex Method. IEEE Transactions on Mobile Computing, 2011, 10, 1237-1247.	5.8	19
30	Design and Implementation of a SIP-Based Mobile and Vehicular Wireless Network With Push Mechanism. IEEE Transactions on Vehicular Technology, 2007, 56, 3408-3420.	6.3	18
31	Enhanced cooperative access class barring and traffic adaptive radio resource management for M2M communications over LTE-A. , 2013, , .		18
32	Magnetic Field-Based Localization in Factories Using Neural Network With Robotic Sampling. IEEE Sensors Journal, 2020, 20, 13110-13118.	4.7	18
33	GeoAds: A Middleware Architecture for Music Service with Location-Aware Advertisement. , 2007, , .		17
34	Things in the air: tagging wearable IoT information on drone videos. Discover Internet of Things, 2021, 1, 1.	4.8	17
35	A Cross-Layer Framework for Overhead Reduction, Traffic Scheduling, and Burst Allocation in IEEE 802.16 OFDMA Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 1740-1755.	6.3	16
36	Discovering Phase Timing Information of Traffic Light Systems by Stop-Go Shockwaves. IEEE Transactions on Mobile Computing, 2015, 14, 58-71.	5.8	16

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37	M2M Encountering: Collaborative Localization via Instant Inter-Particle Filter Data Fusion. IEEE Sensors Journal, 2016, 16, 5715-5724.	4.7	16
38	Efficient and Consistent Flow Update for Software Defined Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 411-421.	14.0	14
39	Compression and Storage Schemes in a Sensor Network with Spatial and Temporal Coding Techniques. IEEE Vehicular Technology Conference, 2008, , .	0.4	13
40	Cross-Layer, Energy-Efficient Design for Supporting Continuous Queries in Wireless Sensor Networks: A Quorum-Based Approach. Wireless Personal Communications, 2009, 51, 411-426.	2.7	13
41	Using Mobile Mules for Collecting Data from an Isolated Wireless Sensor Network. , 2010, , .		13
42	Eye on You: Fusing Gesture Data from Depth Camera and Inertial Sensors for Person Identification. , 2018, , .		13
43	Exploiting Spectral Reuse in Resource Allocation, Scheduling, and Routing for IEEE 802.16 Mesh Networks. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	12
44	A Seamless Handoff Mechanism for DHCP-Based IEEE 802.11 WLANs. IEEE Communications Letters, 2007, 11, 665-667.	4.1	12
45	Indoor localization: Automatically constructing today's radio map by iRobot and RFIDs. , 2009, , .		12
46	Sensor-Aided Personal Navigation Systems for Handheld Devices. , 2010, , .		12
47	Evacuation Time Analysis and Optimization for Distributed Emergency Guiding Based on Wireless Sensor Networks. , 2012, , .		12
48	AR-Based Positioning for Mobile Devices. , 2011, , .		11
49	Energy-Efficient Uplink Scheduling for Ultra-Reliable Communications in NB-IoT Networks. , 2018, , .		11
50	Design and analysis of contention-based request schemes for best-effort traffics in IEEE 802.16 networks. IEEE Communications Letters, 2008, 12, 602-604.	4.1	10
51	BLE-based collaborative indoor localization with adaptive multi-lateration and mobile encountering. , 2016, , .		10
52	Two-Phase Multicast DRX Scheduling for 3GPP LTE-Advanced Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1839-1849.	5.8	10
53	eHint: An Efficient Protocol for Uploading Small-Size IoT Data. , 2017, , .		10
54	Enabling Identity-Aware Tracking via Fusion of Visual and Inertial Features. , 2019, , .		10

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55	Multi-Slot Allocation Protocols for Massive IoT Devices With Small-Size Uploading Data. IEEE Wireless Communications Letters, 2019, 8, 448-451.	5.0	10
56	An efficient MAC protocol for multi-channel mobile ad hoc networks based on location information. International Journal of Communication Systems, 2006, 19, 877-896.	2.5	9
57	Two-Way Beacon Scheduling in ZigBee Tree-Based Wireless Sensor Networks. , 2008, , .		9
58	Design and Implementation of a WSN-Based Intelligent Light Control System. , 2008, , .		9
59	Multi-screen cyber-physical video game: An integration with body-area inertial sensor networks. , 2010, , .		9
60	Cooperative Sensing Data Collection and Distribution with Packet Collision Avoidance in Mobile Long-Thin Networks. Sensors, 2018, 18, 3588.	3.8	9
61	Pedestrian Tracking by Acoustic Doppler Effects. IEEE Sensors Journal, 2019, 19, 3893-3901.	4.7	9
62	Energy-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
63	LEGS: A Load-balancing Emergency Guiding System based on wireless sensor networks. , 2012, , .		8
64	Design and implement a mobile badminton stroke classification system. , 2017, , .		8
65	Range-Free Mobile Actor Relocation in a Two-Tiered Wireless Sensor and Actor Network. ACM Transactions on Sensor Networks, 2016, 12, 1-40.	3.6	8
66	Non-location-based Mobile Sensor Relocation in a Hybrid Static-Mobile Wireless Sensor Network. , 2009, , .		7
67	A Walking Velocity Update technique for pedestrian dead-reckoning applications. , 2011, , .		7
68	iMace: Protecting Females from Sexual and Violent Offenders in a Community via Smartphones. , 2011, , .		7
69	Inference of Conversation Partners by Cooperative Acoustic Sensing in Smartphone Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1387-1400.	5.8	7
70	A Group Tour Guide System with RFIDs and Wireless Sensor Networks. , 2007, , .		6
71	Deploying Sensors for Gravity Measurement in a Body-Area Inertial Sensor Network. IEEE Sensors Journal, 2013, 13, 1522-1533.	4.7	6
72	Energy-efficient DRX scheduling for multicast transmissions in 3GPP LTE-Advanced wireless networks. , 2013, , .		6

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73	The hint protocol: Using a broadcast method to enable ID-free data transmission for dense IoT devices. , 2017, , .		6
74	Applying machine learning to head gesture recognition using wearables. , 2017, , .		6
75	Flowtable-Free Routing for Data Center Networks: A Software-Defined Approach. , 2017, , .		6
76	Wireless location tracking by a sensor-assisted particle filter and floor plans in a 2.5-D space. , 2018, , .		6
77	Design and Implementation of Image Electronic Fence with 5G technology for Smart Farms. , 2019, , .		6
78	Detecting Movement of Beacons in Location-Tracking Wireless Sensor Networks. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	5
79	XOR-Forwarding for Wireless Networks. , 2009, , .		5
80	Simple and Regular Mini-Slot Scheduling for IEEE 802.16d Grid-Based Mesh Networks. , 2010, , .		5
81	People help people: A pattern-matching localization with inputs from user community. , 2010, , .		5
82	On local cache management strategies for Mobile Augmented Reality. , 2014, , .		5
83	Energy-Efficient Dynamic Point Selection for Cloud Radio Access Networks (C-RAN). , 2017, , .		5
84	A Quorum-based Mechanism as an Enhancement to Clock Synchronization Protocols for IEEE 802.11 MANETs. IEEE Communications Letters, 2007, 11, 313-315.	4.1	4
85	VS ³ : A Vehicular Surveillance and Sensing System for security applications. , 2009, , .		4
86	Dynamic water gate assignment scheme for data aggregation in long-thin sensor networks. , 2010, , .		4
87	Efficient Packet Recovery Using Prioritized Network Coding in DVB-IPDC Systems. IEEE Communications Letters, 2012, 16, 382-385.	4.1	4
88	Give me a hint: An ID-free small data transmission protocol for dense IoT devices. , 2017, , .		4
89	On Scalable Service Function Chaining with $\mathcal{O}(1)$ Flowtable Entries. , 2018, , .		4
90	Sensor-based Badminton Stroke Classification by Machine Learning Methods. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
91	Message-Efficient In-Network Location Management in a Multi-sink Wireless Sensor Network. , 0, , .		3
92	An application of sensor networks with data mining to patient controlled analgesia. , 2010, , .		3
93	Automatic parameter selection for the ZigBee distributed address assignment mechanism. , 2013, , .		3
94	r-Hint: A message-efficient random access response for mMTC in 5G networks. , 2017, , .		3
95	Resolving Intra-Class Imbalance for GAN-Based Image Augmentation. , 2019, , .		3
96	A Comprehensive Multisensor Dataset Employing RGBD Camera, Inertial Sensor and Web Camera. , 2019, , .		3
97	Visualization Design for Location-Aware Services. , 2006, , .		2
98	Vehicular traffic information dissemination for WAVE/DSRC networks. , 2011, , .		2
99	On Optimization of Accelerometers Deployment for Human Posture Tracking. , 2011, , .		2
100	A flexible analysis and prediction framework on resource usage in public clouds. , 2012, , .		2
101	Continuous Human Location and Posture Tracking by Multiple Depth Sensors. , 2014, , .		2
102	An adaptive Paris Metro Pricing scheme for mobile data networks. International Journal of Network Management, 2016, 26, 422-434.	2.2	2
103	Qnalyzer: Queuing Recognition Using Accelerometer and Wi-Fi Signals. , 2017, , .		2
104	Parallel and local diagnostic algorithm for wireless sensor networks. , 2017, , .		2
105	Constructing a 3D Multiple Mobile Medical Imaging System through Service Science, Management, Engineering and Design. Systems, 2017, 5, 5.	2.3	2
106	How to Reduce Unexpected eMBMS Session Disconnection: Design and Performance Analysis. IEEE Wireless Communications Letters, 2018, 7, 126-129.	5.0	2
107	Appliance Control by TDoA-based Localization and Gesture Recognition. , 2018, , .		2
108	Data offloading for dynamic point selection in cloud radio access networks (C-RAN). , 2018, , .		2

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109	Achieving Ultra Energy-efficient and Collision-free Data Collection in Wake-up Radio Enabled mIoT. , 2020, , .		2
110	Supporting Multimedia Communication within an 802.11g Ad-hoc Network. , 2007, , .		1
111	A channel management protocol for multi-channel, single-radio 802.11-based wireless mesh networks. , 2011, , .		1
112	On Tile-and-Energy Allocation in OFDMA Broadband Wireless Networks. IEEE Communications Letters, 2011, 15, 1284-1287.	4.1	1
113	An augmented reality based group communication system for bikers using smart phones. , 2011, , .		1
114	Pedestrian activity detection in a multi-floor environment by a smart phone. , 2012, , .		1
115	Design of a self-portrait application with sensor-assisted guiding for smart devices. , 2013, , .		1
116	Sleep scheduling in IEEE 802.16j relay networks. , 2013, , .		1
117	Guest Editorial: Networking Challenges in Cloud Computing Systems and Applications. IEEE Journal on Selected Areas in Communications, 2013, 31, 2593-2595.	14.0	1
118	On common profile matching among multiparty users in mobile D2D social networks. , 2014, , .		1
119	Distributed address assignment with address borrowing for ZigBee networks. , 2014, , .		1
120	Who Takes What: Using RGB-D Camera and Inertial Sensor for Unmanned Monitor. , 2019, , .		1
121	ID-Free Multigroup Cardinality Estimation for Massive RFID Tags in IoT. , 2019, , .		1
122	Enhanced scheduling schemes with energy conservation for dynamic point selection in cloud radio access networks. Wireless Networks, 2020, 26, 1519-1534.	3.0	1
123	iLamp: A sensor-enhanced lamp with surface-tracking capability based on light intensity. , 2009, , .		0
124	From barren to beautiful: A pattern-matching localization scheme integrating heterogeneous network data. , 2011, , .		0
125	VirtualTouch: A finger glove to simulate touch screen commands. , 2012, , .		0
126	Traffic-attracted mobile relay deployment in a wireless ad hoc network. , 2012, , .		0

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127	A lane-level dynamic traffic control system for driving efficiency optimization based on vehicular networks. , 2013, , .		0
128	Augmented reality assisted photo positioning for mobile devices. , 2013, , .		0
129	Smarter IoT. , 2014, , .		0
130	Self-Contained Localization without Auxiliary Signals on Smart Devices. , 2014, , .		0
131	Demo abstract: A video-based metropolitan positioning system with centimeter-grade localization for VANETs. , 2015, , .		0
132	A dynamic reservation scheme in online charging system for Family Shared Plan. , 2015, , .		0
133	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
134	Spatial and Temporal Aggregation for Small and Massive Transmissions in LTE-M Networks. , 2017, , .		0
135	A Dynamic Hybrid Counting Procedure for eMBMS of 3GPP. , 2017, , .		0
136	iToy: A LEGO-like solution for small scale IoT applications. , 2017, , .		0
137	A Hint-Based Random Access Protocol for mMTC in 5G Mobile Network. , 2018, , .		0
138	On Optimizing Signaling Efficiency of Retransmissions for Voice LTE. , 2020, , .		0
139	Fusing Multi-Sensory Data for Precision Indoor Localization. , 2020, , .		0
140	ZigBee Wireless Sensor Network and Its Network Formation Problem. , 2010, , 181-196.		0