

# 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	A survey on data aggregation techniques in IoT sensor networks. <i>Wireless Networks</i> , 2020, 26, 1243-1263.	3.0	145
2	Performance of well known packet scheduling algorithms in the downlink 3GPP LTE system. , 2009, , .		119
3	Performance analysis of EXP/PF and M-LWDF in downlink 3GPP LTE system. , 2009, , .		105
4	Crowdsourcing and Sensing for Indoor Localization in IoT: A Review. <i>IEEE Sensors Journal</i> , 2019, 19, 2408-2434.	4.7	89
5	SINR, RSRP, RSSI and RSRQ Measurements in Long Term Evolution Networks. <i>International Journal of Wireless and Mobile Networks</i> , 2015, 7, 113-123.	0.2	87
6	Smartphone-Based Indoor Positioning Using BLE iBeacon and Reliable Lightweight Fingerprint Map. <i>IEEE Sensors Journal</i> , 2020, 20, 10283-10294.	4.7	70
7	Delay-Prioritized Scheduling &#40;DPS&#41; for Real Time Traffic in 3GPP LTE System. , 2010, , .		61
8	Novel iBeacon Placement for Indoor Positioning in IoT. <i>IEEE Sensors Journal</i> , 2018, 18, 10240-10247.	4.7	52
9	A location-based smart shopping system with IoT technology. , 2018, , .		33
10	Practical fall detection based on IoT technologies: A survey. <i>Internet of Things (Netherlands)</i> , 2019, 8, 100124.	7.7	33
11	Optimized Performance Evaluation of LTE Hard Handover Algorithm with Average RSRP Constraint. <i>International Journal of Wireless and Mobile Networks</i> , 2011, 3, 1-16.	0.2	31
12	Transmission Power Adjustment Scheme for Mobile Beacon-Assisted Sensor Localization. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 2859-2869.	11.3	27
13	Pedestrian Monitoring System using Wi-Fi Technology And RSSI Based Localization. <i>International Journal of Wireless and Mobile Networks</i> , 2013, 5, 17-34.	0.2	26
14	Network management challenges for next generation networks. , 2005, , .		25
15	A Survey on Common Radio Resource Management. , 2007, , .		25
16	A coloring-based resource allocation for OFDMA femtocell networks. , 2013, , .		25
17	Highly Accurate Step Counting at Various Walking States Using Low-Cost Inertial Measurement Unit Support Indoor Positioning System. <i>Sensors</i> , 2018, 18, 3186.	3.8	24
18	Development of a Real-Time, Simple and High-Accuracy Fall Detection System for Elderly Using 3-DOF Accelerometers. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 3329-3342.	3.0	24

#	ARTICLE	IF	CITATIONS
19	Survey of intercell interference mitigation techniques in LTE downlink networks. , 2012, , .		23
20	Road Vehicle Detection and Classification Using Magnetic Field Measurement. IEEE Access, 2019, 7, 52622-52633.	4.2	23
21	Voice recognition using neural networks. , 0, , .		22
22	Impact of CQI feedback rate/delay on scheduling video streaming services in LTE downlink. , 2010, , .		22
23	Performance analysis of PF, M-LWDF and EXP/PF packet scheduling algorithms in 3GPP LTE downlink. , 2014, , .		22
24	An Improved Indoor Positioning Accuracy Using Filtered RSSI and Beacon Weight. IEEE Sensors Journal, 2021, 21, 18205-18213.	4.7	22
25	UMTS core network planning model and comparison of vendor product performance. , 0, , .		17
26	Resource allocation technique for video streaming applications in the LTE system. , 2010, , .		16
27	Performance study of new adaptive power control algorithm. , 2007, , .		15
28	Modeling and simulation of packet scheduling in the downlink long term evolution system. , 2009, , .		14
29	Optimization of handover algorithms in 3GPP long term evolution system. , 2011, , .		14
30	A Multi-Interface Proposal for IEEE 802.21 Media Independent Handover. , 2007, , .		13
31	Multi-Level Indoor Navigation Ontology for High Assurance Location-Based Services. , 2017, , .		13
32	Requirement of Handover Modeling in the Downlink 3GPP Long Term Evolution System. , 2010, , .		12
33	Interference Management in Lte Downlink Networks. International Journal of Wireless and Mobile Networks, 2015, 7, 91-106.	0.2	12
34	Performance Evaluation on Common Radio Resource Management Algorithms. , 2010, , .		11
35	A survey of Direction of Arrival estimation techniques and implementation of channel estimation based on SCME. , 2015, , .		11
36	A Collision Resolution Algorithm for RFID Using Modified Dynamic Tree With Bayesian Tag Estimation. IEEE Communications Letters, 2018, 22, 2238-2241.	4.1	11

#	ARTICLE	IF	CITATIONS
37	Indoor localization for IoT applications using fingerprinting. , 2018, , .		10
38	Performance of well-known frequency reuse algorithms in LTE downlink 3GPP LTE systems. , 2015, , .		9
39	A closed-form expression for coverage probability of random cellular network in composite Rayleigh-Lognormal fading channels. , 2015, , .		9
40	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
41	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
42	Performance Analysis of Adaptive Noise Canceller Employing NLMS Algorithm. International Journal of Wireless and Mobile Networks, 2015, 7, 45-58.	0.2	9
43	HARQ aware scheduling algorithm for the downlink LTE system. , 2011, , .		8
44	On the Performance of PF, MLWDF and EXP/PF algorithms in LTE. International Journal of Computers & Technology, 2013, 8, 698-706.	0.2	8
45	Planning point-to-multipoint rural radio access networks using expert systems. Expert Systems With Applications, 1999, 17, 145-166.	7.6	7
46	Robust scheduling algorithm for guaranteed bit rate services. International Journal of Mobile Communications, 2013, 11, 71.	0.3	7
47	Limited Comp Handover Algorithm For LTE-Advanced. Journal of Engineering (United States), 2013, 2013, 1-9.	1.0	7
48	An enhanced intercell interference coordination scheme using fuzzy logic controller in LTE-advanced heterogeneous networks. , 2014, , .		7
49	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
50	Performance Comparison of Adaptive Power Control in UMTS. , 2007, , .		6
51	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
52	Handover algorithm with joint processing in LTE-advanced. , 2012, , .		6
53	Performance evaluation of cell selection techniques for picocells in LTE-advanced networks. , 2013, , .		6
54	Performance analysis of two component carrier selection algorithms in the downlink LTE-A. , 2013, , .		6

#	ARTICLE	IF	CITATIONS
55	Performance comparison of packet scheduling algorithms in LTE-A HetNets. , 2016, , .		6
56	Performance Analysis of Frequency Reuse for PPP Networks in Composite Rayleigh-Lognormal Fading Channel. Wireless Personal Communications, 2017, 96, 989-1006.	2.7	6
57	Develop An Indoor Space Ontology For Finding Lost Properties for Location-Based Service of Smart City. , 2018, , .		6
58	Consecutive transmit power control ratio aided adaptive power control for UMTS. Electronics Letters, 2007, 43, 297.	1.0	5
59	Partial time delay compensation technique for UMTS adaptive power control. Electronics Letters, 2008, 44, 487.	1.0	5
60	Performance Analysis of Two Packet Scheduling Algorithms in Downlink 3GPP LTE System. , 2010, , .		5
61	On the performance of capacity integrated CoMP handover algorithm in LTE-Advanced. , 2012, , .		5
62	Performance of soft frequency reuse in random cellular networks in Rayleigh-Lognormal fading channels. , 2016, , .		5
63	Performance analysis of fractional frequency reuse in uplink random cellular networks. Physical Communication, 2017, 25, 469-482.	2.1	5
64	A proxy based authentication localisation scheme for handover between non trust-associated domains. Mobile Computing and Communications Review, 2010, 13, 47-58.	1.7	5
65	Requirements for identity management in next generation networks. , 0, , .		4
66	A study of packet scheduling with mobile cellular channel impairments. , 2012, , .		4
67	A distributed non-uniform pricing approach for power optimization in spectrum-sharing femtocell network. , 2013, , .		4
68	A Simulation Tool for Downlink Long Term Evolution-advanced. Research Journal of Applied Sciences, Engineering and Technology, 2014, 8, 2032-2041.	0.1	4
69	A fuzzy Q-learning approach for enhanced intercell interference coordination in LTE-Advanced heterogeneous networks. , 2014, , .		4
70	Benchmarking of real-time LTE network in dynamic environment. , 2016, , .		4
71	Improve Indoor Positioning Accuracy Using Filtered RSSI and Beacon Weight Approach in iBeacon Network. , 2019, , .		4
72	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

#	ARTICLE	IF	CITATIONS
73	Identity Management in Vertical Handovers for UMTS-WLAN Networks. , 0, , .		3
74	Teaching about Firewall Concepts using the iNetwork Simulator. , 2006, , .		3
75	User speed estimation techniques for UMTS. Electronics Letters, 2007, 43, 1036.	1.0	3
76	Trust-Assisted Handover Decision Algorithm in Hybrid Wireless Networks. , 2007, , .		3
77	System-Level Modeling and Simulation of Uplink WCDMA. , 2008, , .		3
78	Analysis of Hybrid ARQ in 3GPP LTE systems. , 2010, , .		3
79	Modeling and simulation of packet scheduling in the downlink LTE-advanced. , 2011, , .		3
80	Benchmarking Embedded Devices for Broadband Performance Testing. , 2011, , .		3
81	Optimised proportional fair algorithm for long-term evolution-advanced system with multiple component carriers. IET Communications, 2012, 6, 1579.	2.2	3
82	System level simulation for femtocellular networks. , 2014, , .		3
83	A dynamic almost blank subframe scheme for video streaming traffic model in heterogeneous networks. , 2015, , .		3
84	Modelling and Simulation of Handover in Light Fidelity (Li-Fi) Network. , 2018, , .		3
85	A fast tag identification anti-collision algorithm for RFID systems. International Journal of Communication Systems, 2019, 32, e4108.	2.5	3
86	Fractional Frequency Reuse in Multi-tier Networks: Performance Analysis and Optimization. International Journal of Wireless Information Networks, 2020, 27, 164-183.	2.7	3
87	Advances in Multimedia Information Processing - PCM 2009. Lecture Notes in Computer Science, 2009, , .	1.3	3
88	A Novel Approach for Mobility Management in LTE Femtocells. International Journal of Wireless and Mobile Networks, 2014, 6, 45-58.	0.2	3
89	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
90	Technology Assessment for Single Stage and Multi-Stage Mobile Applications. , 0, , .		2

#	ARTICLE	IF	CITATIONS
91	Forecasting Asia Pacific Mobile Market Trends Using Regression Analysis. , 2007, , .		2
92	Performance evaluation of a multi-interface model for media independent handover. , 2007, , .		2
93	Network controlled handover scheme for heterogeneous network. Electronics Letters, 2008, 44, 604.	1.0	2
94	Proportional fair scheduling with reduced feedback. Electronics Letters, 2009, 45, 472.	1.0	2
95	Trust-Assisted Handover Approach in Hybrid Wireless Networks. Wireless Personal Communications, 2010, 52, 477-499.	2.7	2
96	A Markov Model for Performance Evaluation of CRRM Algorithms in a Co-Located GERAN/UTRAN/WLAN Scenario. , 2010, , .		2
97	Impact of soft handover and pilot pollution on video telephony in a commercial network. , 2010, , .		2
98	Opportunistic feedback for proportional fair scheduling. , 2011, , .		2
99	System level simulation to evaluate the interference in macrocell-picocell downlink systems. , 2013, , .		2
100	Dynamic path of mobile beacon in localisation of wireless sensor network. International Journal of Sensor Networks, 2014, 15, 130.	0.4	2
101	A dynamic cell range expansion scheme based on fuzzy logic system in LTE-advanced heterogeneous networks. , 2014, , .		2
102	Packet Scheduling Study For Heterogeneous Traffic In Downlink 3gpplte System. International Journal of Wireless and Mobile Networks, 2015, 7, 91-106.	0.2	2
103	Strict frequency reuse algorithm in random cellular networks. , 2016, , .		2
104	A closed-form of cooperative detection probability using EGC-based soft decision under Suzuki fading. , 2017, , .		2
105	Develop A Virtual System Using Traffic Flow Model For Intelligent Transportation in Smart City. , 2018, , .		2
106	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
107	System Level Simulation for Two Tier Macro-Femto Cellular Networks. International Journal of Wireless and Mobile Networks, 2014, 6, 01-14.	0.2	2
108	Analytical Coverage Probability of a Typical User In Heterogeneous Cellular Networks. Journal of Networks, 2016, 11, .	0.4	2

#	ARTICLE	IF	CITATIONS
109	Engineering education: how can computers help?. , 0, , .		1
110	Grid Architecture Storage " Utilising Grid Computing for Dynamic Data Storage. , 0, , .		1
111	A study on RAT selection algorithms in combined UMTS/GSM networks. , 2007, , .		1
112	Performance study of video streaming in commercial UMTS network. , 2008, , .		1
113	Tradeoff between overall throughput and throughput fairness in network controlled cell breathing algorithm. , 2009, , .		1
114	A system level simulation model for common radio resource management. , 2009, , .		1
115	Joint delay-aware opportunistic scheduling algorithm with reduced feedback to exploit multiuser diversity. , 2010, , .		1
116	Radio propagation modelling in the downlink LTE. , 2010, , .		1
117	Quality-driven scheduling for Long-Term Evolution system. International Journal of Mobile Communications, 2011, 9, 441.	0.3	1
118	Hybrid scheduling technique for multiuser systems. , 2012, , .		1
119	A multimedia transmission control algorithm based on cross-layer design in UMTS networks. Wireless Networks, 2015, 21, 949-961.	3.0	1
120	Optimal strict frequency reuse in cellular networks-based stochastic geometry model. , 2017, , .		1
121	Uplink Performance of Ultra Dense Networks with Power Control. , 2019, , .		1
122	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
123	Simulated training environments for diagnostic tasks. , 0, , .		0
124	Performance of adaptive power control in presence of loop delays. , 2007, , .		0
125	Opportunistic downlink sum-rate with multiple feedback thresholds. , 2010, , .		0
126	Speed estimation using transmit power control commands for UMTS. , 2010, , .		0



#	ARTICLE	IF	CITATIONS
127	Analysis of opportunistic contention-based feedback protocol for downlink OFDMA. , 2010, , .		0
128	A User Level Markov model for service based CRRM algorithm. , 2010, , .		0
129	Adaptive feedback algorithm for OFDMA systems. , 2011, , .		0
130	Link adaptation with multiple feedback thresholds. , 2012, , .		0
131	Multiple Criteria Based Algorithms. Springer Briefs in Electrical and Computer Engineering, 2012, , 23-33.	0.5	0
132	Analysis of the influence to productivity of software corrective maintenance using an economic model. , 2014, , .		0
133	Interoperability and Quality Assurance for Multi-Vendor LTE Network. International Journal of Wireless and Mobile Networks, 2015, 7, 65-76.	0.2	0
134	Comparison of Performance of Packet Scheduling Algorithms in LTE-A HetNets. Wireless Personal Communications, 2017, 97, 1947-1965.	2.7	0
135	Develop A Web-Based Visualisation Platform For Wireless Sensor Network Generation. , 2018, , .		0
136	A Model Based Poisson Point Process for Downlink Cellular Networks Using Joint Scheduling. Wireless Personal Communications, 2019, 107, 1717-1725.	2.7	0
137	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
138	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
139	Rach Congestion in Vehicular Networking. International Journal of Wireless and Mobile Networks, 2014, 6, 153-164.	0.2	0
140	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