

# Tomoaki Ohtsuki

## List of Publications by Citations

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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	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
297	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
296	A Pattern-Based Approach for Sarcasm Detection on Twitter. <i>IEEE Access</i> , <b>2016</b> , 4, 5477-5488	3.5	102
295	A Pattern-Based Approach for Multi-Class Sentiment Analysis in Twitter. <i>IEEE Access</i> , <b>2017</b> , 5, 20617-20639	3.5	69
294	Performance analysis of direct-detection optical asynchronous CDMA systems with double optical hard-limiters. <i>Journal of Lightwave Technology</i> , <b>1997</b> , 15, 452-457	4	56
293	Performance analysis of atmospheric optical PPM CDMA systems. <i>Journal of Lightwave Technology</i> , <b>2003</b> , 21, 406-411	4	50
292	On Physical Layer Security of $\alpha$ - $\eta$ - $\kappa$ - $\mu$ Fading Channels. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 2168-2171	3.8	38
291	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
290	Multi-class sentiment analysis on twitter: Classification performance and challenges. <i>Big Data Mining and Analytics</i> , <b>2019</b> , 2, 181-194	4.3	35
289	Direct-detection optical synchronous CDMA systems with double optical hard-limiters using modified prime sequence codes. <i>IEEE Journal on Selected Areas in Communications</i> , <b>1996</b> , 14, 1879-1887	14.2	35
288	A Novel Methodology for HYIP Operators Bitcoin Addresses Identification. <i>IEEE Access</i> , <b>2019</b> , 7, 74835-74848	3.5	33
287	Opinion Mining in Twitter How to Make Use of Sarcasm to Enhance Sentiment Analysis <b>2015</b> ,		31
286	Activity recognition using low resolution infrared array sensor <b>2015</b> ,		29
285	Green Heterogeneous Networks via an Intelligent Sleep/Wake-Up Mechanism and D2D Communications. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2018</b> , 2, 915-931	4	28
284	Identification of High Yielding Investment Programs in Bitcoin via Transactions Pattern Analysis <b>2017</b> ,		27
283	. <i>IEEE Access</i> , <b>2018</b> , 6, 64486-64502	3.5	27
282	Intersection-based forwarding protocol for vehicular ad hoc networks. <i>Telecommunication Systems</i> , <b>2016</b> , 62, 67-76	2.3	24

281	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
280	. <i>IEEE Transactions on Communications</i> , <b>2005</b> , 53, 1738-1743	6.9	24
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	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 2305-2317	14.2	24
277	A fall detection system using low resolution infrared array sensor <b>2014</b> ,		23
276	6-Axis Sensor Assisted Low Complexity High Accuracy-Visible Light Communication Based Indoor Positioning System. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 2879-2891	0.5	23
275	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
274	Q-learning cell selection for femtocell networks: Single- and multi-user case <b>2012</b> ,		22
273	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
272	BER performance of turbo-coded PPM CDMA systems on optical fiber. <i>Journal of Lightwave Technology</i> , <b>2000</b> , 18, 1776-1784	4	22
271	<b>2016</b> ,		21
270	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
269	Heartbeat detection by using Doppler radar with wavelet transform based on scale factor learning <b>2015</b> ,		21
268	Multi-Class Bitcoin-Enabled Service Identification Based on Transaction History Summarization <b>2018</b> ,		21
267	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
266	Cell Range Expansion Using Distributed Q-Learning in Heterogeneous Networks <b>2013</b> ,		19
265	Falling detection using multiple doppler sensors <b>2012</b> ,		19
264	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

263	Heartbeat detection with Doppler radar based on spectrogram <b>2017</b> ,		18
262	Learning-Based Cell Selection Method for Femtocell Networks <b>2012</b> ,		18
261	Multicast capacity analysis for social-proximity urban bus-assisted VANETs <b>2013</b> ,		18
260	. <i>Journal of Lightwave Technology</i> , <b>1998</b> , 16, 520-526	4	18
259	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
258	Blind Source Separation on Non-Contact Heartbeat Detection by Non-Negative Matrix Factorization Algorithms. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 482-494	5	18
257	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
256	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
255	A Lower Bound on Secrecy Capacity for MIMO Wiretap Channel Aided by a Cooperative Jammer With Channel Estimation Error. <i>IEEE Access</i> , <b>2017</b> , 5, 4636-4645	3.5	16
254	A new load balancing and data collection algorithm for energy saving in wireless sensor networks. <i>Telecommunication Systems</i> , <b>2010</b> , 45, 313-322	2.3	16
253	Spectrogram-Based Non-Contact RRI Estimation by Accurate Peak Detection Algorithm. <i>IEEE Access</i> , <b>2018</b> , 6, 60369-60379	3.5	15
252	Indoor Event Detection with Eigenvector Spanning Signal Subspace for Home or Office Security <b>2008</b> ,		14
251	Evaluating smart grid renewable energy accommodation capability with uncertain generation using deep reinforcement learning. <i>Future Generation Computer Systems</i> , <b>2020</b> , 110, 647-657	7.5	14
250	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
249	Secrecy Performance Analysis of Wireless Sensor Networks <b>2019</b> , 3, 1-4		13
248	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 673-684	6.8	13
247	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
246	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

245	Coordinated Non-Orthogonal Multiple Access (CO-NOMA) <b>2016,</b>		12
244	Identification of Darknet Markets Bitcoin Addresses by Voting Per-address Classification Results <b>2019,</b>		11
243	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
242	Ambient intelligence sensing using array sensor <b>2013,</b>		11
241	Performance analysis of atmospheric optical subcarrier-multiplexing systems and atmospheric optical subcarrier-Modulated code-division multiplexing systems. <i>Journal of Lightwave Technology</i> , <b>2005</b> , 23, 1676-1682	4	11
240	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
239	Sentiment Analysis in Twitter: From Classification to Quantification of Sentiments within Tweets <b>2016,</b>		11
238	An Efficient Intrusion Detection Method Based on Dynamic Autoencoder. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 1707-1711	5.9	11
237	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
236	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
235	Heartbeat detection with Doppler radar based on estimation of average R-R interval using Viterbi algorithm <b>2016,</b>		10
234	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
233	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
232	Heartbeat detection with Doppler sensor using adaptive scale factor selection on learning <b>2015,</b>		9
231	Optimal channel-sensing policy based on Fuzzy Q-Learning process over cognitive radio systems <b>2013,</b>		9
230	Performance Analysis of LDPC Code with Spatial Diversity <b>2006,</b>		9
229	Recovery of Block-Structured Sparse Signal Using Block-Sparse Adaptive Algorithms via Dynamic Grouping. <i>IEEE Access</i> , <b>2018</b> , 6, 56069-56083	3.5	9
228	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

227	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
226	Internal Threats Avoiding Based Forwarding Protocol in Social Selfish Delay Tolerant Networks <b>2011</b> ,		8
225	MIMO Systems in the Presence of Feedback Delay <b>2006</b> ,		8
224	Direct-detection optical CDMA receiver with interference estimation and double optical hardlimiters. <i>Journal of Lightwave Technology</i> , <b>2003</b> , 21, 2182-2188	4	8
223	Parallel combinatory multiple-subcarrier optical wireless communication systems. <i>International Journal of Communication Systems</i> , <b>2005</b> , 18, 195-203	1.7	8
222	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
221	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
220	Multiple Radios for Fast Rendezvous in Heterogeneous Cognitive Radio Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 37342-37359	3.5	7
219	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
218	Novel Unsupervised SPITters Detection Scheme by Automatically Solving Unbalanced Situation. <i>IEEE Access</i> , <b>2017</b> , 5, 6746-6756	3.5	7
217	A Smart City Based on Ambient Intelligence. <i>IEICE Transactions on Communications</i> , <b>2017</b> , E100.B, 1547-1553	6.5	7
216	A model based on Poisson point process for downlink . <i>Physical Communication</i> , <b>2014</b> , 13, 3-12	2.2	7
215	Joint SVD-GSVD Precoding Technique and Secrecy Capacity Lower Bound for the MIMO Relay Wire-Tap Channel <b>2012</b> ,		7
214	Superposed Band Detection Based on Error Probability Using Initial Likelihood Masking <b>2012</b> ,		7
213	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
212	Low Complexity Localization Algorithm Based on NLOS Node Identification Using Minimum Subset for NLOS Environments <b>2008</b> ,		7
211	Distributed EM Algorithms for Acoustic Source Localization in Sensor Networks <b>2006</b> ,		7
210	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

209	. <i>IEEE Wireless Communications</i> , <b>2020</b> , 27, 122-128	13.4	7
208	Room-level proximity detection based on RSS of dual-band Wi-Fi signals <b>2016</b> ,		7
207	Energy Efficiency Analysis in Cache-Enabled D2D-Aided Heterogeneous Cellular Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 19540-19554	3.5	6
206	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
205	<b>2017</b> ,		6
204	Energy-Efficient Channel Hopping Protocol for Cognitive Radio Networks <b>2017</b> ,		6
203	Performance Analysis of Physical Layer Security over Rician/Nakagami-m Fading Channels <b>2017</b> ,		6
202	Design of privacy-preserving mobile Bitcoin client based on Deniability enabled bloom filter <b>2017</b> ,		6
201	Stochastic geometry based analytical modeling of cognitive heterogeneous cellular networks <b>2014</b> ,		6
200	Physical layer network coding with multiple untrusted relays for physical layer security <b>2014</b> ,		6
199	Range-free localization algorithm using local expected hop length in wireless sensor network <b>2010</b> ,		6
198	On Physical Layer Simulation Model for 6-Axis Sensor Assisted VLC Based Positioning System <b>2011</b> ,		6
197	Detection performance of security system using radio waves based on space-time signal processing. <i>Procedia, Social and Behavioral Sciences</i> , <b>2010</b> , 2, 171-178		6
196	Performance analysis of indoor infrared wireless systems using PPM CDMA. <i>Electronics and Communications in Japan</i> , <b>2002</b> , 85, 1-10		6
195	Optical Wireless Sensor Network System Using Corner Cube Retroreflectors. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2005</b> , 2005, 1	3.2	6
194	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
193	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
192	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

191	Precoding Aided Generalized Spatial Modulation With an Iterative Greedy Algorithm. <i>IEEE Access</i> , <b>2018</b> , 6, 72449-72457	3.5	6
190	IGMM-Based Co-Localization of Mobile Users With Ambient Radio Signals. <i>IEEE Internet of Things Journal</i> , <b>2017</b> , 4, 308-319	10.7	5
189	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
188	Cell selection for open-access femtocell networks: Learning in changing environment. <i>Physical Communication</i> , <b>2014</b> , 13, 42-52	2.2	5
187	Service-aware user-centric clustering and scheduling for cloud-RAN with coordinated multi-point transmission <b>2015</b> ,		5
186	<b>2015</b> ,		5
185	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
184	Cell selection using distributed Q-learning in heterogeneous networks <b>2013</b> ,		5
183	Interference detection technique using robust LLR for superposed multicarrier transmission <b>2013</b> ,		5
182	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
181	Joint feedback and scheduling scheme for service-differentiated multiuser MIMO systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2010</b> , 9, 528-533	9.6	5
180	Development of MMSE Macro-Diversity Receiver with Delay Difference Correction Technique <b>2011</b> ,		5
179	Precoding for MIMO Systems in Line-Of-Sight (LOS) Environment <b>2007</b> ,		5
178	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
177	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
176	Biometric authentication using hand movement information from wrist-worn PPG sensors <b>2016</b> ,		5
175	Interference alignment and power allocation for multi-user MIMO interference channels <b>2016</b> ,		5
174	Time Series Analysis for Bitcoin Transactions: The Case of Pirate@40's HYIP Scheme <b>2018</b> ,		5



173	Smart Energy Harvesting for Internet of Things <b>2018</b> ,		5
172	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
171	Polynomial Networks Representation of Nonlinear Mixtures with Application in Underdetermined Blind Source Separation <b>2019</b> ,		4
170	Antenna Parameters Optimization in Self-Organizing Networks: Multi-Armed Bandits with Pareto Search <b>2017</b> ,		4
169	Graph Coloring-Based Pilot Reuse with AOA and Distance in D2D Underlay Massive MIMO <b>2018</b> ,		4
168	Green heterogeneous networks via an intelligent power control strategy and D2D communications <b>2017</b> ,		4
167	Room-level proximity detection using beacon frame from multiple access points <b>2015</b> ,		4
166	Complexity reduction of pico cell clustering for interference alignment in heterogeneous networks <b>2015</b> ,		4
165	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
164	<b>2015</b> ,		4
163	Interference suppression using EM algorithm in OFDM transmissions <b>2014</b> ,		4
162	Human activity classification and localization algorithm based on temporal-spatial virtual array <b>2013</b> ,		4
161	Codebook Based Interference Mitigation with Base Station Cooperation in Multi-Cell Cellular Network <b>2011</b> ,		4
160	Signal-subspace-partition event filtering for eigenvector-based security system using radio waves <b>2009</b> ,		4
159	Cooperative Diversity Can Mitigate Keyhole Effects in Wireless MIMO Systems <b>2009</b> ,		4
158	WLC36-2: Convergence Acceleration of Iterative Signal Detection for MIMO System with Belief Propagation. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , <b>2006</b> ,		4
157	. <i>Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE</i> , <b>2007</b> ,		4
156	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

155	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
154	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</i> , <b>2020</b> , 2020, 616-620	0.9	4
153	A Novel Approach based on Lightweight Deep Neural Network for Network Intrusion Detection <b>2021</b> ,		4
152	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
151	Improvement of Blink Detection Using a Doppler Sensor Based on CFAR Processing <b>2016</b> ,		4
150	QoE and throughput aware radio resource allocation algorithm in LTE network with users using different applications <b>2016</b> ,		4
149	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
148	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
147	Nonlinear Blind Source Separation Unifying Vanishing Component Analysis and Temporal Structure. <i>IEEE Access</i> , <b>2018</b> , 6, 42837-42850	3.5	4
146	Non-Contact Heartbeat Detection by MUSIC with Discrete Cosine Transform-Based Parameter Adjustment <b>2018</b> ,		4
145	Robust Heartbeat Detection with Doppler Radar Based on Stochastic Gradient Approach <b>2018</b> ,		4
144	. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2017</b> , 1, 131-144	4	3
143	Orthogonality Structure Designs for Generalized Precoding Aided Spatial Modulation. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 1406-1409	5.9	3
142	Doppler Sensor-Based Blink Duration Estimation by Analysis of Eyelids Closing and Opening Behavior on Spectrogram. <i>IEEE Access</i> , <b>2019</b> , 7, 42726-42734	3.5	3
141	Secure outage probability over fading channels <b>2017</b> ,		3
140	Exploiting Interference for Capacity Improvement in Software-Defined Vehicular Networks. <i>IEEE Access</i> , <b>2017</b> , 5, 10662-10673	3.5	3
139	Dynamic almost blank subframe assignment method with power control subframe for user fairness <b>2015</b> ,		3
138	Interference Alignment in Heterogeneous Networks Using Pico Cell Clustering <b>2015</b> ,		3

137	Interference alignment for multi-user MIMO interference channels via a Riemannian optimization approach <b>2015,</b>		3
136	Ergodic capacity analysis of full-duplex amplify-forward MIMO relay channel using Tracy-Widom distribution <b>2015,</b>		3
135	Outage probability analysis in bidirectional full-duplex SISO system with self-interference <b>2014,</b>		3
134	Cooperative fall detection using Doppler radar and array sensor <b>2013,</b>		3
133	Robust DOA Estimation for Uncorrelated and Coherent Signals. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2011</b> , E94-A, 2035-2038	0.4	3
132	Performance evaluation of iterative LDPC-coded MIMO OFDM system with time interleaving in mobile line-of-sight environments <b>2010,</b>		3
131	<b>2011,</b>		3
130	A Multiple-MAC-Based Protocol to Identify Misbehaving Nodes in Network Coding <b>2012,</b>		3
129	An improved user selection algorithm in multiuser MIMO broadcast <b>2009,</b>		3
128	Multi-Band Received Signal Strength Fingerprinting Based Indoor Location System. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 1993-2003	0.5	3
127	User selection scheme with secrecy capacity in MIMO downlink systems. <i>Procedia, Social and Behavioral Sciences</i> , <b>2010</b> , 2, 161-170		3
126	Performance of Concatenated Code with LDPC Code and RSC Code <b>2006,</b>		3
125	MMSE Precoder with Mode Selection for MIMO Systems <b>2006,</b>		3
124	Low complexity source localization algorithms in sensor networks <b>2005,</b>		3
123	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 69, 2629-2641	4.1	3
122	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
121	Doppler Analysis Based Fall Detection Using Array Antenna <b>2018,</b>		3
120	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

119	Non-Negative Matrix Factorization-Based Blind Source Separation for Non-Contact Heartbeat Detection <b>2019</b> ,		2
118	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
117	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
116	Underdetermined Blind Source Separation With Multi-Subspace for Nonlinear Representation. <i>IEEE Access</i> , <b>2019</b> , 7, 84545-84557	3.5	2
115	Iterative estimation of undesired signal power for superposed multicarrier transmission with channel estimation error <b>2014</b> ,		2
114	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
113	Fair Pilot Assignment Based on AOA and Pathloss with Location Information in Massive MIMO <b>2017</b> ,		2
112	Secure Channel Selection Using Multi-Armed Bandit Algorithm in Cognitive Radio Network <b>2017</b> ,		2
111	Capacity of Data Collection in Wireless Sensor Networks Based on Mutual Information and MMSE Estimation <b>2014</b> , 2014, 1-9		2
110	Blink detection using Doppler sensor <b>2014</b> ,		2
109	Detecting unexpected fall using array antenna <b>2014</b> ,		2
108	Hardware Implementation of Proposed Antenna Selection Algorithm and Its Performance Evaluation Using Received Signals in Field Experiment <b>2012</b> ,		2
107	Linear Precoding for Distributed Estimation of Correlated Sources in WSN MIMO System <b>2013</b> ,		2
106	Human activity classification and localization using bistatic three frequency CW radar <b>2013</b> ,		2
105	Low Complexity Cyclostationary Feature Detection Method to Compensate Cyclostationarity-Degradation by Guard Interval Insertion <b>2011</b> ,		2
104	User selection scheme with secrecy capacity between other users in MIMO downlink systems <b>2010</b> ,		2
103	Distributed Angle Estimation for Wireless Sensor Network Localization with Multipath Fading <b>2011</b> ,		2
102	Hidden Markov model based localization using array antenna <b>2012</b> ,		2

101	Wireless security and monitoring system using array antenna: Array sensor <b>2012</b> ,		2
100	Epidemic theory based H + 1 hop forwarding for intermittently connected mobile Ad Hoc networks <b>2012</b> ,		2
99	A study of transmitted pulse waveforms on indoor infrared wireless communications via diffuse links. <i>Electronics and Communications in Japan</i> , <b>2000</b> , 83, 33-43		2
98	Array Antenna based Localization Using Spatial Smoothing Processing. <i>Journal of Communications</i> , <b>2012</b> , 7,	0.5	2
97	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
96	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
95	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</i> , <b>2020</b> , 2020, 502-505	0.9	2
94	Spectrum-Aware Energy Efficiency Analysis in K-tier 5G HetNets. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 839	2.6	2
93	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
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91	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
90	FMCW Radar-Based Anomaly Detection in Toilet by Supervised Machine Learning Classifier <b>2019</b> ,		2
89	Overloaded Wireless MIMO Switching for Secure Wireless Communication Exchanging to Untrusted Relay <b>2019</b> ,		2
88	Low Complexity and High Accuracy Channel Interpolation with Dividing URA into Small URAs for 3D Massive MIMO <b>2019</b> ,		2
87	Enhanced Channel Hopping Algorithm for Heterogeneous Cognitive Radio Networks <b>2018</b> ,		2
86	Learning-Based Optimal Channel Selection in the Presence of Jammer for Cognitive Radio Networks <b>2018</b> ,		2
85	Fall Detection Using UHF Passive RFID Based on the Neighborhood Preservation Principle <b>2018</b> ,		2
84	A Low-Complexity High-Accuracy AR Based Channel Prediction Method for Interference Alignment <b>2018</b> ,		2

83	Secure information sharing with mirroring null steering through untrusted relay with two antennas <b>2018,</b>		2
82	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
81	Activity Detection using 2D LIDAR for Healthcare and Monitoring <b>2021,</b>		2
80	Precoding Aided Generalized Spatial Modulation with K Transmit Antenna Groups <b>2019,</b>		1
79	Spectrogram-Based Simultaneous Heartbeat and Blink Detection using Doppler Sensor <b>2019,</b>		1
78	Monitoring Techniques with Radio Waves. <i>IEICE Communications Society Magazine</i> , <b>2017</b> , 11, 24-29	0	1
77	XOR network coding pollution prevention without homomorphic functions <b>2014,</b>		1
76	Mobile-phone indoor localization based on microwave identification using web-access time <b>2014,</b>		1
75	Joint SDA-MAP Estimation of Channel and Interference Power in Superposed OFDM Transmission <b>2017,</b>		1
74	Driver's blink detection using Doppler sensor <b>2017,</b>		1
73	Performance evaluation of the physical layer security using artificial noise and relay station <b>2015,</b>		1
72	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
71	Suppression of multiple interferences for superposed multicarrier transmission <b>2015,</b>		1
70	Device-free passive localization from signal subspace eigenvectors <b>2014,</b>		1
69	Localization calibration using illuminance sensor for pedestrian dead reckoning with smartphones <b>2014,</b>		1
68	Analytical modeling of cognitive heterogeneous cellular networks over Nakagami-m fading <b>2014,</b>		1
67	Coalition graph game for multi-hop routing path selection in Cooperative Cognitive Radio Networks <b>2014,</b>		1
66	A case where noise increases the secrecy capacity of wiretap channels <b>2013,</b>		1

65	Array sensor: Monitoring using wireless signals <b>2013</b> ,		1
64	Extrinsic Information Setting for Belief Propagation Decoding with Network Coding <b>2010</b> ,		1
63	Cooperative spectrum sensing techniques using decision comparison for cognitive radio systems including malicious nodes <b>2010</b> ,		1
62	Cooperative ARQ using distributed relay selection and inter-relay opportunistic listening <b>2010</b> ,		1
61	A new human model for Doppler radar simulation <b>2012</b> ,		1
60	A Random Beamforming Technique in Multiuser Multi-Antenna OFDM Systems For Large System Capacity and Fairness Among Users <b>2008</b> ,		1
59	On Construction of Concatenated Low-Density Generator Matrix Codes <b>2007</b> ,		1
58	MultiBand-OFDM System with Concatenated Coding Scheme. <i>IEEE Vehicular Technology Conference</i> , <b>2007</b> ,	0.1	1
57	Scheduling Algorithm with Power Allocation for Random Unitary Beamforming. <i>IEEE Vehicular Technology Conference</i> , <b>2007</b> ,	0.1	1
56	Isomorphic Constructions of Tail-Biting Trellises for Linear Block Codes <b>2007</b> ,		1
55	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
54	WLC16-2: Reliability-Based Hybrid ARQ (RB-HARQ) Schemes using Low-Density Parity-Check (LDPC) Codes. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , <b>2006</b> ,		1
53	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
52	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
51	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
50	An Improved User Selection Algorithm in Multiuser MIMO Broadcast with Channel Prediction. <i>IEICE Transactions on Communications</i> , <b>2009</b> , E92-B, 2667-2674	0.5	1
49	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
48	Multi-Configuration Selection Mechanisms and Analog Precoding for Signature Spatial Modulation <b>2020</b> ,		1

47	Damping Factor Learning of BP Detection with Node Selection in Massive MIMO using Neural Network <b>2020</b> ,		1
46	<b>2020</b> ,		1
45	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</i> , 2020, 4151-4155	0.9	1
44	Discrete Polar Decoder using Information Bottleneck Method <b>2020</b> ,		1
43	Noncontact Heartbeat Detection by Viterbi Algorithm with Fusion of Beat-Beat Interval and Deep Learning-Driven Branch Metrics <b>2021</b> ,		1
42	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, 2019</i> , 2019, 796-799	0.9	1
41	Make Smart Decisions Faster: Deciding D2D Resource Allocation via Stackelberg Game Guided Multi-Agent Deep Reinforcement Learning. <i>IEEE Transactions on Mobile Computing, 2021</i> , 1-1	4.6	1
40	Edge Device Identification Based on Federated Learning and Network Traffic Feature Engineering. <i>IEEE Transactions on Cognitive Communications and Networking, 2021</i> , 1-1	6.6	1
39	Smart Image-Processing based Energy Harvesting for Green Internet of Things <b>2018</b> ,		1
38	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</i> , 2018, 1-6	0.9	1
37	Semi-Supervised Federated Learning Based Intrusion Detection Method for Internet of Things. <i>IEEE Internet of Things Journal, 2022</i> , 1-1	10.7	1
36	Development and Performance Evaluation of MMSE MacroDiversity Reception System With Delay Difference Correction. <i>IEEE Transactions on Vehicular Technology, 2013</i> , 62, 4288-4298	6.8	0
35	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, 2021</i> , 2021, 434-438	0.9	0
34	An Adaptive Vehicle Clustering Algorithm Based on Power Minimization in Vehicular Ad-hoc Networks. <i>IEEE Transactions on Vehicular Technology, 2022</i> , 1-1	6.8	0
33	Performance Evaluation of Iterative LDPC-Coded MIMO OFDM System with Time Interleaving. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010</i> , E93-A, 2654-2662	0.4	0
32	Discrete BP Polar Decoder Using Information Bottleneck Method. <i>IEEE Access, 2021</i> , 9, 10645-10656	3.5	0
31	Spatial Degrees of Freedom Exploration and Analog Beamforming Designs for Signature Spatial Modulation. <i>IEICE Transactions on Communications, 2021</i> , E104.B, 934-941	0.5	0
30	Constructing Mobile Crowdsourced COVID-19 Vulnerability Map with Geo-Indistinguishability. <i>IEEE Internet of Things Journal, 2022</i> , 1-1	10.7	0



29	Transparent Inband Feedback for Training-Based MIMO Systems. <i>Wireless Personal Communications</i> , <b>2012</b> , 63, 587-599	1.9
28	Water-Filling Solution for Distributed Estimation of Correlated Data in WSN MIMO System <b>2013</b> , 2013, 1-7	
27	Subcarrier Mapping for Single-User SC-FDMA Relay Communications. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2011</b> , E94-A, 2776-2779	0.4
26	PAPR Reduction of TDD-CDMA Using Joint Transmission Technique. <i>IEICE Transactions on Communications</i> , <b>2012</b> , E95-B, 933-942	0.5
25	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
24	Half-duplex relaying with serially concatenated low-density generator matrix (SCLDGM) codes. <i>Physical Communication</i> , <b>2010</b> , 3, 129-135	2.2
23	Performance evaluation of OFDM with a nonlinear distortion compensation technique using partial transmit sequence and predistortion. <i>Electronics and Communications in Japan</i> , <b>2004</b> , 87, 34-42	
22	Design criteria for space-time trellis codes based on product distance distribution and trace distribution in fast fading channels. <i>Electronics and Communications in Japan</i> , <b>2005</b> , 88, 54-64	
21	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	
20	Optical code division multiplex system with multiphase mapping. <i>Electronics and Communications in Japan</i> , <b>2001</b> , 84, 27-38	
19	Polarization shift keying (POLSK) phase diversity homodyne system with multiplying detection in coherent optical communications. <i>Fiber and Integrated Optics</i> , <b>1993</b> , 12, 381-395	0.8
18	Multibeam Doppler Sensor-based Non-contact Heartbeat Detection Using Beam Diversity. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5
17	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
16	MIMO. <i>Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers</i> , <b>2006</b> , 60, 1766-1768	0
15	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
14	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
13	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
12	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

11	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
10	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
9	Improving Accuracy for Range-Based Localization in Multiple Target Wireless Sensor Networks. <i>ISRN Communications and Networking</i> , <b>2011</b> , 2011, 1-7	
8	Typical Set Cognitive Sensing. <i>ISRN Communications and Networking</i> , <b>2011</b> , 2011, 1-10	
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