

Beibei Wang

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,354
citations

331670

21
h-index

377865

34
g-index

72
all docs

72
docs citations

72
times ranked

1703
citing authors

#	ARTICLE	IF	CITATIONS
1	RF-Based Indoor Moving Direction Estimation Using a Single Access Point. IEEE Internet of Things Journal, 2022, 9, 462-473.	8.7	2
2	<i>mmKey</i>: Universal Virtual Keyboard Using A Single Millimeter-Wave Radio. IEEE Internet of Things Journal, 2022, 9, 510-524.	8.7	3
3	GaitCube: Deep Data Cube Learning for Human Recognition With Millimeter-Wave Radio. IEEE Internet of Things Journal, 2022, 9, 546-557.	8.7	21
4	DeFall: Environment-Independent Passive Fall Detection Using WiFi. IEEE Internet of Things Journal, 2022, 9, 8515-8530.	8.7	20
5	Driver Vital Signs Monitoring Using Millimeter Wave Radio. IEEE Internet of Things Journal, 2022, 9, 11283-11298.	8.7	25
6	In-Vehicle Sensing for Smart Cars. IEEE Open Journal of Vehicular Technology, 2022, 3, 221-242.	4.9	7
7	Intelligent Wi-Fi Based Child Presence Detection System. , 2022, , .		4
8	Toward mmWave-Based Sound Enhancement and Separation. , 2022, , .		2
9	ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. IEEE Internet of Things Journal, 2021, 8, 1294-1307.	8.7	59
10	SMARS: Sleep Monitoring via Ambient Radio Signals. IEEE Transactions on Mobile Computing, 2021, 20, 217-231.	5.8	79
11	mmHRV: Contactless Heart Rate Variability Monitoring Using Millimeter-Wave Radio. IEEE Internet of Things Journal, 2021, 8, 16623-16636.	8.7	41
12	mmEye: Super-Resolution Millimeter Wave Imaging. IEEE Internet of Things Journal, 2021, 8, 6995-7008.	8.7	22
13	WiCrowd: Counting the Directional Crowd With a Single Wireless Link. IEEE Internet of Things Journal, 2021, 8, 8644-8656.	8.7	8
14	Robust Device-Free Proximity Detection Using Wifi. , 2021, , .		4
15	High Accuracy Tracking of Targets Using Massive MIMO. , 2021, , .		1
16	Massive MIMO for High-Accuracy Target Localization and Tracking. IEEE Internet of Things Journal, 2021, 8, 10131-10145.	8.7	9
17	Radio Frequency Based Heart Rate Variability Monitoring. , 2021, , .		3
18	Sound Recovery From Radio Signals. , 2021, , .		6

#	ARTICLE	IF	CITATIONS
19	Wifi-Based Device-Free Gesture Recognition Through-the-Wall. , 2021, , .		6
20	<i>mmWrite</i> : Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. IEEE Internet of Things Journal, 2021, 8, 13291-13305.	8.7	20
21	Universal Virtual Keyboard using 60 GHz mmWave Radar. , 2021, , .		1
22	Gait-based People Identification with Millimeter-Wave Radio. , 2021, , .		3
23	Driver Authentication for Smart Car Using Wireless Sensing. IEEE Internet of Things Journal, 2020, 7, 2235-2246.	8.7	22
24	Radio Frequency Based Direction Sensing Using Massive MIMO. IEEE Access, 2020, 8, 26827-26838.	4.2	7
25	Handwriting Tracking using 60 GHz mmWave Radar. , 2020, , .		6
26	mmTrack: Passive Multi-Person Localization Using Commodity Millimeter Wave Radio. , 2020, , .		54
27	Passive People Counting using Commodity WiFi. , 2020, , .		6
28	Wireless AI in Smart Car: How Smart a Car Can Be?. IEEE Access, 2020, 8, 55091-55112.	4.2	32
29	Respiration Tracking for People Counting and Recognition. IEEE Internet of Things Journal, 2020, 7, 5233-5245.	8.7	47
30	EasiTrack: Decimeter-Level Indoor Tracking With Graph-Based Particle Filtering. IEEE Internet of Things Journal, 2020, 7, 2397-2411.	8.7	32
31	Indoor Heading Direction Estimation Using Rf Signals. , 2020, , .		2
32	A WiFi-Based Passive Fall Detection System. , 2020, , .		9
33	ViMo: Vital Sign Monitoring Using Commodity Millimeter Wave Radio. , 2020, , .		9
34	mSense. , 2020, 4, 1-20.		28
35	Large-scale decimeter-level indoor tracking using a single access point. , 2020, , .		0
36	WiDetect. , 2019, 3, 1-24.		45

#	ARTICLE	IF	CITATIONS
37	Decimeter-Accuracy Indoor Tracking. , 2019, , 90-114.		0
38	Device-Free Speed Estimation. , 2019, , 239-270.		0
39	Joint Power Waveforming and Beamforming. , 2019, , 334-362.		0
40	Indoor Events Monitoring Using Channel State Information Time Series. IEEE Internet of Things Journal, 2019, 6, 4977-4990.	8.7	23
41	In-Car Driver Authentication Using Wireless Sensing. , 2019, , .		3
42	The Promise of Radio Analytics: A Future Paradigm of Wireless Positioning, Tracking, and Sensing. IEEE Signal Processing Magazine, 2018, 35, 59-80.	5.6	86
43	TR-BREATH: Time-Reversal Breathing Rate Estimation and Detection. IEEE Transactions on Biomedical Engineering, 2018, 65, 489-501.	4.2	92
44	Distributed Signal Compressive Quantization and Parallel Interference Cancellation for Cloud Radio Access Network. IEEE Transactions on Communications, 2018, 66, 4186-4198.	7.8	4
45	WiSpeed: A Statistical Electromagnetic Approach for Device-Free Indoor Speed Estimation. IEEE Internet of Things Journal, 2018, 5, 2163-2177.	8.7	66
46	WiBall: A Time-Reversal Focusing Ball Method for Decimeter-Accuracy Indoor Tracking. IEEE Internet of Things Journal, 2018, 5, 4031-4041.	8.7	30
47	TRIEDS: Wireless Events Detection Through the Wall. IEEE Internet of Things Journal, 2017, 4, 723-735.	8.7	30
48	Spatial focusing inspired 5G spectrum sharing. , 2017, , .		2
49	Rate-Energy Region of SWIPT for MIMO Broadcasting Under Nonlinear Energy Harvesting Model. IEEE Transactions on Wireless Communications, 2017, 16, 5147-5161.	9.2	186
50	Radio Biometrics: Human Recognition Through a Wall. IEEE Transactions on Information Forensics and Security, 2017, 12, 1141-1155.	6.9	58
51	Joint Power Waveforming and Beamforming for Wireless Power Transfer. IEEE Transactions on Signal Processing, 2017, 65, 6409-6422.	5.3	14
52	A Broad Beamforming Approach for High-Mobility Communications. IEEE Transactions on Vehicular Technology, 2017, 66, 10546-10550.	6.3	18
53	A time-reversal spatial hardening effect for indoor speed estimation. , 2017, , .		7
54	Time-Reversal Tunneling Effects for Cloud Radio Access Network. IEEE Transactions on Wireless Communications, 2016, 15, 3030-3043.	9.2	8

#	ARTICLE	IF	CITATIONS
55	Green Wireless Communications: A Time-Reversal Paradigm. IEEE Journal on Selected Areas in Communications, 2011, 29, 1698-1710.	14.0	174
56	Waveform Design for Sum Rate Optimization in Time-Reversal Multiuser Downlink Systems. , 2011, , .		2
57	Cooperative peer-to-peer streaming: An evolutionary game-theoretic approach. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1346-1357.	8.3	45
58	Optimal Defense against Jamming Attacks in Cognitive Radio Networks Using the Markov Decision Process Approach. , 2010, , .		14
59	Optimal power allocation strategy against jamming attacks using the Colonel Blotto game. , 2009, , .		21
60	Peer-to-peer file sharing game using correlated equilibrium. , 2009, , .		13
61	Distributed Relay Selection and Power Control for Multiuser Cooperative Communication Networks Using Stackelberg Game. IEEE Transactions on Mobile Computing, 2009, 8, 975-990.	5.8	360
62	Game theoretical mechanism design methods. IEEE Signal Processing Magazine, 2008, 25, 74-84.	5.6	65
63	Dynamic Frequency-Intelligent Reserve-and-Switch Technique (D-FIRST) to Combat Inter-Operator Interference. , 2008, , .		0
64	Collusion-Resistant Multi-Winner Spectrum Auction for Cognitive Radio Networks. , 2008, , .		22
65	A multi-winner cognitive spectrum auction framework with collusion-resistant mechanisms. , 2008, , .		48
66	Evolutionary Game Framework for Behavior Dynamics in Cooperative Spectrum Sensing. , 2008, , .		28
67	Distributed Relay Selection and Power Control for Multiuser Cooperative Communication Networks Using Buyer/Seller Game. , 2007, , .		131
68	Self-Learning Repeated Game Framework for Distributed Primary-Prioritized Dynamic Spectrum Access. , 2007, , .		9
69	Self-Learning Repeated Game Framework for Distributed Primary-Prioritized Dynamic Spectrum Access. , 2007, , .		5
70	Primary-Prioritized Markov Approach for Dynamic Spectrum Access. , 2007, , .		81
71	WLC41-4: Stackelberg Game for Distributed Resource Allocation over Multiuser Cooperative Communication Networks. , 2006, , .		22