Guo Li Wang

List of Publications by Year
in descending order

94 papers	984 citations	567281 15 h-index
501196 28 g-index		

94 all docs	94 docs citations
94 times ranked	829 citing authors

#	Article	IF	Citations
1	An Exponential-Rayleigh Model for RSS-Based Device-Free Localization and Tracking. IEEE Transactions on Mobile Computing, 2015, 14, 484-494.	5.8	116
2	Heterogeneous Bayesian compressive sensing for sparse signal recovery. IET Signal Processing, 2014, 8, 1009-1017.	1.5	73
3	A deep learning approach for fetal QRS complex detection. Physiological Measurement, 2018, 39, 045004.	2.1	69
4	Floor Pressure Imaging for Fall Detection with Fiber-Optic Sensors. IEEE Pervasive Computing, 2016, 15, 40-47.	1.3	57
5	Design and implementation of a distributed fall detection system based on wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	47
6	Elderly-falling detection using distributed direction-sensitive pyroelectric infrared sensor arrays. Multidimensional Systems and Signal Processing, 2012, 23, 451-467.	2.6	44
7	A Novel Infrared Motion Sensing System for Compressive Classification of Physical Activity. IEEE Sensors Journal, 2016, 16, 2251-2259.	4.7	37
8	A real-time device-free localization system using correlated RSS measurements. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	36
9	Fetal electrocardiography extraction with residual convolutional encoder–decoder networks. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 1081-1089.	1.3	33
10	Enhanced radio tomographic imaging with heterogeneous Bayesian compressive sensing. Pervasive and Mobile Computing, 2017, 40, 450-463.	3.3	30
11	Compressive classification of human motion using pyroelectric infrared sensors. Pattern Recognition Letters, 2014, 49, 231-237.	4.2	29
12	Radar-Based Human Activity Recognition Using Hybrid Neural Network Model With Multidomain Fusion. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2889-2898.	4.7	27
13	Human tracking using ceiling pyroelectric infrared sensors. , 2009, , .		24
14	A hierarchical RSS model for RF-based device-free localization. Pervasive and Mobile Computing, 2016, 31, 124-136.	3.3	24
15	Radar-Based 3D Human Skeleton Estimation by Kinematic Constrained Learning. IEEE Sensors Journal, 2021, 21, 23174-23184.	4.7	17
16	Dual-Radio Tomographic Imaging With Shadowing-Measurement Awareness. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4453-4464.	4.7	16
17	Genetic algorithm based optimal placement of PIR sensors for human motion localization. Optimization and Engineering, 2014, 15, 643-656.	2.4	15
18	Sensor-based activity recognition of solitary elderly via stigmergy and two-layer framework. Engineering Applications of Artificial Intelligence, 2020, 95, 103859.	8.1	15

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19	Radio Tomographic Imaging Based on Low-Rank and Sparse Decomposition. IEEE Access, 2019, 7, 50223-50231.	4.2	14
20	Infrared motion sensing system for human-following robots. Sensors and Actuators A: Physical, 2012, 185, 1-7.	4.1	13
21	Online activity recognition and daily habit modeling for solitary elderly through indoor position-based stigmergy. Engineering Applications of Artificial Intelligence, 2018, 76, 214-225.	8.1	13
22	Generalized predictive control of linear time-varying systems. Journal of the Franklin Institute, 2017, 354, 1819-1832.	3.4	12
23	Genetic algorithm based optimal placement of PIR sensor arrays for human localization. , 2011, , .		10
24	An Exponential-Rayleigh signal strength model for device-free localization and tracking with wireless networks. , 2013, , .		10
25	DISTRIBUTED TARGET LOCALIZATION AND TRACKING WITH WIRELESS PYROELECTRIC SENSOR NETWORKS. International Journal on Smart Sensing and Intelligent Systems, 2013, 6, 1400-1418.	0.7	10
26	Feedback Based Sparse Recovery for Motion Tracking in RF Sensor Networks. , 2011, , .		9
27	Towards Cross-Environment Human Activity Recognition Based on Radar Without Source Data. IEEE Transactions on Vehicular Technology, 2021, 70, 11843-11854.	6.3	9
28	High-order parameter approximation for von Mises–Fisher distributions. Applied Mathematics and Computation, 2012, 218, 11880-11890.	2.2	8
29	Data-efficient radio tomographic imaging with adaptive Bayesian compressive sensing. , 2015, , .		8
30	Daily Activity Recognition Using Pyroelectric Infrared Sensors and Reference Structures. IEEE Sensors Journal, 2019, 19, 1645-1652.	4.7	8
31	Using RFID in localization for indoor navigation of mobile robots. , 2012, , .		7
32	A Smart Fiber Floor for Indoor Target Localization. IEEE Pervasive Computing, 2015, 14, 52-59.	1.3	7
33	Optimal design of infrared motion sensing system using divide-and-conquer based genetic algorithm. , 2013, , .		6
34	Sleep-pose Recognition Based On Pyroelectric Infrared Sensing Technology. , 2018, , .		6
35	Exploiting the tree-structured compressive sensing of wavelet coefficients via block sparse Bayesian learning. Electronics Letters, 2018, 54, 975-976.	1.0	6
36	QRStree: A prefix tree-based model to fetal QRS complexes detection. PLoS ONE, 2019, 14, e0223057.	2.5	6

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37	Exploring the Laplace Prior in Radio Tomographic Imaging with Sparse Bayesian Learning towards the Robustness to Multipath Fading. Sensors, 2019, 19, 5126.	3.8	6
38	Generative model based attenuation image recovery for device-free localization with radio tomographic imaging. Pervasive and Mobile Computing, 2020, 66, 101205.	3.3	6
39	Contention-Based Beaconless Real-Time Routing Protocol for Wireless Sensor Networks. Wireless Sensor Network, 2010, 02, 528-537.	1.3	6
40	A compressed infrared motion sensing system for human-following robots. , 2014, , .		5
41	A RF-based spatiotemporal RTI localization algorithm using sparse Bayesian learning. , 2017, , .		5
42	Sparse Bayesian Learning with joint noise robustness and signal sparsity. IET Signal Processing, 2017, 11, 1104-1113.	1.5	5
43	A tree-search method for single-channel fetal QRS complexes detection in fetal heart rate monitoring. , 2018, , .		5
44	A Hierarchical Approach for Robust Background Subtraction Based on Two Views. , 2009, , .		4
45	Radio Tomographic Imaging with Feedback-Based Sparse Bayesian Learning. , 2018, , .		4
46	Regularization-based recovery scheme for inverse dynamics of high-speed flexible beams. Applied Mathematics and Computation, 2000, 115, 161-175.	2.2	3
47	Sparse Signal Recovery via ECME Thresholding Pursuits. Mathematical Problems in Engineering, 2012, 2012, 1-22.	1.1	3
48	Sparse target localization in RF sensor networks using compressed sensing. , 2013, , .		3
49	Handwriting analysis for assistant diagnosis of neuromuscular disorders. , 2013, , .		3
50	A Diffraction Based Modified Exponential Model for Device-Free Localization with RSS Measurements. Lecture Notes in Computer Science, 2014, , 342-353.	1.3	3
51	Framework of Sequence Chunking for Human Activity Recognition Using Wearables. , 2019, , .		3
52	Efficient Recognition of Informative Measurement in the RF-Based Device-Free Localization. Sensors, 2019, 19, 1219.	3.8	3
53	Spatiotemporal Radio Tomographic Imaging with Bayesian Compressive Sensing for RSS-Based Indoor Target Localization. Lecture Notes in Computer Science, 2017, , 528-540.	1.3	3
54	Online Activity Recognition Combining Dynamic Segmentation and Emergent Modeling. Sensors, 2022, 22, 2250.	3.8	3

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55	Rational fraction model for regularized inverse dynamics of a flexible manipulator. Science in China Series D: Earth Sciences, 1998, 41, 600-607.	0.9	2
56	Cluster Based Routing Scheme for Distributed Regression in Wireless Sensor Networks: Gaussian Eliminations. , 2008, , .		2
57	Steepest Descent Based Optimization for Distributed Regression in Wireless Sensor Networks. , 2008, , .		2
58	Target localization via correlated link inference. , 2011, , .		2
59	Using bearing-sensitive infrared sensor arrays in Motion localization for human-following robots. , 2013, , .		2
60	Stroke Parameters Identification Algorithm in Handwriting Movements Analysis by Synthesis. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 317-324.	6.3	2
61	A novel framework of measurement matrix optimization for block sparse recovery. , 2017, , .		2
62	Dual Radio Tomographic Imaging with Bayesian Compressive Sensing. Lecture Notes in Electrical Engineering, 2018, , 443-452.	0.4	2
63	Variational Bayesian image restoration with multi-structured model of wavelet transform coefficients. Signal Processing: Image Communication, 2019, 72, 1-8.	3.2	2
64	Enhanced Positioning Systems Using Optical Mouse Sensors. Lecture Notes in Computer Science, 2014, , 463-474.	1.3	2
65	Link Selection in Radio Tomographic Imaging with Backprojection Transformation. Lecture Notes in Electrical Engineering, 2019, , 487-496.	0.4	2
66	Symmetric dichotomy based inverse dynamic model of a high-speed flexible beam. Mathematics and Computers in Simulation, 1999, 49, 319-330.	4.4	1
67	Colorization Based on Image Manifold Learning. , 2006, , .		1
68	Hierarchical Regression for Data Acquisition in Wireless Sensor Networks. , 2009, , .		1
69	Cluster based Routing Scheme for Distributed Regression in Wireless Sensor Networks: Gaussian Eliminations. New Generation Computing, 2010, 28, 121-128.	3.3	1
70	Motion Tracking Based on Boolean Compressive Infrared Sampling. , 2010, , .		1
71	A Time-Varying MIMO Generalized Minimum Variance Controller for Servo Application. Applied Mechanics and Materials, 2013, 321-324, 1593-1596.	0.2	1
72	A new sparse reconstruction algorithm for device-free localization with sensor network. , 2013, , .		1

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73	An enhanced multi-scale model for shadow fading in radio tomographic imaging. , 2014, , .		1
74	Orthogonal-view based compressive motion classification using pyroelectric infrared sensors. , 2014, , .		1
75	Spatio-Temporal Boolean Compressed Sensing for Human Localization With Fiber-Optic Sensors. IEEE Sensors Journal, 2014, 14, 3677-3684.	4.7	1
76	A RVM-based RSS model for device-free localization. , 2017, , .		1
77	Backprojection and Integration for the Multi-Scale Spatial Model in Radio Tomographic Imaging. , 2018, , .		1
78	A two-layer framework for activity recognition with multi-factor activity pheromone matrix. MATEC Web of Conferences, 2018, 189, 10001.	0.2	1
79	A Novel Framework for Maternal ECG Removal from Single-Channel Abdominal Recording. , 2019, , .		1
80	Radio tomographic imaging based on cluster Bayesian compressive sensing. Scientia Sinica Informationis, 2018, 48, 903-918.	0.4	1
81	A Mixed Approach for Fetal QRS Complex Detection. Lecture Notes in Electrical Engineering, 2019, , 387-395.	0.4	1
82	Maternal ECG removal using short time Fourier transform and convolutional auto-encoder. International Journal of Data Mining and Bioinformatics, 2020, 23, 160.	0.1	1
83	Exploring the Spatial Correlation of Shadowing in RF-based Device-Free Localization by Block Sparse Bayesian Learning. , 2021, , .		1
84	Symmetric dichotomy based model of internal dynamics for a class of flexible manipulators. , 1999, , .		0
85	Sensing strategies and performance assessment for a flexible manipulator. , 0, , .		0
86	Periodic Look Ahead Filter Design for Pipelining 2-D IIR Digital Filters. , 2007, , .		0
87	Ill-conditioned stable inversion arising from singularly perturbed zero dynamics. Journal of Control Theory and Applications, 2008, 6, 385-391.	0.8	0
88	A compact representation of handwriting movements with mixtures of primitives. , 2010, , .		0
89	Distributed infrared biometric sensing for lightweight human identification systems. , 2010, , .		0
90	A Heuristic Link Selection for Radio Frequency Tomography Based on BCS: Application. Advanced Materials Research, 2014, 1049-1050, 526-529.	0.3	0

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91	A Heuristic Link Selection for Radio Frequency Tomography Based on BCS: Principle and Method. Advanced Materials Research, 2014, 1049-1050, 520-525.	0.3	0
92	Robot Localization Based on Optical-Flow Sensor Array. Lecture Notes in Electrical Engineering, 2016, , 435-446.	0.4	0
93	Object Localization with Wireless Binary Pyroelectric Infrared Sensors. Lecture Notes in Electrical Engineering, 2013, , 631-638.	0.4	0
94	Optical Mouse Sensor-Based Laser Spot Tracking for HCI Input. Lecture Notes in Electrical Engineering, 2016, , 329-340.	0.4	0