

Kumbesan Sandrasegaran

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7789126/publications.pdf>

Version: 2024-02-01

140
papers

1,633
citations

687363

13
h-index

501196

28
g-index

144
all docs

144
docs citations

144
times ranked

1357
citing authors

#	ARTICLE	IF	CITATIONS
1	An Improved Indoor Positioning Accuracy Using Filtered RSSI and Beacon Weight. IEEE Sensors Journal, 2021, 21, 18205-18213.	4.7	22
2	A survey on data aggregation techniques in IoT sensor networks. Wireless Networks, 2020, 26, 1243-1263.	3.0	145
3	Fractional Frequency Reuse in Multi-tier Networks: Performance Analysis and Optimization. International Journal of Wireless Information Networks, 2020, 27, 164-183.	2.7	3
4	Smartphone-Based Indoor Positioning Using BLE iBeacon and Reliable Lightweight Fingerprint Map. IEEE Sensors Journal, 2020, 20, 10283-10294.	4.7	70
5	Development of a Real-Time, Simple and High-Accuracy Fall Detection System for Elderly Using 3-DOF Accelerometers. Arabian Journal for Science and Engineering, 2019, 44, 3329-3342.	3.0	24
6	A Model Based Poisson Point Process for Downlink Cellular Networks Using Joint Scheduling. Wireless Personal Communications, 2019, 107, 1717-1725.	2.7	0
7	A fast tag identification anti-collision algorithm for RFID systems. International Journal of Communication Systems, 2019, 32, e4108.	2.5	3
8	Practical fall detection based on IoT technologies: A survey. Internet of Things (Netherlands), 2019, 8, 100124.	7.7	33
9	Road Vehicle Detection and Classification Using Magnetic Field Measurement. IEEE Access, 2019, 7, 52622-52633.	4.2	23
10	Uplink Performance of Ultra Dense Networks with Power Control. , 2019, , .		1
11	Improve Indoor Positioning Accuracy Using Filtered RSSI and Beacon Weight Approach in iBeacon Network. , 2019, , .		4
12	Transmission Power Adjustment Scheme for Mobile Beacon-Assisted Sensor Localization. IEEE Transactions on Industrial Informatics, 2019, 15, 2859-2869.	11.3	27
13	Crowdsourcing and Sensing for Indoor Localization in IoT: A Review. IEEE Sensors Journal, 2019, 19, 2408-2434.	4.7	89
14	Develop A Virtual System Using Traffic Flow Model For Intelligent Transportation in Smart City. , 2018, , .		2
15	Develop A Web-Based Visualisation Platform For Wireless Sensor Network Generation. , 2018, , .		0
16	Modelling and Simulation of Handover in Light Fidelity (Li-Fi) Network. , 2018, , .		3
17	Develop An Indoor Space Ontology For Finding Lost Properties for Location-Based Service of Smart City. , 2018, , .		6
18	Highly Accurate Step Counting at Various Walking States Using Low-Cost Inertial Measurement Unit Support Indoor Positioning System. Sensors, 2018, 18, 3186.	3.8	24

#	ARTICLE	IF	CITATIONS
19	Novel iBeacon Placement for Indoor Positioning in IoT. IEEE Sensors Journal, 2018, 18, 10240-10247.	4.7	52
20	Indoor localization for IoT applications using fingerprinting. , 2018, , .		10
21	A location-based smart shopping system with IoT technology. , 2018, , .		33
22	A Collision Resolution Algorithm for RFID Using Modified Dynamic Tree With Bayesian Tag Estimation. IEEE Communications Letters, 2018, 22, 2238-2241.	4.1	11
23	Performance Analysis of Frequency Reuse for PPP Networks in Composite Rayleigh-Lognormal Fading Channel. Wireless Personal Communications, 2017, 96, 989-1006.	2.7	6
24	Multi-Level Indoor Navigation Ontology for High Assurance Location-Based Services. , 2017, , .		13
25	Performance analysis of fractional frequency reuse in uplink random cellular networks. Physical Communication, 2017, 25, 469-482.	2.1	5
26	Comparison of Performance of Packet Scheduling Algorithms in LTE-A HetNets. Wireless Personal Communications, 2017, 97, 1947-1965.	2.7	0
27	A closed-form of cooperative detection probability using EGC-based soft decision under Suzuki fading. , 2017, , .		2
28	Optimal strict frequency reuse in cellular networks-based stochastic geometry model. , 2017, , .		1
29	Strict frequency reuse algorithm in random cellular networks. , 2016, , .		2
30	Benchmarking of real-time LTE network in dynamic environment. , 2016, , .		4
31	Performance comparison of packet scheduling algorithms in LTE-A HetNets. , 2016, , .		6
32	Performance of soft frequency reuse in random cellular networks in Rayleigh-Lognormal fading channels. , 2016, , .		5
33	Modelling software corrective maintenance productivity using an analytical economic model and simulation. International Journal of Computer Applications in Technology, 2016, 54, 77.	0.5	9
34	Analytical Coverage Probability of a Typical User In Heterogeneous Cellular Networks. Journal of Networks, 2016, 11, .	0.4	2
35	Performance of well-known frequency reuse algorithms in LTE downlink 3GPP LTE systems. , 2015, , .		9
36	Comparative Analysis of Downlink Packet Scheduling Algorithms in 3GPP LTE Networks. International Journal of Wireless and Mobile Networks, 2015, 7, 1-21.	0.2	7

#	ARTICLE	IF	CITATIONS
37	Interoperability and Quality Assurance for Multi-Vendor LTE Network. International Journal of Wireless and Mobile Networks, 2015, 7, 65-76.	0.2	0
38	Packet Scheduling Study For Heterogeneous Traffic In Downlink 3gpplte System. International Journal of Wireless and Mobile Networks, 2015, 7, 91-106.	0.2	2
39	A dynamic almost blank subframe scheme for video streaming traffic model in heterogeneous networks. , 2015, , .		3
40	A closed-form expression for coverage probability of random cellular network in composite Rayleigh-Lognormal fading channels. , 2015, , .		9
41	A multimedia transmission control algorithm based on cross-layer design in UMTS networks. Wireless Networks, 2015, 21, 949-961.	3.0	1
42	A survey of Direction of Arrival estimation techniques and implementation of channel estimation based on SCME. , 2015, , .		11
43	Interference Management in Lte Downlink Networks. International Journal of Wireless and Mobile Networks, 2015, 7, 91-106.	0.2	12
44	Survey of LTE Downlink Schedulers Algorithms in Open Access Simulation Tools NS-3 and LTE-SIM. International Journal of Wireless and Mobile Networks, 2015, 7, 01-16.	0.2	2
45	Performance Analysis of Adaptive Noise Canceller Employing NLMS Algorithm. International Journal of Wireless and Mobile Networks, 2015, 7, 45-58.	0.2	9
46	SINR, RSRP, RSI and RSRQ Measurements in Long Term Evolution Networks. International Journal of Wireless and Mobile Networks, 2015, 7, 113-123.	0.2	87
47	Benchmarking of Cell Throughput Using Proportional Fair Scheduler in a Single Cell Environment. International Journal of Wireless and Mobile Networks, 2015, 7, 67-79.	0.2	0
48	A Simulation Tool for Downlink Long Term Evolution-advanced. Research Journal of Applied Sciences, Engineering and Technology, 2014, 8, 2032-2041.	0.1	4
49	System level simulation for femtocellular networks. , 2014, , .		3
50	Dynamic path of mobile beacon in localisation of wireless sensor network. International Journal of Sensor Networks, 2014, 15, 130.	0.4	2
51	A dynamic cell range expansion scheme based on fuzzy logic system in LTE-advanced heterogeneous networks. , 2014, , .		2
52	Performance analysis of PF, M-LWDF and EXP/PF packet scheduling algorithms in 3GPP LTE downlink. , 2014, , .		22
53	Analysis of the influence to productivity of software corrective maintenance using an economic model. , 2014, , .		0
54	A fuzzy Q-learning approach for enhanced intercell interference coordination in LTE-Advanced heterogeneous networks. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
55	An enhanced intercell interference coordination scheme using fuzzy logic controller in LTE-advanced heterogeneous networks. , 2014, , .		7
56	A Novel Approach for Mobility Management in LTE Femtocells. International Journal of Wireless and Mobile Networks, 2014, 6, 45-58.	0.2	3
57	Performance Analysis of FLS, EXP, LOG and M-LWDF Packet Scheduling Algorithms in Downlink 3GPP LTE System. International Journal of Wireless and Mobile Networks, 2014, 6, 77-91.	0.2	4
58	Macro with Pico Cells (HETNETS) System Behaviour using Well-Known Scheduling Algorithms. International Journal of Wireless and Mobile Networks, 2014, 6, 109-122.	0.2	1
59	Group Based Algorithm to Manage Access Technique in the Vehicular Networking to Reduce Preamble ID Collision and Improve RACH allocation in ITS. International Journal of Wireless and Mobile Networks, 2014, 6, 1-15.	0.2	0
60	Rach Congestion in Vehicular Networking. International Journal of Wireless and Mobile Networks, 2014, 6, 153-164.	0.2	0
61	Comparative Study on Priority Based QOS Aware Mac Protocols for WSN. International Journal of Wireless and Mobile Networks, 2014, 6, 175-181.	0.2	3
62	System Level Simulation for Two Tier Macro-Femto Cellular Networks. International Journal of Wireless and Mobile Networks, 2014, 6, 01-14.	0.2	2
63	A distributed non-uniform pricing approach for power optimization in spectrum-sharing femtocell network. , 2013, , .		4
64	Performance evaluation of cell selection techniques for picocells in LTE-advanced networks. , 2013, , .		6
65	A coloring-based resource allocation for OFDMA femtocell networks. , 2013, , .		25
66	Performance analysis of two component carrier selection algorithms in the downlink LTE-A. , 2013, , .		6
67	System level simulation to evaluate the interference in macrocell-pico cell downlink systems. , 2013, , .		2
68	Robust scheduling algorithm for guaranteed bit rate services. International Journal of Mobile Communications, 2013, 11, 71.	0.3	7
69	Limited Comp Handover Algorithm For LTE-Advanced. Journal of Engineering (United States), 2013, 2013, 1-9.	1.0	7
70	On the Performance of PF, MLWDF and EXP/PF algorithms in LTE. International Journal of Computers & Technology, 2013, 8, 698-706.	0.2	8
71	Pedestrian Monitoring System using Wi-Fi Technology And RSSI Based Localization. International Journal of Wireless and Mobile Networks, 2013, 5, 17-34.	0.2	26
72	An Intercell Interference Coordination Scheme in LTE Downlink Networks based on User Priority and Fuzzy Logic System. International Journal of Wireless and Mobile Networks, 2013, 5, 49-64.	0.2	9

#	ARTICLE	IF	CITATIONS
73	Survey on the Research Challenges of Radio Resource Management in LTE-A and the Current Proposed Solutions for these Challenges. International Journal of Computers & Technology, 2013, 7, 626-637.	0.2	0
74	Optimised proportional fair algorithm for long-term evolution-advanced system with multiple component carriers. IET Communications, 2012, 6, 1579.	2.2	3
75	Link adaptation with multiple feedback thresholds. , 2012, , .		0
76	A study of packet scheduling with mobile cellular channel impairments. , 2012, , .		4
77	Hybrid scheduling technique for multiuser systems. , 2012, , .		1
78	Multiple Criteria Based Algorithms. Springer Briefs in Electrical and Computer Engineering, 2012, , 23-33.	0.5	0
79	Handover algorithm with joint processing in LTE-advanced. , 2012, , .		6
80	On the performance of capacity integrated CoMP handover algorithm in LTE-Advanced. , 2012, , .		5
81	Survey of intercell interference mitigation techniques in LTE downlink networks. , 2012, , .		23
82	Adaptive feedback algorithm for OFDMA systems. , 2011, , .		0
83	Optimization of handover algorithms in 3GPP long term evolution system. , 2011, , .		14
84	Modeling and simulation of packet scheduling in the downlink LTE-advanced. , 2011, , .		3
85	Quality-driven scheduling for Long-Term Evolution system. International Journal of Mobile Communications, 2011, 9, 441.	0.3	1
86	Opportunistic feedback for proportional fair scheduling. , 2011, , .		2
87	HARQ aware scheduling algorithm for the downlink LTE system. , 2011, , .		8
88	Benchmarking Embedded Devices for Broadband Performance Testing. , 2011, , .		3
89	Optimized Performance Evaluation of LTE Hard Handover Algorithm with Average RSRP Constraint. International Journal of Wireless and Mobile Networks, 2011, 3, 1-16.	0.2	31
90	Resource allocation technique for video streaming applications in the LTE system. , 2010, , .		16

#	ARTICLE	IF	CITATIONS
91	Trust-Assisted Handover Approach in Hybrid Wireless Networks. <i>Wireless Personal Communications</i> , 2010, 52, 477-499.	2.7	2
92	Delay-Prioritized Scheduling (DPS) for Real Time Traffic in 3GPP LTE System. , 2010, , .		61
93	Requirement of Handover Modeling in the Downlink 3GPP Long Term Evolution System. , 2010, , .		12
94	A Markov Model for Performance Evaluation of CRRM Algorithms in a Co-Located GERAN/UTRAN/WLAN Scenario. , 2010, , .		2
95	Joint delay-aware opportunistic scheduling algorithm with reduced feedback to exploit multiuser diversity. , 2010, , .		1
96	Performance Evaluation on Common Radio Resource Management Algorithms. , 2010, , .		11
97	Impact of CQI feedback rate/delay on scheduling video streaming services in LTE downlink. , 2010, , .		22
98	Analysis of Hybrid ARQ in 3GPP LTE systems. , 2010, , .		3
99	Radio propagation modelling in the downlink LTE. , 2010, , .		1
100	Opportunistic downlink sum-rate with multiple feedback thresholds. , 2010, , .		0
101	Speed estimation using transmit power control commands for UMTS. , 2010, , .		0
102	Analysis of opportunistic contention-based feedback protocol for downlink OFDMA. , 2010, , .		0
103	Performance Analysis of Two Packet Scheduling Algorithms in Downlink 3GPP LTE System. , 2010, , .		5
104	A User Level Markov model for service based CRRM algorithm. , 2010, , .		0
105	Impact of soft handover and pilot pollution on video telephony in a commercial network. , 2010, , .		2
106	A proxy based authentication localisation scheme for handover between non trust-associated domains. <i>Mobile Computing and Communications Review</i> , 2010, 13, 47-58.	1.7	5
107	Tradeoff between overall throughput and throughput fairness in network controlled cell breathing algorithm. , 2009, , .		1
108	A system level simulation model for common radio resource management. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
109	Proportional fair scheduling with reduced feedback. Electronics Letters, 2009, 45, 472.	1.0	2
110	Cross-Layer Radio Resource Allocation for Multicarrier Air Interfaces in Multicell Multiuser Environments. IEEE Transactions on Vehicular Technology, 2009, 58, 1864-1875.	6.3	6
111	Performance analysis of EXP/PF and M-LWDF in downlink 3GPP LTE system. , 2009, , .		105
112	Modeling and simulation of packet scheduling in the downlink long term evolution system. , 2009, , .		14
113	Performance of well known packet scheduling algorithms in the downlink 3GPP LTE system. , 2009, , .		119
114	Advances in Multimedia Information Processing - PCM 2009. Lecture Notes in Computer Science, 2009, , .	1.3	3
115	Performance study of video streaming in commercial UMTS network. , 2008, , .		1
116	Network controlled handover scheme for heterogeneous network. Electronics Letters, 2008, 44, 604.	1.0	2
117	Partial time delay compensation technique for UMTS adaptive power control. Electronics Letters, 2008, 44, 487.	1.0	5
118	System-Level Modeling and Simulation of Uplink WCDMA. , 2008, , .		3
119	User speed estimation techniques for UMTS. Electronics Letters, 2007, 43, 1036.	1.0	3
120	Trust-Assisted Handover Decision Algorithm in Hybrid Wireless Networks. , 2007, , .		3
121	Performance of adaptive power control in presence of loop delays. , 2007, , .		0
122	A Survey on Common Radio Resource Management. , 2007, , .		25
123	Performance Comparison of Adaptive Power Control in UMTS. , 2007, , .		6
124	Performance study of new adaptive power control algorithm. , 2007, , .		15
125	Forecasting Asia Pacific Mobile Market Trends Using Regression Analysis. , 2007, , .		2
126	A Multi-Interface Proposal for IEEE 802.21 Media Independent Handover. , 2007, , .		13

#	ARTICLE	IF	CITATIONS
127	Performance evaluation of a multi-interface model for media independent handover. , 2007, , .		2
128	A study on RAT selection algorithms in combined UMTS/GSM networks. , 2007, , .		1
129	Consecutive transmit power control ratio aided adaptive power control for UMTS. Electronics Letters, 2007, 43, 297.	1.0	5
130	Teaching about Firewall Concepts using the iNetwork Simulator. , 2006, , .		3
131	Network management challenges for next generation networks. , 2005, , .		25
132	Planning point-to-multipoint rural radio access networks using expert systems. Expert Systems With Applications, 1999, 17, 145-166.	7.6	7
133	Engineering education: how can computers help?. , 0, , .		1
134	Simulated training environments for diagnostic tasks. , 0, , .		0
135	Voice recognition using neural networks. , 0, , .		22
136	Requirements for identity management in next generation networks. , 0, , .		4
137	UMTS core network planning model and comparison of vendor product performance. , 0, , .		17
138	Grid Architecture Storage " Utilising Grid Computing for Dynamic Data Storage. , 0, , .		1
139	Identity Management in Vertical Handovers for UMTS-WLAN Networks. , 0, , .		3
140	Technology Assessment for Single Stage and Multi-Stage Mobile Applications. , 0, , .		2