Taufik Abrao

List of Publications by Year
in descending order

225	2,211	304743	330143
papers	citations	22	37
		h-index	g-index

225	225	225	2236
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Network Anomaly Detection System using Genetic Algorithm and Fuzzy Logic. Expert Systems With Applications, 2018, 92, 390-402.	7.6	183
2	Modeling competitive metal sorption in a mineral soil. Geoderma, 2009, 149, 189-198.	5.1	81
3	Energy Efficient OFDMA Networks Maintaining Statistical QoS Guarantees for Delay-Sensitive Traffic. IEEE Access, 2016, 4, 774-791.	4.2	80
4	Massive MIMO for Internet of Things (IoT) connectivity. Physical Communication, 2019, 37, 100859.	2.1	77
5	Faults in smart grid systems: Monitoring, detection and classification. Electric Power Systems Research, 2020, 189, 106602.	3.6	77
6	Cadmium mobility in sediments and soils from a coal mining area on Tibagi River watershed: Environmental risk assessment. Journal of Hazardous Materials, 2014, 265, 280-287.	12.4	62
7	Sorption-desorption of selenite and selenate on Mg-Al layered double hydroxide in competition with nitrate, sulfate and phosphate. Chemosphere, 2017, 181, 627-634.	8.2	61
8	A Game Theoretical Based System Using Holt-Winters and Genetic Algorithm With Fuzzy Logic for DoS/DDoS Mitigation on SDN Networks. IEEE Access, 2017, 5, 9485-9496.	4.2	54
9	An ecosystem for anomaly detection and mitigation in software-defined networking. Expert Systems With Applications, 2018, 104, 121-133.	7.6	53
10	Direction-of-Arrival Estimation Methods: A Performance-Complexity Tradeoff Perspective. Journal of Signal Processing Systems, 2020, 92, 239-256.	2.1	41
11	Antenna Selection for Improving Energy Efficiency in XL-MIMO Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 13305-13318.	6.3	38
12	Coordination of distance and directional overcurrent relays using an extended continuous domain ACO algorithm and an hybrid ACO algorithm. Electric Power Systems Research, 2019, 170, 259-272.	3.6	37
13	A NOMA-Based Q-Learning Random Access Method for Machine Type Communications. IEEE Wireless Communications Letters, 2020, 9, 1720-1724.	5.0	37
14	Lanthanide sorption on smectitic clays in presence of cement leachates. Geochimica Et Cosmochimica Acta, 2010, 74, 862-875.	3.9	36
15	Distributed power control algorithm for multiple access systems based on Verhulst model. AEU - International Journal of Electronics and Communications, 2011, 65, 361-372.	2.9	28
16	Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks. IEEE Sensors Journal, 2013, 13, 4375-4386.	4.7	28
17	Energy-Efficient Power Allocation for WDM/OCDM Networks With Particle Swarm Optimization. Journal of Optical Communications and Networking, 2013, 5, 512.	4.8	27
18	Sorption–desorption of antimony species onto calcined hydrotalcite: Surface structure and control of competitive anions. Journal of Hazardous Materials, 2018, 344, 649-656.	12.4	26

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19	Fast Defense System Against Attacks in Software Defined Networks. IEEE Access, 2018, 6, 69620-69639.	4.2	26
20	Pilot distribution optimization in multi-cellular large scale MIMO systems. AEU - International Journal of Electronics and Communications, 2016, 70, 1094-1103.	2.9	24
21	Power allocation in multibeam satellites based on particle swarm optimization. AEU - International Journal of Electronics and Communications, 2017, 78, 124-133.	2.9	24
22	Particle Swarm and Quantum Particle Swarm Optimization Applied to DS/CDMA Multiuser Detection in Flat Rayleigh Channels. , 2006, , .		23
23	WDM/OCDM Energy-Efficient Networks Based on Heuristic Ant Colony Optimization. IEEE Systems Journal, 2016, 10, 1482-1493.	4.6	23
24	FBMC Prototype Filter Design via Convex Optimization. IEEE Transactions on Vehicular Technology, 2019, 68, 393-404.	6.3	20
25	Ant colony input parameters optimization for multiuser detection in DS/CDMA systems. Expert Systems With Applications, 2012, 39, 12876-12884.	7.6	19
26	Input Back-Off Optimization in OFDM Systems Under Ideal Pre-Distorters. IEEE Wireless Communications Letters, 2016, 5, 464-467.	5.0	19
27	Linear, Quadratic, and Semidefinite Programming Massive MIMO Detectors: Reliability and Complexity. IEEE Access, 2019, 7, 29506-29519.	4.2	19
28	Adaptive current harmonic estimation under fault conditions for smart grid systems. Electric Power Systems Research, 2020, 183, 106276.	3.6	19
29	Machine learning–based models for spectrum sensing in cooperative radio networks. IET Communications, 2020, 14, 3102-3109.	2.2	19
30	Distributed SNIR Optimization Based on the Verhulst Model in Optical Code Path Routed Networks With Physical Constraints. Journal of Optical Communications and Networking, 2011, 3, 683.	4.8	18
31	Hybrid heuristic-waterfilling game theory approach in MC-CDMA resource allocation. Applied Soft Computing Journal, 2012, 12, 1902-1912.	7.2	17
32	Spectrum Sensing Methods for Cognitive Radio Networks: A Review. Wireless Personal Communications, 2017, 95, 5003-5037.	2.7	17
33	Energy-efficient QoS-based OCDMA networks aided by nonlinear programming methods. AEU - International Journal of Electronics and Communications, 2019, 98, 144-155.	2.9	17
34	Examination of competitive lanthanide sorption onto smectites and its significance in the management of radioactive waste. Journal of Hazardous Materials, 2011, 186, 1930-1941.	12.4	16
35	Low-Complexity Distributed XL-MIMO for Multiuser Detection. , 2020, , .		16
36	A Grant-Based Random Access Protocol in Extra-Large Massive MIMO System. IEEE Communications Letters, 2020, 24, 2478-2482.	4.1	16

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37	Fourier and wavelet spectral analysis of EMG signals in isometric and dynamic maximal effort exercise. , 2010, 2010, 5979-82.		15
38	Fourier and wavelet spectral analysis of EMG signals in maximal constant load dynamic exercise. , 2010, 2010, 4622-5.		15
39	The effects of power control on the optical CDMA random access protocol. Optical Switching and Networking, 2012, 9, 52-60.	2.0	15
40	Anomaly detection using DSNS and Firefly Harmonic Clustering Algorithm. , 2012, , .		15
41	LR-Aided MIMO Detectors under Correlated and Imperfectly Estimated Channels. Wireless Personal Communications, 2014, 77, 173-196.	2.7	15
42	Efficient Near-Optimum Detectors for Large MIMO Systems Under Correlated Channels. Wireless Personal Communications, 2015, 83, 1287-1311.	2.7	15
43	Achieving Fair Random Access Performance in Massive MIMO Crowded Machine-Type Networks. IEEE Wireless Communications Letters, 2020, 9, 503-507.	5.0	15
44	Power Allocation Scheme for OCDMA NG-PON With Proportional–Integral–Derivative Algorithms. Journal of Optical Communications and Networking, 2016, 8, 645.	4.8	14
45	Collision Resolution Protocol via Soft Decision Retransmission Criterion. IEEE Transactions on Vehicular Technology, 2019, 68, 4094-4097.	6.3	14
46	3-D Localization With Multiple LEDs Lamps in OFDM-VLC System. IEEE Access, 2019, 7, 6249-6261.	4.2	14
47	Local search multiuser detection. AEU - International Journal of Electronics and Communications, 2009, 63, 259-270.	2.9	13
48	Uplink Performance of Single-Carrier Receiver in Massive MIMO With Pilot Contamination. IEEE Access, 2017, 5, 8669-8681.	4.2	13
49	Auto-Tuning PID Distributed Power Control for Next-Generation Passive Optical Networks. Journal of Optical Communications and Networking, 2018, 10, D110.	4.8	13
50	Quasi-Distributed Antenna Selection for Spectral Efficiency Maximization in Subarray Switching XL-MIMO Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 6713-6725.	6.3	13
51	Lattice Reduction Aided Detector for MIMO Communication Via Ant Colony Optimisation. Wireless Personal Communications, 2014, 77, 63-85.	2.7	12
52	Comparison of the electromyographic activity of the anterior trunk during the execution of two Pilates exercises â€“ teaser and longspine â€“ for healthy people. Journal of Electromyography and Kinesiology, 2014, 24, 689-697.	1.7	12
53	Bayesian estimators for cooperative spectrum sensing in cognitive radio networks. , 2017, , .		12
54	Monte Carlo method applied to modeling copper transport in river sediments. Stochastic Environmental Research and Risk Assessment, 2012, 26, 1063-1079.	4.0	11

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55	Achieving Maximum Effective Capacity in OFDMA Networks Operating Under Statistical Delay Guarantee. IEEE Access, 2017, 5, 14333-14346.	4.2	11
56	Closed-Form Directivity Expression for Arbitrary Volumetric Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2018, 66, 7443-7448.	5.1	11
57	Adaptive PID Scheme for OCDMA Next Generation PON Based on Heuristic Swarm Optimization. IEEE Systems Journal, 2019, 13, 500-510.	4.6	11
58	Wavelet against random forest for anomaly mitigation in software-defined networking. Applied Soft Computing Journal, 2019, 80, 138-153.	7.2	11
59	S/MIMO MC-CDMA Heuristic Multiuser Detectors Based on Single-Objective Optimization. Wireless Personal Communications, 2010, 53, 529-553.	2.7	10
60	Fourier and wavelet spectral analysis of EMG signals in supramaximal constant load dynamic exercise. , 2010, 2010, 1364-7.		10
61	Energy-Efficient Next-Generation Passive Optical Networks Based on Sleep Mode and Heuristic Optimization. Fiber and Integrated Optics, 2015, 34, 91-111.	2.5	10
62	Power and Subcarrier Allocation Strategies for Energy-Efficient Uplink OFDMA Systems. IEEE Journal on Selected Areas in Communications, 2016, 34, 3142-3156.	14.0	10
63	Energyâ€efficiency maximisation for cooperative and nonâ€cooperative OFDMA cellular networksâ€"a survey. Transactions on Emerging Telecommunications Technologies, 2016, 27, 216-248.	3.9	10
64	Energy efficient adaptive optical CDMA random access protocol based on particle swarm optimization. Photonic Network Communications, 2017, 33, 275-289.	2.7	10
65	Exploring the Non-Overlapping Visibility Regions in XL-MIMO Random Access and Scheduling. IEEE Transactions on Wireless Communications, 2022, 21, 6597-6610.	9.2	10
66	D2D Assisted Q-Learning Random Access for NOMA-Based MTC Networks. IEEE Access, 2022, 10, 30694-30706.	4.2	10
67	Networking Anomaly Detection Using DSNs and Particle Swarm Optimization with Re-Clustering. , 2010, , .		9
68	The Electromyographic Activity of the Multifidus Muscles During the Execution of Two Pilates Exercisesâ€"Swan Dive and Breast Strokeâ€"for Healthy People. Journal of Manipulative and Physiological Therapeutics, 2013, 36, 319-326.	0.9	9
69	Sorption and desorption of silver ions by bentonite clays. Environmental Science and Pollution Research, 2017, 24, 11349-11359.	5.3	9
70	Augmented Lagrangian combined to evolutionary heuristic for energy efficiency in OCDMA networks. Optical Switching and Networking, 2020, 36, 100542.	2.0	9
71	Accelerated Randomized Methods for Receiver Design in Extra-Large Scale MIMO Arrays. IEEE Transactions on Vehicular Technology, 2021, 70, 6788-6799.	6.3	9
72	Simplified Local Search Algorithm for Multiuser Detection in Multipath Rayleigh Channels. , 2007, , .		8

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73	Spectral analysis of electromyographic signal in supramaximal effort in cycle ergometer using Fourier and Wavelet transforms: a comparative study. Revista Andaluza De Medicina Del Deporte, 2012, 5, 48-52.	0.1	8
74	Relay selection methods for maximizing the lifetime of wireless sensor networks. , 2013, , .		8
75	Energy and spectral efficiencies tradeâ€off with filter optimisation in multiple access interferenceâ€aware networks. Transactions on Emerging Telecommunications Technologies, 2015, 26, 670-685.	3.9	8
76	Leachability of major and minor elements from soils and sediments of an abandoned coal mining area in Southern Brazil. Environmental Monitoring and Assessment, 2015, 187, 83.	2.7	8
77	Mitigation of Environmental Temperature Variation Effects in OCDMA Networks Using PSO Power Control. Journal of Optical Communications and Networking, 2015, 7, 707.	4.8	8
78	Ordered MMSEâ€"SIC via sorted QR decomposition in ill conditioned large-scale MIMO channels. Telecommunication Systems, 2016, 63, 335-346.	2.5	8
79	Sequential likelihood ascent search detector for massive MIMO systems. AEU - International Journal of Electronics and Communications, 2018, 96, 30-39.	2.9	8
80	Multiple restarts mixed Gibbs sampling detector for largeâ€scale antenna systems. IET Signal Processing, 2019, 13, 273-285.	1.5	8
81	Multiple Access Network Optimization Aspects via Swarm Search Algorithms. , 2011, , .		7
82	AnÃ¡lise comparativa da atividade elÃ©trica do mÃºsculo multÃfido durante exercÃcios do Pilates, sÃ©rie de Williams e Spine Stabilization. Fisioterapia Em Movimento, 2013, 26, 87-94.	0.1	7
83	Exponential spatial correlation with largeâ€scale fading variations in massive MIMO channel estimation. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3563.	3.9	7
84	Closed-Form Bit Error Probabilities for FBMC Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 1237-1244.	6.3	7
85	Stochastic channel models for massive and extreme large multipleâ€input multipleâ€output systems. Transactions on Emerging Telecommunications Technologies, 2020, 31, e4099.	3.9	7
86	Modeling the kinetics of potentially toxic elements desorption in sediment affected by a dam breakdown disaster in Doce River - Brazil. Chemosphere, 2021, 283, 131157.	8.2	7
87	Power Allocation in Multirate DS/CDMA Systems Based on Verhulst Equilibrium. , 2010, , .		6
88	Energy Efficiency Analysis in Adaptive FEC-Based Lightpath Elastic Optical Networks. Journal of Circuits, Systems and Computers, 2015, 24, 1550133.	1.5	6
89	Delay and estimation uncertainty in distributed power control algorithm for optical CDMA networks. Optical Switching and Networking, 2016, 21, 67-78.	2.0	6
90	Energy efficiency in optical CDMA networks with forward error correction. Photonic Network Communications, 2016, 31, 1-10.	2.7	6

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91	Adaptive Power Control Algorithm for Dynamical Transmitted Power Optimization in Mixed-Line-Rate Optical Networks. IEEE Communications Letters, 2018, 22, 2032-2035.	4.1	6
92	Randomized Kaczmarz algorithm for massive MIMO systems with channel estimation and spatial correlation. International Journal of Communication Systems, 2019, 32, e4158.	2.5	6
93	Antenna selection in nonorthogonal multiple access multiple‐input multiple‐output systems aided by machine learning. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4283.	3.9	6
94	Energy and spectral efficiencies trade-off in MIMO-NOMA system under user-rate fairness and variable user per cluster. Physical Communication, 2021, 47, 101348.	2.1	6
95	Joint uplink and downlink optimization of pilot assignment for massive MIMO with power control. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3250.	3.9	6
96	Nonorthogonal multiple access systems optimization to ensure maximum fairness to users. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3875.	3.9	6
97	Improvement of MISO Single-User Time Reversal Ultra-Wideband Using a DFE Channel Equalizer. , 2008, , .		5
98	Particle swarm optimization assisted multiuser detector for M-QAM DS/CDMA systems. , 2008, , .		5
99	MIMO transmit scheme based on morphological perceptron with competitive learning. Neural Networks, 2016, 80, 9-18.	5.9	5
100	Stability analysis in Gram‐Schmidt QR decomposition. IET Signal Processing, 2016, 10, 912-917.	1.5	5
101	Efficient ZF-WF strategy for sum-rate maximization of MU-MISO cognitive radio networks. AEU - International Journal of Electronics and Communications, 2018, 84, 366-374.	2.9	5
102	Efficient multitap equalization for FBMC‐OQAM systems. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3775.	3.9	5
103	A new approach to evaluate toxic metal transport in a catchment. Environmental Monitoring and Assessment, 2020, 192, 234.	2.7	5
104	Predistortion and pre-equalization for nonlinearities and low-pass effect mitigation in OFDM-VLC systems. Applied Optics, 2019, 58, 5328.	1.8	5
105	Throughput and latency in the distributed Q-learning random access mMTC networks. Computer Networks, 2022, 206, 108787.	5.1	5
106	Multirate Multiuser DS/CDMA with Genetic Algorithm Detection in Multipath Channels. , 2006, , .		4
107	Particle swarm optimization in WDM/OCDM networks with physical impairments. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2013, 12, 336-352.	0.7	4
108	PAPR and saturation effects of power amplifiers in SM OFDM and V-BLAST OFDM systems. , 2014, , .		4

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109	Performance and complexity analysis of sub-optimum MIMO detectors under correlated channel. , 2014, , .		4
110	Game Theoretic Energy Efficiency Design in MC-CDMA Cooperative Networks. IEEE Sensors Journal, 2014, 14, 3065-3075.	4.7	4
111	Game Theory Based Resource Allocation in Multi-Cell Massive MIMO OFDMA Networks. , 2017, , .		4
112	Improved weighted average consensus in distributed cooperative spectrum sensing networks. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3259.	3.9	4
113	Power Allocation in PON-OCDMA with Improved Chaos Particle Swarm Optimization. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2018, 17, 268-283.	0.7	4
114	Efficient detection in uniform linear and planar arrays MIMO systems under spatial correlated channels. International Journal of Communication Systems, 2018, 31, e3697.	2.5	4
115	Total Energy Efficiency of TR-MRC and FD-MRC Receivers for Massive MIMO Uplink. IEEE Systems Journal, 2019, 13, 2285-2296.	4.6	4
116	XL-MIMO energy-efficient antenna selection under non-stationary channels. Physical Communication, 2020, 43, 101189.	2.1	4
117	Heuristic Chaotic Hurricane-Aided Efficient Power Assignment for Elastic Optical Network. IEEE Access, 2020, 8, 83359-83374.	4.2	4
118	Spectral and energy efficiency tradeoff in optical code division multiple access networks. Transactions on Emerging Telecommunications Technologies, 2021, 32, .	3.9	4
119	On the Sum-Rate of Contention Resolution in Massive MIMO With NOMA. IEEE Access, 2021, 9, 24965-24974.	4.2	4
120	Non-linear biobjective EE-SE optimization for NOMA-MIMO systems under user-rate fairness and variable number of users per cluster. AEU - International Journal of Electronics and Communications, 2021, 138, 153870.	2.9	4
121	Distributed average consensus optimization for cooperative spectrum sensing in cognitive radio ad hoc networks. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3965.	3.9	4
122	Clustered Double-Scattering Channel Modeling for XL-MIMO With Uniform Arrays. IEEE Access, 2022, 10, 20173-20186.	4.2	4
123	User-Centric Perspective in Random Access Cell-Free Aided by Spatial Separability. IEEE Internet of Things Journal, 2022, 9, 16562-16576.	8.7	4
124	Successive parallel interference canceller for asynchronous multirate DS-CDMA systems. , 0, , .		3
125	Genetic Algorithm Applied to Multipath Multiuser Channel Estimation in DS/CDMA Systems. , 2006, , .		3
126	Weighting particle swarm, simulation annealing and local search optimization for S/MIMO MC-CDMA systems. , 2008, , .		3

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127	Performance analysis of a single-user MISO ultra-wideband time reversal system with DFE. Telecommunication Systems, 2011, 46, 333-342.	2.5	3
128	Analysis and Modeling of Brazilian Indoor PLC Channels Controlled Environment - Testing and Validation. IEEE Latin America Transactions, 2015, 13, 2473-2481.	1.6	3
129	Message passing detection for large‐scale MIMO systems: damping factor analysis. IET Signal Processing, 2017, 11, 923-935.	1.5	3
130	Efficient Lattice Reduction Aided Detectors Under Realistic MIMO Channels. Wireless Personal Communications, 2017, 95, 947-978.	2.7	3
131	Efficient detectors for MIMO-OFDM systems under spatial correlation antenna arrays. ETRI Journal, 2018, 40, 570-581.	2.0	3
132	Power allocation scheme for mitigation of fiber temperature fluctuations in OCDMA networks based on firefly algorithm. Optical Switching and Networking, 2018, 30, 1-9.	2.0	3
133	Low-complexity Kaczmarz precoding in DL massive MIMO with partial CSI and correlation. Physical Communication, 2019, 37, 100902.	2.1	3
134	Low-Complexity Massive MIMO Detectors Under Spatial Correlation and Channel Error Estimates. Wireless Personal Communications, 2019, 106, 2335-2358.	2.7	3
135	Energy-efficient flexible and fixed antenna selection methods for XL-MIMO systems. AEU - International Journal of Electronics and Communications, 2021, 130, 153568.	2.9	3
136	Energy and spectral efficiency trade-off in OCDMA-PON assisted by non-linear programming methods. Computer Networks, 2021, 189, 107920.	5.1	3
137	Hopfield learning‐based and non‐linear programming methods for resource allocation in OCDMA networks. IET Communications, 2020, 14, 1925-1936.	2.2	3
138	Análise espectral do sinal EMG de exercício incremental em ciclistas e não ciclistas usando as transformadas de Fourier e Wavelet. Revista Brasileira De Cineantropometria E Desempenho Humano, 2012, 14, .	0.5	3
139	Increasing energy efficiency in OCDMA network via distributed power control. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2012, 11, 39-55.	0.7	3
140	Deep Learning-Based Activity Detection for Grant-Free Random Access. IEEE Systems Journal, 2023, 17, 940-951.	4.6	3
141	DS/CDMA Multiuser Detection Based on Polynomial Expansion Subspace Signal. IEEE Latin America Transactions, 2008, 6, 371-381.	1.6	2
142	Weighting Particle Swarm Optimization SIMO MC-CDMA Multiuser Detectors. , 2008, , .		2
143	GA, SA, and TS near-optimum multiuser detectors for s/MIMO MC-CDMA systems. , 2008, , .		2
144	Constrained least square pre-distortion scheme for multiuser ultra-wideband. IET Communications, 2012, 6, 1334.	2.2	2

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145	Sequence design for MPG QS‐CDMA systems based on heuristic combinatorial optimization. Wireless Communications and Mobile Computing, 2012, 12, 236-247.	1.2	2
146	A comparative analysis of three metaheuristic methods applied to fuzzy cognitive maps learning. Pesquisa Operacional, 2013, 33, 443-465.	0.4	2
147	Ant Colony Input Parameters Optimization for Multiuser Detection in DS/CDMA Systems. IEEE Latin America Transactions, 2014, 12, 1355-1364.	1.6	2
148	Cooperative multi‐cellular large MIMO over asynchronous channel training. International Journal of Communication Systems, 2016, 29, 2330-2348.	2.5	2
149	Linear detection analysis in MIMO-OFDM with spatial correlation. , 2016, , .		2
150	Time-delay and estimation uncertainty impact on the heuristic-based power control of optical networks. Optical and Quantum Electronics, 2016, 48, 1.	3.3	2
151	Theoretical error for asynchronous multi‐user large‐scale MIMO channel estimation. IET Communications, 2017, 11, 17-24.	2.2	2
152	Massive MIMO pilot assignment optimization based on total capacity. Telecommunication Systems, 2018, 69, 489-503.	2.5	2
153	Hybrid Hughes‐Hartogs power allocation algorithms for OFDMA systems. IET Signal Processing, 2018, 12, 1185-1192.	1.5	2
154	Near‐perfect reconstruction short length pulses for FBMC systems: re‐optimising OFDP design via semi‐definite programming. IET Signal Processing, 2019, 13, 701-707.	1.5	2
155	Adaptive chaotic hurricane-aided efficient power assignment for elastic optical networks. Optical Switching and Networking, 2020, 39, 100595.	2.0	2
156	Lotka-Volterra distributed power control model for OCDMA systems. AEU - International Journal of Electronics and Communications, 2021, 135, 153722.	2.9	2
157	Halton-Chaos and ALPSO power allocation methods for passive optical CDMA networks. AEU - International Journal of Electronics and Communications, 2021, 139, 153911.	2.9	2
158	Wavelength widths of optical filters for optimum SINR in WDM-VLC systems. Applied Optics, 2020, 59, 5615.	1.8	2
159	Spectrum sensing optimization in uncalibrated massive antennas systems. Physical Communication, 2021, 49, 101484.	2.1	2
160	Massive MIMO and NOMA bits-per-antenna efficiency under power allocation policies. Physical Communication, 2022, 51, 101588.	2.1	2
161	Machine learning-aided pilot and power allocation in multi-cellular massive MIMO networks. Physical Communication, 2022, 52, 101646.	2.1	2
162	CNN-aided multiple PU spectrum sensing in uncalibrated massive antennas SU system. Physical Communication, 2022, 53, 101715.	2.1	2

#	Article	IF	Citations
163	Multistage parallel interference canceller for asynchronous multirate DS-CDMA systems in AWGN and flat Rayleigh channels. , 0, , .		1
164	Multistage hybrid interference canceller for asynchronous multirate DS-CDMA systems in AWGN and flat Rayleigh channels. , 0, , .		1
165	Set of Sequences for QS-CDMA Systems with Multi-User Detection and Multipath-Fading Channels. Wireless Personal Communications, 2005, 33, 35-51.	2.7	1
166	Genetic algorithm multiuser detection in fading channel with errors in the estimates of parameters. , 0, , .		1
167	Reduced tree-search, heuristic and linear decoupler low-complexity MIMO detectors. , 2008, , .		1
168	Simplified local search multiuser detection for QPSK S/MIMO MC-CDMA systems. , 2008, , .		1
169	Channel reliability in turbo-coded DS/CDMA systems under Rayleigh fading channels. , 2008, , .		1
170	Performance of MISO Time Reversal Ultra-Wideband over an 802.15.3a Channel Model. , 2008, , .		1
171	Reduced Cluster Search ML Decoding for QO-STBC Systems. , 2009, , .		1
172	Channel Reliability for Turbo DS/CDMA Systems under Rayleigh Fading and Multiple Access Interference. IEEE Latin America Transactions, 2010, 8, 1-8.	1.6	1
173	Implementação eficiente de filtros adaptativos utilizando a plataforma TMS320C6713. Semina: Ciências Exatas E Tecnológicas, 2011, 32, 115-131.	0.1	1
174	Análise espectral do sinal EMG dos músculos superficiais do quadríceps durante exercício submáximo de carga constante no cicloergômetro. Revista Da Educação Física, 2011, 22, .	0.0	1
175	Pre-distortion schemes for MISO single-user ultra-wideband systems. , 2011, , .		1
176	Jointly multi‐user detection and channel estimation with genetic algorithm. Wireless Communications and Mobile Computing, 2011, 11, 767-782.	1.2	1
177	SDR Lattice-Reduction-Aided Detector. IEEE Latin America Transactions, 2013, 11, 1007-1014.	1.6	1
178	SIR optimization in wavelength-hopping time spreading optical code routed networks. Optik, 2013, 124, 3208-3214.	2.9	1
179	Lattice reduction aided detector for dense MIMO via ant colony optimization. , 2013, , .		1
180	Hybrid local search polynomial-expanded linear multiuser detector for DS/CDMA systems. International Journal of Wireless and Mobile Computing, 2013, 6, 18.	0.2	1

#	Article	IF	Citations
181	Firefly Algorithm in Telecommunications. , 2015, , 43-72.		1
182	Transport of radioselenium oxyanions by diffusion in unsaturated soils. Radiochimica Acta, 2015, 103, 501-511.	1.2	1
183	Bitâ€errorâ€rate minimisation in multiuser transmission schemes for multipleâ€input â€" multipleâ€output communication with increasing number of base station antennas. IET Communications, 2015, 9, 1960-1967.	2.2	1
184	MIMO Precoding for Correlated Fading Channels. Journal of Circuits, Systems and Computers, 2016, 25, 1650041.	1.5	1
185	DE/PSOâ€aided hybrid linear detectors for MIMOâ€OFDM systems under correlated arrays. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3495.	3.9	1
186	Kaczmarz Precoding and Detection for Massive MIMO Systems. , 2019, , .		1
187	Adjustable threshold LAS massive MIMO detection under imperfect CSI and spatial correlation. Physical Communication, 2020, 38, 100971.	2.1	1
188	Modeling and mitigation of spectral crosstalk in OFDM WDM-VLC system. Optics Communications, 2021, 478, 126361.	2.1	1
189	Resource efficiency and pilot decontamination in XLâ€MIMO doubleâ€scattering correlated channels. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4365.	3.9	1
190	Mitigating the noisy solution impact of mixed Gibbs sampling detector in high-order modulation large-scale MIMO systems. Eurasip Journal on Advances in Signal Processing, 2021, 2021, .	1.7	1
191	Water Resource Management Aided by Game Theory. Springer Water, 2021, , 217-262.	0.3	1
192	Low-margin efficient power and spectrum assignment in elastic optical networks. Optical Switching and Networking, 2022, 43, 100649.	2.0	1
193	Multipowerâ€level <i>Q</i> â€learning algorithm for random access in nonorthogonal multiple access massive machineâ€type communications systems. Transactions on Emerging Telecommunications Technologies, 0, , .	3.9	1
194	Separating selenium species by diffusion in Brazilian bentonite: a mathematical modeling approach. Environmental Science and Pollution Research, 0, , .	5.3	1
195	Novel serial group interference canceller scheme for asynchronous multirate DS-CDMA systems. , 0, , .		0
196	Ultra-wideband Performance in a Dense Multipath Environment with Time and Spatial Diversity. , 2007, , .		0
197	Analysis of semidefinite relaxation detector in MIMO channel. , 2011, , .		0
198	Power-Rate Allocation in DS/CDMA Systems Based on Discretized Verhulst Equilibrium. IEEE Latin America Transactions, 2011, 9, 681-689.	1.6	0

#	Article	IF	Citations
199	Comparison of multiple‐input single‐output single‐user ultra‐wideband systems with pre‐distortion. European Transactions on Telecommunications, 2012, 23, 240-253.	1.2	0
200	Bayesian estimators by particle filtering. , 2011, , .		0
201	Hybrid guided search detector for MIMO systems. , 2011, , .		0
202	Local Search Detection in Multiple Access DS/CDMA Networks. IEEE Latin America Transactions, 2012, 10, 1482-1488.	1.6	0
203	MMSE Pre-distortion Scheme for Multiuser UWB. Wireless Personal Communications, 2013, 70, 1307-1319.	2.7	0
204	Power consumption optimization in multi-granular optical networks with particle swarm intelligence. , 2013, , .		0
205	Hybrid 1-opt Local Search Polynomial-Expanded Linear Multiuser Detectors. IEEE Latin America Transactions, 2013, 11, 1169-1175.	1.6	0
206	Energy efficiency design in MC-CDMA cooperative networks. , 2013, , .		0
207	Power-rate control in multirate multiple access networks via heuristic ant colony optimization. , 2014, , .		0
208	The Impact of Geographic Distribution in Passive Optical Network with Optical CDMA. IEEE Latin America Transactions, 2015, 13, 2152-2158.	1.6	0
209	Subcarrier and Power Allocation Algorithm for Spectral Efficiency Maximization in Superposition Coding OFDMA Systems. Journal of Circuits, Systems and Computers, 2015, 24, 1550061.	1.5	0
210	Guided Search MIMO Detectors aided by Lattice Reduction under Correlated Channels. IEEE Latin America Transactions, 2015, 13, 599-608.	1.6	0
211	Estimation Uncertainties in the Optical Signal-to-Noise Ratio Network Optimization. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2016, 15, 1-17.	0.7	0
212	Uma Abordagem Heurística para o Algoritmo PTS na Redução da PAPR em Sistemas OFDM. Semina: Ciências Exatas E Tecnológicas, 2016, 37, 33.	0.1	0
213	An Evaluation of Successive Pilot Decontamination in Massive MIMO. Semina: Ciências Exatas E Tecnológicas, 2018, 39, 107.	0.1	0
214	BER minimisation via optimal power allocation and eigenbeamforming in MIMO systems. Telecommunication Systems, 2019, 70, 277-293.	2.5	0
215	Improved MB Cognitive Radio Spectrum Sensing Using Wavelet Spectrum Filtering. Journal of Circuits, Systems and Computers, 2019, 28, 1950136.	1.5	0
216	Modelo populacional de Verhulst aplicado ao controle de potência distribuído DS/CDMA. Semina: Ciências Exatas E Tecnológicas, 2005, 26, 83.	0.1	0

#	Article	IF	Citations
217	Sistemas DS/CDMA Multitaxa com Detector HeurÃstico-GenÃ©tico em Canais Multipercurso. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2005, 26, 155.	0.1	0
218	Algoritmos swarm, genÃ©tico e programaÃ§Ã£o ao evolucionÃ¡ria aplicados Ã detecÃ§Ã£o ao multiusuÃ¡rio. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2005, 26, 195.	0.1	0
219	InteligÃªncia Swarm e EquilÃbrio de Verhulst Aplicados Ã AlocaÃ§Ã£o de PotÃªncia em Redes Ã"pticas CDMA Particionadas. Revista De Informatica Teorica E Aplicada, 2011, 18, 266.	0.2	0
220	Estimador de Coeficientes de Canal DS/CDMA Baseado em Filtragem de PartÃculas. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2013, 34, 107-116.	0.1	0
221	SeleÃ§Ã£o de Relays em Esquemas Cooperativos com Links Bidirecionais - Uma RevisÃ£o. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2015, 36, 51.	0.1	0
222	SincronizaÃ§Ã£o por RealimentaÃ§Ã£o de Erro no Circuito EletrÃ´nico da PartÃcula em Mesa VibratÃ³ria. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2016, 37, 23.	0.1	0
223	SeleÃ§Ã£o de sequÃªncias de espalhamento e Desempenho de Sistemas DS/CDMA. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2016, 37, 55.	0.1	0
224	Linear detectors and precoding methods for massive MIMO. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2021, 42, 209.	0.1	0
225	Max-Min fairness-based resource allocation in massive MIMO systems. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2022, 43, 45.	0.1	0