

# Tomoaki Ohtsuki

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

298  
papers

2,552  
citations

23  
h-index

38  
g-index

390  
ext. papers

3,518  
ext. citations

3.6  
avg, IF

6.12  
L-index

#	Paper	IF	Citations
298	Multibeam Doppler Sensor-based Non-contact Heartbeat Detection Using Beam Diversity. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	
297	An Adaptive Vehicle Clustering Algorithm Based on Power Minimization in Vehicular Ad-hoc Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	0
296	Constructing Mobile Crowdsourced COVID-19 Vulnerability Map with Geo-Indistinguishability. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	0
295	Low-Resolution Infrared Array Sensor for Counting and Localizing People Indoors: When Low End Technology Meets Cutting Edge Deep Learning Techniques. <i>Information (Switzerland)</i> , <b>2022</b> , 13, 132	2.6	2
294	A Multi-Layer Hybrid Network with Its Application in Fetal Heart Rate Monitoring. <i>IEEE Signal Processing Letters</i> , <b>2022</b> , 1-1	3.2	
293	Sarcasm Over Time and Across Platforms: Does the Way we Express Sarcasm Change?. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	
292	Semi-Supervised Federated Learning Based Intrusion Detection Method for Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	1
291	An Infrared Array Sensor-Based Approach for Activity Detection, Combining Low-Cost Technology with Advanced Deep Learning Techniques. <i>Sensors</i> , <b>2022</b> , 22, 3898	3.8	
290	2D LIDAR-Based Approach for Activity Identification and Fall Detection. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	4
289	Fetal Heart Rate Detection Using First Derivative of ECG Waveform and Multiple Weighting Functions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2021</b> , 2021, 434-438	0.9	0
288	Distributed Feature Selection Considering Data Pricing based on Edge Computing in Electricity Spot Markets. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	
287	Blockchain Based Task Offloading for Edge Computing on Low-Quality Data via Distributed Learning in the Internet of Energy. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 1-1	14.2	6
286	Fully Convolutional Neural Network Based CSI Limited Feedback for FDD Massive MIMO Systems. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2021</b> , 1-1	6.6	2
285	A Novel Intrusion Detection Method Based on Lightweight Neural Network for Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	5
284	A Novel Approach based on Lightweight Deep Neural Network for Network Intrusion Detection <b>2021</b> ,		4
283	Spectrum-Aware Energy Efficiency Analysis in K-tier 5G HetNets. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 839	2.6	2
282	Distributed Deep Reinforcement Learning for Renewable Energy Accommodation Assessment With Communication Uncertainty in Internet of Energy. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 8557-8569	10.7	4

281	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 69, 2629-2641	4.1	3
280	Noncontact Heartbeat Detection by Viterbi Algorithm with Fusion of Beat-Beat Interval and Deep Learning-Driven Branch Metrics <b>2021</b> ,		1
279	Multi-Task Learning for Generalized Automatic Modulation Classification Under Non-Gaussian Noise With Varying SNR Conditions. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 3587-3596	9.6	24
278	A Novel Hybrid Deep Learning Model for Activity Detection Using Wide-Angle Low-Resolution Infrared Array Sensor. <i>IEEE Access</i> , <b>2021</b> , 9, 82563-82576	3.5	4
277	Joint UL/DL Resource Allocation for UAV-Aided Full-Duplex NOMA Communications. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	4
276	Discrete BP Polar Decoder Using Information Bottleneck Method. <i>IEEE Access</i> , <b>2021</b> , 9, 10645-10656	3.5	0
275	Make Smart Decisions Faster: Deciding D2D Resource Allocation via Stackelberg Game Guided Multi-Agent Deep Reinforcement Learning. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 1-1	4.6	1
274	Lightweight Automatic Modulation Classification Based on Decentralized Learning. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2021</b> , 1-1	6.6	6
273	Deep Learning-Based Channel Estimation for Massive MIMO Systems With Pilot Contamination. <i>IEEE Open Journal of Vehicular Technology</i> , <b>2021</b> , 2, 67-77	5.3	6
272	Edge Device Identification Based on Federated Learning and Network Traffic Feature Engineering. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2021</b> , 1-1	6.6	1
271	Spatial Degrees of Freedom Exploration and Analog Beamforming Designs for Signature Spatial Modulation. <i>IEICE Transactions on Communications</i> , <b>2021</b> , E104.B, 934-941	0.5	0
270	Federated Learning for DL-CSI Prediction in FDD Massive MIMO Systems. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 1810-1814	5.9	3
269	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 2305-2317	14.2	24
268	An Efficient Intrusion Detection Method Based on Dynamic Autoencoder. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 1707-1711	5.9	11
267	Compressive Sampled CSI Feedback Method Based on Deep Learning for FDD Massive MIMO Systems. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 5873-5885	6.9	10
266	Robust Resource Allocation for Two-Tier HetNets: An Interference-Efficiency Perspective. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2021</b> , 5, 1514-1528	4	5
265	SALDR: Joint Self-Attention Learning and Dense Refine for Massive MIMO CSI Feedback With Multiple Compression Ratio. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 1899-1903	5.9	9
264	Overloaded Wireless MIMO Switching for Information Exchanging through Untrusted Relay in Secure Wireless Communication. <i>IEICE Transactions on Communications</i> , <b>2021</b> , E104.B, 1249-1259	0.5	

263	Downlink CSI Feedback Algorithm with Deep Transfer Learning for FDD Massive MIMO Systems. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2021</b> , 1-1	6.6	11
262	A Deep Learning-Based Low Overhead Beam Selection in mmWave Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 682-691	6.8	9
261	An Autoencoder-Based Fetal Heart Rate Detector for Noninvasive Recordings. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2021</b> , 2021, 60-63	0.9	
260	Activity Detection using 2D LIDAR for Healthcare and Monitoring <b>2021</b> ,		2
259	Semi-Supervised Machine Learning Aided Anomaly Detection Method in Cellular Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 8459-8467	6.8	7
258	Transfer Learning for Semi-Supervised Automatic Modulation Classification in ZF-MIMO Systems. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , <b>2020</b> , 10, 231-239	5.2	20
257	Learning and Analysis of Damping Factor in Massive MIMO Detection Using BP Algorithm With Node Selection. <i>IEEE Access</i> , <b>2020</b> , 8, 96859-96866	3.5	2
256	Deep Reinforcement Learning for Economic Dispatch of Virtual Power Plant in Internet of Energy. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 6288-6301	10.7	24
255	Energy Efficiency Analysis in Cache-Enabled D2D-Aided Heterogeneous Cellular Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 19540-19554	3.5	6
254	Risk Assessment of Private Information Inference for Motion Sensor Embedded IoT Devices. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2020</b> , 4, 265-275	4.1	10
253	Influence and Mitigation of Pedestrian Blockage at mmWave Cellular Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 15442-15457	6.8	1
252	Dual-Ascent Inspired Transmit Precoding for Evolving Multiple-Access Spatial Modulation. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 6945-6961	6.9	8
251	Multi-Configuration Selection Mechanisms and Analog Precoding for Signature Spatial Modulation <b>2020</b> ,		1
250	Damping Factor Learning of BP Detection with Node Selection in Massive MIMO using Neural Network <b>2020</b> ,		1
249	Non-Contact Heartbeat Detection by Heartbeat Signal Reconstruction Based on Spectrogram Analysis With Convolutional LSTM. <i>IEEE Access</i> , <b>2020</b> , 8, 123603-123613	3.5	2
248	Low-Complexity Subspace MMSE Channel Estimation in Massive MU-MIMO System. <i>IEEE Access</i> , <b>2020</b> , 8, 124371-124381	3.5	
247	<b>2020</b> ,		1
246	ECG Signal Reconstruction via Doppler Sensor by Hybrid Deep Learning Model With CNN and LSTM. <i>IEEE Access</i> , <b>2020</b> , 8, 130551-130560	3.5	11

245	Online Recursive ICA Algorithm Used for Motor Imagery EEG Signal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 502-505</i>	0.9	2
244	An Infrared Array Sensor-Based Method for Localizing and Counting People for Health Care and Monitoring. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 4151-4155</i>	0.9	1
243	Discrete Polar Decoder using Information Bottleneck Method <b>2020,</b>		1
242	Joint Multiple Subspace-based BSS Method for Fetal Heart Rate Extraction From Non-invasive Recordings. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 616-620</i>	0.9	4
241	. <i>IEEE Wireless Communications, 2020, 27, 122-128</i>	13.4	7
240	Blind Source Separation on Non-Contact Heartbeat Detection by Non-Negative Matrix Factorization Algorithms. <i>IEEE Transactions on Biomedical Engineering, 2020, 67, 482-494</i>	5	18
239	Evaluating smart grid renewable energy accommodation capability with uncertain generation using deep reinforcement learning. <i>Future Generation Computer Systems, 2020, 110, 647-657</i>	7.5	14
238	Precoding Aided Generalized Spatial Modulation with K Transmit Antenna Groups <b>2019,</b>		1
237	Spectrogram-Based Simultaneous Heartbeat and Blink Detection using Doppler Sensor <b>2019,</b>		1
236	Non-Negative Matrix Factorization-Based Blind Source Separation for Non-Contact Heartbeat Detection <b>2019,</b>		2
235	Orthogonality Structure Designs for Generalized Precoding Aided Spatial Modulation. <i>IEEE Wireless Communications Letters, 2019, 8, 1406-1409</i>	5.9	3
234	Doppler Sensor-Based Blink Duration Estimation by Analysis of Eyelids Closing and Opening Behavior on Spectrogram. <i>IEEE Access, 2019, 7, 42726-42734</i>	3.5	3
233	A Novel Methodology for HYIP Operators Bitcoin Addresses Identification. <i>IEEE Access, 2019, 7, 74835-74848</i>	3.5	33
232	Secrecy Performance Analysis of Wireless Sensor Networks <b>2019, 3, 1-4</b>		13
231	Polynomial Networks Representation of Nonlinear Mixtures with Application in Underdetermined Blind Source Separation <b>2019,</b>		4
230	Multiple Radios for Fast Rendezvous in Heterogeneous Cognitive Radio Networks. <i>IEEE Access, 2019, 7, 37342-37359</i>	3.5	7
229	Multi-class sentiment analysis on twitter: Classification performance and challenges. <i>Big Data Mining and Analytics, 2019, 2, 181-194</i>	4.3	35
228	Underdetermined Blind Source Separation With Multi-Subspace for Nonlinear Representation. <i>IEEE Access, 2019, 7, 84545-84557</i>	3.5	2

227	A Fast Blind Scheme With Full Rendezvous Diversity for Heterogeneous Cognitive Radio Networks. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2019</b> , 5, 805-818	6.6	5
226	Identification of Darknet Markets Bitcoin Addresses by Voting Per-address Classification Results <b>2019</b> ,		11
225	Estimation of Stress Condition of Children by Nasal Skin Temperature. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 1351-1358	0.4	
224	FMCW Radar-Based Anomaly Detection in Toilet by Supervised Machine Learning Classifier <b>2019</b> ,		2
223	Overloaded Wireless MIMO Switching for Secure Wireless Communication Exchanging to Untrusted Relay <b>2019</b> ,		2
222	Novel CA-CFAR Approach for Improvement of Doppler Sensor-based Heart Rate Variability Estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 796-799	0.9	1
221	MUSIC-based Non-contact Heart Rate Estimation with Adaptive Window Size Setting. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 6073-6076	0.9	3
220	Low Complexity and High Accuracy Channel Interpolation with Dividing URA into Small URAs for 3D Massive MIMO <b>2019</b> ,		2
219	A Stochastic Gradient Approach for Robust Heartbeat Detection With Doppler Radar Using Time-Window-Variation Technique. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 1730-1741	5	18
218	Hate Speech on Twitter: A Pragmatic Approach to Collect Hateful and Offensive Expressions and Perform Hate Speech Detection. <i>IEEE Access</i> , <b>2018</b> , 6, 13825-13835	3.5	112
217	A closed-form expression for performance optimization of subcarrier intensity QAM signals-based relay-added FSO systems with APD. <i>Physical Communication</i> , <b>2018</b> , 31, 203-211	2.2	6
216	Graph Coloring-Based Pilot Reuse with AOA and Distance in D2D Underlay Massive MIMO <b>2018</b> ,		4
215	On Physical Layer Security of $\alpha$ - $\beta$ - $\kappa$ - $\mu$ Fading Channels. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 2168-2171	3.8	38
214	Doppler Analysis Based Fall Detection Using Array Antenna <b>2018</b> ,		3
213	[Invited Paper] Superposed Multicarrier Transmission. <i>IEEE Transactions on Media Technology and Applications</i> , <b>2018</b> , 6, 91-97	0.7	
212	Multi-Class Bitcoin-Enabled Service Identification Based on Transaction History Summarization <b>2018</b> ,		21
211	Nonlinear Blind Source Separation Unifying Vanishing Component Analysis and Temporal Structure. <i>IEEE Access</i> , <b>2018</b> , 6, 42837-42850	3.5	4
210	Time Series Analysis for Bitcoin Transactions: The Case of Pirate@40's HYIP Scheme <b>2018</b> ,		5

209	Enhanced Channel Hopping Algorithm for Heterogeneous Cognitive Radio Networks <b>2018</b> ,		2
208	Learning-Based Optimal Channel Selection in the Presence of Jammer for Cognitive Radio Networks <b>2018</b> ,		2
207	Fall Detection Using UHF Passive RFID Based on the Neighborhood Preservation Principle <b>2018</b> ,		2
206	A Low-Complexity High-Accuracy AR Based Channel Prediction Method for Interference Alignment <b>2018</b> ,		2
205	Smart Image-Processing based Energy Harvesting for Green Internet of Things <b>2018</b> ,		1
204	Non-Contact Heartbeat Detection by MUSIC with Discrete Cosine Transform-Based Parameter Adjustment <b>2018</b> ,		4
203	Smart Energy Harvesting for Internet of Things <b>2018</b> ,		5
202	Improved Sparse Adaptive Algorithms for Accurate Non-contact Heartbeat Detection Using Time-Window-Variation Technique. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 1-6</i>	0.9	1
201	Recovery of Block-Structured Sparse Signal Using Block-Sparse Adaptive Algorithms via Dynamic Grouping. <i>IEEE Access, 2018, 6, 56069-56083</i>	3.5	9
200	Precoding Aided Generalized Spatial Modulation With an Iterative Greedy Algorithm. <i>IEEE Access, 2018, 6, 72449-72457</i>	3.5	6
199	Spectrogram-Based Non-Contact RRI Estimation by Accurate Peak Detection Algorithm. <i>IEEE Access, 2018, 6, 60369-60379</i>	3.5	15
198	. <i>IEEE Access, 2018, 6, 64486-64502</i>	3.5	27
197	Robust Heartbeat Detection with Doppler Radar Based on Stochastic Gradient Approach <b>2018</b> ,		4
196	Secure information sharing with mirroring null steering through untrusted relay with two antennas <b>2018</b> ,		2
195	Green Heterogeneous Networks via an Intelligent Sleep/Wake-Up Mechanism and D2D Communications. <i>IEEE Transactions on Green Communications and Networking, 2018, 2, 915-931</i>	4	28
194	IGMM-Based Co-Localization of Mobile Users With Ambient Radio Signals. <i>IEEE Internet of Things Journal, 2017, 4, 308-319</i>	10.7	5
193	A Lower Bound on Secrecy Capacity for MIMO Wiretap Channel Aided by a Cooperative Jammer With Channel Estimation Error. <i>IEEE Access, 2017, 5, 4636-4645</i>	3.5	16
192	. <i>IEEE Transactions on Green Communications and Networking, 2017, 1, 131-144</i>	4	3

191	Impact of Pointing Errors on the Error Performance of Intersatellite Laser Communications. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 3082-3091	4	13
190	A Pattern-Based Approach for Multi-Class Sentiment Analysis in Twitter. <i>IEEE Access</i> , <b>2017</b> , 5, 20617-20633	3.5	69
189	Antenna Parameters Optimization in Self-Organizing Networks: Multi-Armed Bandits with Pareto Search <b>2017</b> ,		4
188	Monitoring Techniques with Radio Waves. <i>IEICE Communications Society Magazine</i> , <b>2017</b> , 11, 24-29	0	1
187	Secure outage probability over $\alpha$ -fading channels <b>2017</b> ,		3
186	A Novel Blockchain-Based Product Ownership Management System (POMS) for Anti-Counterfeits in the Post Supply Chain. <i>IEEE Access</i> , <b>2017</b> , 5, 17465-17477	3.5	282
185	Exploiting Interference for Capacity Improvement in Software-Defined Vehicular Networks. <i>IEEE Access</i> , <b>2017</b> , 5, 10662-10673	3.5	3
184	Novel Unsupervised SPITters Detection Scheme by Automatically Solving Unbalanced Situation. <i>IEEE Access</i> , <b>2017</b> , 5, 6746-6756	3.5	7
183	Heartbeat detection with Doppler radar based on spectrogram <b>2017</b> ,		18
182	Joint SDA-MAP Estimation of Channel and Interference Power in Superposed OFDM Transmission <b>2017</b> ,		1
181	<b>2017</b> ,		6
180	Energy-Efficient Channel Hopping Protocol for Cognitive Radio Networks <b>2017</b> ,		6
179	Performance Analysis of Physical Layer Security over Rician/Nakagami-m Fading Channels <b>2017</b> ,		6
178	Fair Pilot Assignment Based on AOA and Pathloss with Location Information in Massive MIMO <b>2017</b> ,		2
177	Secure Channel Selection Using Multi-Armed Bandit Algorithm in Cognitive Radio Network <b>2017</b> ,		2
176	Design of privacy-preserving mobile Bitcoin client based on deniability enabled bloom filter <b>2017</b> ,		6
175	Identification of High Yielding Investment Programs in Bitcoin via Transactions Pattern Analysis <b>2017</b> ,		27
174	Driver's blink detection using Doppler sensor <b>2017</b> ,		1



173	Green heterogeneous networks via an intelligent power control strategy and D2D communications <b>2017,</b>		4
172	A Smart City Based on Ambient Intelligence. <i>IEICE Transactions on Communications</i> , <b>2017</b> , E100.B, 1547-1553	5.5	7
171	Low Computational Complexity Direction-of-Arrival Estimation of Wideband Signal Sources Based on Squared TOPS. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2017</b> , E100.A, 219-226	0.4	
170	Improvements of femto-base station resource utilisation and ABS assignment convergence for dynamic ABS assignment. <i>IET Communications</i> , <b>2017</b> , 11, 370-376	1.3	1
169	Intersection-based forwarding protocol for vehicular ad hoc networks. <i>Telecommunication Systems</i> , <b>2016</b> , 62, 67-76	2.3	24
168	A Pattern-Based Approach for Sarcasm Detection on Twitter. <i>IEEE Access</i> , <b>2016</b> , 4, 5477-5488	3.5	102
167	<b>2016,</b>		21
166	Multi-point fairness in resource allocation for C-RAN downlink CoMP transmission. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2016</b> , 2016,	3.2	12
165	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 673-684	6.8	13
164	DOA Estimation Using Temporal Spatial Virtual Array Based on Doppler Shift with Adaptive PRI Control. <i>IEICE Transactions on Communications</i> , <b>2016</b> , E99.B, 2009-2018	0.5	
163	1. Fundamentals of MIMO. <i>Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers</i> , <b>2016</b> , 70, 1-5	0	
162	Algorithm Design of Relative Magnitude Coefficients Using Brent's Method on the K-User MIMO-IFC. <i>IEICE Transactions on Communications</i> , <b>2016</b> , E99.B, 1902-1909	0.5	
161	Suppression of multiple wideband interferences based on superposition probability. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2016</b> , 2016,	3.2	2
160	<b>2016,</b>		2
159	DOA estimation for wideband signals based on weighted Squared TOPS. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2016</b> , 2016,	3.2	17
158	Sentiment Analysis in Twitter: From Classification to Quantification of Sentiments within Tweets <b>2016,</b>		11
157	Coordinated Non-Orthogonal Multiple Access (CO-NOMA) <b>2016,</b>		12
156	Improvement of Blink Detection Using a Doppler Sensor Based on CFAR Processing <b>2016,</b>		4

155	QoE and throughput aware radio resource allocation algorithm in LTE network with users using different applications <b>2016,</b>		4
154	Biometric authentication using hand movement information from wrist-worn PPG sensors <b>2016,</b>		5
153	Room-level proximity detection based on RSS of dual-band Wi-Fi signals <b>2016,</b>		7
152	A low-complexity cell clustering algorithm in dense small cell networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2016,</b> 2016,	3.2	2
151	Interference alignment and power allocation for multi-user MIMO interference channels <b>2016,</b>		5
150	Heartbeat detection with Doppler radar based on estimation of average R-R interval using Viterbi algorithm <b>2016,</b>		10
149	Iterative estimation of undesired signal power for superposed multicarrier transmission with channel estimation error. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2015,</b> 2015,	3.2	2
148	Stochastic geometry modeling and analysis of cognitive heterogeneous cellular networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2015,</b> 2015,	3.2	17
147	Coalition Graph Game for Robust Routing in Cooperative Cognitive Radio Networks. <i>Mobile Networks and Applications</i> , <b>2015,</b> 20, 147-156	2.9	9
146	Heartbeat detection by using Doppler radar with wavelet transform based on scale factor learning <b>2015,</b>		21
145	Service-aware user-centric clustering and scheduling for cloud-RAN with coordinated multi-point transmission <b>2015,</b>		5
144	Room-level proximity detection using beacon frame from multiple access points <b>2015,</b>		4
143	Performance evaluation of the physical layer security using artificial noise and relay station <b>2015,</b>		1
142	Complexity reduction of pico cell clustering for interference alignment in heterogeneous networks <b>2015,</b>		4
141	Dynamic almost blank subframe assignment method with power control subframe for user fairness <b>2015,</b>		3
140	Non-cooperative game-based packet ferry forwarding for sparse mobile wireless networks. <i>Wireless Communications and Mobile Computing</i> , <b>2015,</b> 15, 1633-1648	1.9	1
139	Analytical modeling of cognitive heterogeneous cellular networks over Nakagami-m fading. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2015,</b> 2015,	3.2	4
138	<b>2015,</b>		4

137	Heartbeat detection with Doppler sensor using adaptive scale factor selection on learning <b>2015,</b>		9
136	Interference Alignment in Heterogeneous Networks Using Pico Cell Clustering <b>2015,</b>		3
135	Interference alignment for multi-user MIMO interference channels via a Riemannian optimization approach <b>2015,</b>		3
134	Suppression of multiple interferences for superposed multicarrier transmission <b>2015,</b>		1
133	<b>2015,</b>		5
132	Opinion Mining in Twitter How to Make Use of Sarcasm to Enhance Sentiment Analysis <b>2015,</b>		31
131	Activity recognition using low resolution infrared array sensor <b>2015,</b>		29
130	Ergodic capacity analysis of full-duplex amplify-forward MIMO relay channel using Tracy-Widom distribution <b>2015,</b>		3
129	Signal Eigenvector-Based Device-Free Passive Localization Using Array Sensor. <i>IEEE Transactions on Vehicular Technology</i> , <b>2015</b> , 64, 1354-1363	6.8	36
128	Power-Absorption-Based Model for Power Compensation in WLAN Positioning Using Smartphone. <i>IEICE Transactions on Communications</i> , <b>2015</b> , E98.B, 1125-1132	0.5	1
127	XOR network coding pollution prevention without homomorphic functions <b>2014,</b>		1
126	Mobile-phone indoor localization based on microwave identification using web-access time <b>2014,</b>		1
125	Cell selection for open-access femtocell networks: Learning in changing environment. <i>Physical Communication</i> , <b>2014</b> , 13, 42-52	2.2	5
124	A fall detection system using low resolution infrared array sensor <b>2014,</b>		23
123	Iterative estimation of undesired signal power for superposed multicarrier transmission with channel estimation error <b>2014,</b>		2
122	Capacity of Data Collection in Wireless Sensor Networks Based on Mutual Information and MMSE Estimation <b>2014</b> , 2014, 1-9		2
121	Interference suppression using EM algorithm in OFDM transmissions <b>2014,</b>		4
120	Device-free passive localization from signal subspace eigenvectors <b>2014,</b>		1

119	Blink detection using Doppler sensor <b>2014</b> ,		2
118	Localization calibration using illuminance sensor for pedestrian dead reckoning with smartphones <b>2014</b> ,		1
117	Analytical modeling of cognitive heterogeneous cellular networks over Nakagami-m fading <b>2014</b> ,		1
116	Detecting unexpected fall using array antenna <b>2014</b> ,		2
115	Coalition graph game for multi-hop routing path selection in Cooperative Cognitive Radio Networks <b>2014</b> ,		1
114	A Model Based on Poisson Point Process for Analyzing MIMO Heterogeneous Networks Utilizing Fractional Frequency Reuse. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 6839-6850	9.6	22
113	Stochastic geometry based analytical modeling of cognitive heterogeneous cellular networks <b>2014</b> ,		6
112	Physical layer network coding with multiple untrusted relays for physical layer security <b>2014</b> ,		6
111	Outage probability analysis in bidirectional full-duplex SISO system with self-interference <b>2014</b> ,		3
110	A model based on Poisson point process for downlink . <i>Physical Communication</i> , <b>2014</b> , 13, 3-12	2.2	7
109	Optimal Channel-Sensing Scheme for Cognitive Radio Systems Based on Fuzzy Q-Learning. <i>IEICE Transactions on Communications</i> , <b>2014</b> , E97.B, 283-294	0.5	7
108	Adaptive Q-Learning Cell Selection Method for Open-Access Femtocell Networks: Multi-User Case. <i>IEICE Transactions on Communications</i> , <b>2014</b> , E97.B, 1679-1688	0.5	4
107	Cell range expansion using distributed Q-learning in heterogeneous networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2013</b> , 2013,	3.2	21
106	Hidden Markov Model Based Localization Using Array Antenna. <i>International Journal of Wireless Information Networks</i> , <b>2013</b> , 20, 246-255	1.9	2
105	Cell Range Expansion Using Distributed Q-Learning in Heterogeneous Networks <b>2013</b> ,		19
104	Benefits of Rich Scattering in MIMO Channels: A Graph-Theoretical Perspective. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 23-26	3.8	11
103	Optimal channel-sensing policy based on Fuzzy Q-Learning process over cognitive radio systems <b>2013</b> ,		9
102	Linear Precoding for Distributed Estimation of Correlated Sources in WSN MIMO System <b>2013</b> ,		2

101	A case where noise increases the secrecy capacity of wiretap channels <b>2013</b> ,		1
100	Ambient intelligence sensing using array sensor <b>2013</b> ,		11
99	Development and Performance Evaluation of MMSE MacroDiversity Reception System With Delay Difference Correction. <i>IEEE Transactions on Vehicular Technology</i> , <b>2013</b> , 62, 4288-4298	6.8	0
98	Array sensor: Monitoring using wireless signals <b>2013</b> ,		1
97	Cell selection using distributed Q-learning in heterogeneous networks <b>2013</b> ,		5
96	Cooperative fall detection using Doppler radar and array sensor <b>2013</b> ,		3
95	Human activity classification and localization using bistatic three frequency CW radar <b>2013</b> ,		2
94	Interference detection technique using robust LLR for superposed multicarrier transmission <b>2013</b> ,		5
93	Human activity classification and localization algorithm based on temporal-spatial virtual array <b>2013</b> ,		4
92	Multicast capacity analysis for social-proximity urban bus-assisted VANETs <b>2013</b> ,		18
91	Water-Filling Solution for Distributed Estimation of Correlated Data in WSN MIMO System <b>2013</b> , 2013, 1-7		
90	MIMO Receiver with Antenna Subset Selection: Algorithm and Hardware Implementation. <i>IEICE Transactions on Communications</i> , <b>2013</b> , E96.B, 1039-1050	0.5	1
89	Transparent Inband Feedback for Training-Based MIMO Systems. <i>Wireless Personal Communications</i> , <b>2012</b> , 63, 587-599	1.9	
88	Falling detection using multiple doppler sensors <b>2012</b> ,		19
87	Secure and Fast Aggregation of Financial Data in Cloud-Based Expense Tracking Applications. <i>Journal of Network and Systems Management</i> , <b>2012</b> , 20, 534-560	2.1	12
86	Hardware Implementation of Proposed Antenna Selection Algorithm and Its Performance Evaluation Using Received Signals in Field Experiment <b>2012</b> ,		2
85	Epidemic theory based H + 1 hop forwarding for intermittently connected mobile ad hoc networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2012</b> , 2012,	3.2	5
84	Q-learning cell selection for femtocell networks: Single- and multi-user case <b>2012</b> ,		22

83	Learning-Based Cell Selection Method for Femtocell Networks <b>2012</b> ,		18
82	Joint SVD-GSVD Precoding Technique and Secrecy Capacity Lower Bound for the MIMO Relay Wire-Tap Channel <b>2012</b> ,		7
81	A Multiple-MAC-Based Protocol to Identify Misbehaving Nodes in Network Coding <b>2012</b> ,		3
80	Hidden Markov model based localization using array antenna <b>2012</b> ,		2
79	Wireless security and monitoring system using array antenna: Array sensor <b>2012</b> ,		2
78	A new human model for Doppler radar simulation <b>2012</b> ,		1
77	Epidemic theory based H + 1 hop forwarding for intermittently connected mobile Ad Hoc networks <b>2012</b> ,		2
76	Superposed Band Detection Based on Error Probability Using Initial Likelihood Masking <b>2012</b> ,		7
75	PAPR Reduction of TDD-CDMA Using Joint Transmission Technique. <i>IEICE Transactions on Communications</i> , <b>2012</b> , E95-B, 933-942	0.5	
74	State Classification with Array Sensor Using Support Vector Machine for Wireless Monitoring Systems. <i>IEICE Transactions on Communications</i> , <b>2012</b> , E95.B, 3088-3095	0.5	7
73	Array Antenna based Localization Using Spatial Smoothing Processing. <i>Journal of Communications</i> , <b>2012</b> , 7,	0.5	2
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69	Low Complexity Cyclostationary Feature Detection Method to Compensate Cyclostationarity-Degradation by Guard Interval Insertion <b>2011</b> ,		2
68	Orthogonal beamforming using Gram-Schmidt orthogonalization for multi-user MIMO downlink system. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2011</b> , 2011,	3-2	5
67	Development of MMSE Macro-Diversity Receiver with Delay Difference Correction Technique <b>2011</b> ,		5
66	Internal Threats Avoiding Based Forwarding Protocol in Social Selfish Delay Tolerant Networks <b>2011</b> ,		8

65	2011,			3
64	On Physical Layer Simulation Model for 6-Axis Sensor Assisted VLC Based Positioning System 2011,			6
63	Distributed Angle Estimation for Wireless Sensor Network Localization with Multipath Fading 2011,			2
62	Improving Accuracy for Range-Based Localization in Multiple Target Wireless Sensor Networks. <i>ISRN Communications and Networking</i> , 2011, 2011, 1-7			
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59	Range-free localization algorithm using local expected hop length in wireless sensor network 2010,			6
58	Extrinsic Information Setting for Belief Propagation Decoding with Network Coding 2010,			1
57	Cooperative spectrum sensing techniques using decision comparison for cognitive radio systems including malicious nodes 2010,			1
56	User selection scheme with secrecy capacity between other users in MIMO downlink systems 2010,			2
55	Cooperative ARQ using distributed relay selection and inter-relay opportunistic listening 2010,			1
54	Joint feedback and scheduling scheme for service-differentiated multiuser MIMO systems. <i>IEEE Transactions on Wireless Communications</i> , 2010, 9, 528-533	9.6		5
53	Performance evaluation of iterative LDPC-coded MIMO OFDM system with time interleaving in mobile line-of-sight environments 2010,			3
52	Multi-Band Received Signal Strength Fingerprinting Based Indoor Location System. <i>IEICE Transactions on Communications</i> , 2010, E93-B, 1993-2003	0.5		3
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50	Half-duplex relaying with serially concatenated low-density generator matrix (SCLDGM) codes. <i>Physical Communication</i> , 2010, 3, 129-135	2.2		
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48	Detection performance of security system using radio waves based on space-time signal processing. <i>Procedia, Social and Behavioral Sciences</i> , 2010, 2, 171-178			6

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46	Signal-subspace-partition event filtering for eigenvector-based security system using radio waves <b>2009</b> ,		4
45	Cooperative Diversity Can Mitigate Keyhole Effects in Wireless MIMO Systems <b>2009</b> ,		4
44	An improved user selection algorithm in multiuser MIMO broadcast <b>2009</b> ,		3
43	Turbo Equalized Double Window Cancellation and Combining Robust to Large Delay Spread Channel. <i>IEICE Transactions on Communications</i> , <b>2009</b> , E92-B, 517-526	0.5	
42	Indoor Event Detection with Eigenvector Spanning Signal Subspace for Home or Office Security. <i>IEICE Transactions on Communications</i> , <b>2009</b> , E92-B, 2406-2412	0.5	19
41	Random Beamforming Using Iterative Power Allocation with Small Feedback Information and Low Latency. <i>IEICE Transactions on Communications</i> , <b>2009</b> , E92-B, 1908-1911	0.5	
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39	RSS-Based Localization in Environments with Different Path Loss Exponent for Each Link. <i>IEEE Vehicular Technology Conference</i> , <b>2008</b> ,	0.1	22
38	Indoor Event Detection with Eigenvector Spanning Signal Subspace for Home or Office Security <b>2008</b> ,		14
37	A Random Beamforming Technique in Multiuser Multi-Antenna OFDM Systems For Large System Capacity and Fairness Among Users <b>2008</b> ,		1
36	Low Complexity Localization Algorithm Based on NLOS Node Identification Using Minimum Subset for NLOS Environments <b>2008</b> ,		7
35	An Indoor Position Estimation Method by Maximum Likelihood Algorithm Using Received Signal Strength. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2008</b> , 1, 251-256	0.3	5
34	On Construction of Concatenated Low-Density Generator Matrix Codes <b>2007</b> ,		1
33	MultiBand-OFDM System with Concatenated Coding Scheme. <i>IEEE Vehicular Technology Conference</i> , <b>2007</b> ,	0.1	1
32	Scheduling Algorithm with Power Allocation for Random Unitary Beamforming. <i>IEEE Vehicular Technology Conference</i> , <b>2007</b> ,	0.1	1
31	Isomorphic Constructions of Tail-Biting Trellises for Linear Block Codes <b>2007</b> ,		1
30	Effect of Imperfect Channel Estimation on the Performance of UWB-IR with Frequency-Domain Equalization (FDE) and Cyclic Prefix (CP) Reconstruction <b>2007</b> ,		1



29	Precoding for MIMO Systems in Line-Of-Sight (LOS) Environment <b>2007</b> ,		5
28	. <i>Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007</i> ,		4
27	Distributed EM Algorithms for Acoustic Source Localization in Sensor Networks <b>2006</b> ,		7
26	WLC36-2: Convergence Acceleration of Iterative Signal Detection for MIMO System with Belief Propagation. <i>IEEE Global Telecommunications Conference (GLOBECOM), 2006</i> ,		4
25	WLC16-2: Reliability-Based Hybrid ARQ (RB-HARQ) Schemes using Low-Density Parity-Check (LDPC) Codes. <i>IEEE Global Telecommunications Conference (GLOBECOM), 2006</i> ,		1
24	Performance of Concatenated Code with LDPC Code and RSC Code <b>2006</b> ,		3
23	MIMO Systems in the Presence of Feedback Delay <b>2006</b> ,		8
22	MMSE Precoder with Mode Selection for MIMO Systems <b>2006</b> ,		3
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17	. <i>IEEE Transactions on Communications</i> , <b>2005</b> , 53, 1738-1743	6.9	24
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10	Performance analysis of indoor infrared wireless systems using PPM CDMA. <i>Electronics and Communications in Japan</i> , <b>2002</b> , 85, 1-10		6
9	Rate-adaptive indoor infrared wireless communication systems using punctured convolutional codes and adaptive PPM. <i>Electronics and Communications in Japan</i> , <b>2001</b> , 84, 31-39		
8	Optical code division multiplex system with multiphase mapping. <i>Electronics and Communications in Japan</i> , <b>2001</b> , 84, 27-38		
7	An optical synchronous M-ary FSK/CDMA system using an interference canceler. <i>Electronics and Communications in Japan</i> , <b>2000</b> , 83, 20-32		8
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