

Miguel LÃ³pez-BenÃ¡tez

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

1,597
citations

535685

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102
all docs

102
docs citations

102
times ranked

991
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Analysis of Dual-Hop RF/FSO Relaying Systems With Imperfect CSI. IEEE Transactions on Vehicular Technology, 2022, 71, 4965-4976.	3.9	9
2	Iterative Pyramidal Filtering Method for Improved Signal Recognition in Radio Spectrograms. IEEE Wireless Communications Letters, 2022, 11, 1146-1150.	3.2	0
3	Enhanced Signal Area Estimation Based on Edge Detection and Flood Fill. IEEE Access, 2022, 10, 47179-47194.	2.6	4
4	A Review of Wavelet Analysis and Its Applications: Challenges and Opportunities. IEEE Access, 2022, 10, 58869-58903.	2.6	87
5	Towards Deep Radar Perception for Autonomous Driving: Datasets, Methods, and Challenges. Sensors, 2022, 22, 4208.	2.1	31
6	Deep Learning-based Fingerprinting for Outdoor UE Positioning Utilising Spatially Correlated RSSs of 5G Networks. , 2022, , .		4
7	Modelling the Impact of Multiple Pro-inflammatory Cytokines Using Molecular Communication. , 2022, , .		0
8	LSTM Autoencoder aided Estimation of Primary Activity Statistics under Imperfect Sensing. , 2021, , .		2
9	Performance Analysis of Dual-Hop Wireless Systems Over Mixed FSO/RF Fading Channel. IEEE Access, 2021, 9, 85529-85542.	2.6	19
10	Feature-Based Deep Neural Networks for Short-Term Prediction of WiFi Channel Occupancy Rate. IEEE Access, 2021, 9, 85645-85660.	2.6	4
11	Comments and Corrections to "New Results on the Fluctuating Two-Ray Model With Arbitrary Fading Parameters and Its Applications" IEEE Transactions on Vehicular Technology, 2021, 70, 1938-1940.	3.9	13
12	Evaluation of the Impact of Thresholding and Frequency/Time Resolution on Signal Area Estimation Methods. , 2021, , .		4
13	Cooperative Spectrum Sensing: A New Approach for Minimum Interference and Maximum Utilisation. , 2021, , .		4
14	A Minesweeper Algorithm for Improved Signal Area Estimation in Spectrum Aware Systems. , 2021, , .		4
15	Traffic Learning: A Deep Learning Approach for Obtaining Accurate Statistical Information of the Channel Traffic in Spectrum Sharing Systems. IEEE Access, 2021, 9, 124324-124336.	2.6	5
16	Impact of Mobility on the Estimation of Primary Channel Activity Statistics. , 2021, , .		1
17	Improved likelihood ratio statistic-based cooperative spectrum sensing for cognitive radio. IET Communications, 2020, 14, 1675-1686.	1.5	15
18	Artificial neural network design for improved spectrum sensing in cognitive radio. Wireless Networks, 2020, 26, 6155-6174.	2.0	12

#	ARTICLE	IF	CITATIONS
19	Reconstruction Algorithm for Primary Channel Statistics Estimation Under Imperfect Spectrum Sensing. , 2020, , .		8
20	Methods for Fast Estimation of Primary Activity Statistics in Cognitive Radio Systems. , 2020, , .		1
21	Analysis of the Sample Size Required for an Accurate Estimation of Primary Channel Activity Statistics under Imperfect Spectrum Sensing. , 2020, , .		3
22	Novel LAA Waiting and Transmission Time Configuration Methods for Improved LTE-LAA/Wi-Fi Coexistence Over Unlicensed Bands. IEEE Access, 2020, 8, 162373-162393.	2.6	10
23	Long Short-Term Memory Based Spectrum Sensing Scheme for Cognitive Radio Using Primary Activity Statistics. IEEE Access, 2020, 8, 97437-97451.	2.6	66
24	Aggregated Traffic Models for Real-World Data in the Internet of Things. IEEE Wireless Communications Letters, 2020, , 1-1.	3.2	10
25	Applying Deep Neural Networks for Duty Cycle Estimation. , 2020, , .		6
26	Real Smart Home Data-Assisted Statistical Traffic Modeling for the Internet of Things. IEEE Internet of Things Journal, 2020, 7, 4761-4776.	5.5	9
27	Estimation of Primary Channel Activity Statistics in Cognitive Radio Based on Imperfect Spectrum Sensing. IEEE Transactions on Communications, 2020, 68, 2016-2031.	4.9	35
28	A Comparative Study of RTL-SDR Dongles from the Perspective of the Final Consumer. , 2020, , .		4
29	Design of Spectrum Usage Detection in Wideband Spectrum Measurements. IEEE Access, 2019, 7, 133725-133737.	2.6	3
30	On the estimation of primary user activity statistics for long and short time scale models in cognitive radio. Wireless Networks, 2019, 25, 5099-5111.	2.0	8
31	Accurate Modelling of IoT Data Traffic Based on Weighted Sum of Distributions. , 2019, , .		4
32	Performance Evaluation of Improved Energy Detection under Signal and Noise Uncertainties in Cognitive Radio Networks. , 2019, , .		8
33	Experimental Evaluation of the Poissonness of Real Sensor Data Traffic in the Internet of Things. , 2019, , .		5
34	Experimental Performance Evaluation of Improved Energy Detection under Noise Uncertainty in Low SNR Regime. , 2019, , .		2
35	Primary Channel Duty Cycle Estimation under Imperfect Spectrum Sensing Based on Mean Channel Periods. , 2019, , .		6
36	Long Short-Term Memory based Spectrum Sensing Scheme for Cognitive Radio. , 2019, , .		10

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37	A Spectrum Analyzer Based on a Low-Cost Hardware-Software Integration. , 2019, , .		5
38	Dynamic Contention Window Methods for Improved Coexistence Between LTE and Wi-Fi in Unlicensed Bands. , 2019, , .		7
39	Time and Frequency Varying Noise Floor Estimation for Spectrum Usage Measurement. , 2019, , .		6
40	Estimation of Primary Channel Activity Statistics in Cognitive Radio Based on Periodic Spectrum Sensing Observations. IEEE Transactions on Wireless Communications, 2019, 18, 983-996.	6.1	25
41	On the Sample Size for the Estimation of Primary Activity Statistics Based on Spectrum Sensing. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 59-72.	4.9	9
42	Efficient Time Domain Deterministic-Stochastic Model of Spectrum Usage. IEEE Transactions on Wireless Communications, 2018, 17, 1518-1527.	6.1	23
43	Coexistence Mechanisms for LTE and Wi-Fi Networks over Unlicensed Frequency Bands. , 2018, , .		17
44	Cooperative Estimation of Primary Traffic Under Imperfect Spectrum Sensing and Byzantine Attacks. IEEE Access, 2018, 6, 61651-61664.	2.6	7
45	Performance analysis of SNR threshold-setting strategies for adaptive modulation and coding under fading channels. Physical Communication, 2018, 30, 154-166.	1.2	4
46	Performance Analysis of Selection Diversity Combining Using Improved Energy Detection over Rayleigh Fading Channel. , 2018, , .		1
47	Accurate estimation of primary user traffic based on periodic spectrum sensing. , 2018, , .		6
48	A study on time domain deterministic-stochastic model of spectrum usage in WLAN. , 2018, , .		0
49	Improving primary statistics prediction under imperfect spectrum sensing. , 2018, , .		11
50	A Study on False Alarm Cancellation for Spectrum Usage Measurements. , 2017, , .		7
51	Investigating the Estimation of Primary Occupancy Patterns under Imperfect Spectrum Sensing. , 2017, , .		7
52	PECAS: A Low-Cost Prototype for the Estimation of Channel Activity Statistics in Cognitive Radio. , 2017, , .		8
53	Prototype for multidisciplinary research in the context of the Internet of Things. Journal of Network and Computer Applications, 2017, 78, 146-161.	5.8	12
54	Analytical study on the estimation of primary activity distribution based on spectrum sensing. , 2017, , .		7

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55	Artificial neural network based hybrid spectrum sensing scheme for cognitive radio. , 2017, , .		50
56	Study on simple signal area estimation for efficient spectrum measurements. , 2017, , .		8
57	Welch FFT Segment Size Selection Method for Spectrum Awareness System. IEICE Transactions on Communications, 2016, E99.B, 1813-1823.	0.4	8
58	Smart Spectrum Technologies for Mobile Information Systems. Mobile Information Systems, 2016, 2016, 1-2.	0.4	0
59	Outage probability and average error performance of modulation schemes under Nakagami-q (Hoyt) and Nakagami-n (Rice) fading channels. , 2016, , .		4
60	Throughput performance models for adaptive modulation and coding under fading channels. , 2016, , .		10
61	Energy detection based estimation of primary Channel Occupancy Rate in Cognitive Radio. , 2016, , .		4
62	Outage probability and average error performance of modulation schemes under $\hat{\Gamma}$ - $\hat{\Gamma}^{1/4}$ and $\hat{\Gamma}^2$ - $\hat{\Gamma}^{1/4}$ fading channels in terms of elementary functions. , 2016, , .		0
63	On the sensing sample size for the estimation of primary channel occupancy rate in cognitive radio. , 2016, , .		4
64	Space-dimension models of spectrum usage for cognitive radio networks. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	13
65	Simple Primary User Signal Area Estimation for Spectrum Measurement. IEICE Transactions on Communications, 2016, E99.B, 523-532.	0.4	26
66	Average of arbitrary powers of Gaussian Qâ€œfunction over $\langle i \rangle^{\hat{\Gamma}}$ and $\langle i \rangle^{\hat{\Gamma}^{1/4}}$ and $\langle i \rangle^{\hat{\Gamma}^2}$ and $\langle i \rangle^{\hat{\Gamma}^{1/4}}$ fading channels. Electronics Letters, 2015, 51, 869-871.	0.5	8
67	Improved Channel Occupancy Rate Estimation. IEEE Transactions on Communications, 2015, 63, 643-654.	4.9	32
68	Sensing-based spectrum awareness in Cognitive Radio: Challenges and open research problems. , 2014, , .		11
69	A framework for multidimensional modelling of spectrum occupancy in the simulation of cognitive radio systems. , 2014, , .		2
70	Spectrum Usage in Cognitive Radio Networks: From Field Measurements to Empirical Models. IEICE Transactions on Communications, 2014, E97.B, 242-250.	0.4	25
71	Signal Uncertainty in Spectrum Sensing for Cognitive Radio. IEEE Transactions on Communications, 2013, 61, 1231-1241.	4.9	50
72	Can primary activity statistics in Cognitive Radio be estimated under imperfect spectrum sensing?. , 2013, , .		23

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73	Time-Dimension Models of Spectrum Usage for the Analysis, Design, and Simulation of Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 2091-2104.	3.9	90
74	Cognitive radio. , 2013, , 383-425.		29
75	Spectrum Usage Models for the Analysis, Design and Simulation of Cognitive Radio Networks. Lecture Notes in Electrical Engineering, 2012, , 27-73.	0.3	23
76	A Radio Spectrum Measurement Platform for Spectrum Surveying in Cognitive Radio. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 59-74.	0.2	6
77	Discrete-time spectrum occupancy model based on Markov Chain and duty cycle models. , 2011, , .		34
78	Common Radio Resource Management Algorithms for Multimedia Heterogeneous Wireless Networks. IEEE Transactions on Mobile Computing, 2011, 10, 1201-1213.	3.9	30
79	Modeling and simulation of joint time-frequency properties of spectrum usage in cognitive radio. , 2011, , .		10
80	Modeling and Simulation of Time-Correlation Properties of Spectrum Use in Cognitive Radio. , 2011, , .		21
81	Empirical Time-Dimension Model of Spectrum Use Based on a Discrete-Time Markov Chain With Deterministic and Stochastic Duty Cycle Models. IEEE Transactions on Vehicular Technology, 2011, 60, 2519-2533.	3.9	55
82	Versatile, Accurate, and Analytically Tractable Approximation for the Gaussian Q-Function. IEEE Transactions on Communications, 2011, 59, 917-922.	4.9	73
83	Statistical Prediction of Spectrum Occupancy Perception in Dynamic Spectrum Access Networks. , 2011, , .		16
84	An Overview of Spectrum Occupancy Models for Cognitive Radio Networks. Lecture Notes in Computer Science, 2011, , 32-41.	1.0	16
85	Real-Time Emulation of Heterogeneous Wireless Networks with End-to-Edge Quality of Service Guarantees: The AROMA Testbed. Eurasip Journal on Wireless Communications and Networking, 2010, , .	1.5	5
86	Link adaptation algorithms for improved delivery of delay- and error-sensitive packet-data services over wireless networks. Wireless Networks, 2010, 16, 593-606.	2.0	3
87	Methodological aspects of spectrum occupancy evaluation in the context of cognitive radio. European Transactions on Telecommunications, 2010, 21, 680-693.	1.2	67
88	Spatial duty cycle model for Cognitive Radio. , 2010, , .		13
89	Performance of spectrum sensing for cognitive radio based on field measurements of various radio technologies. , 2010, , .		23
90	On the spectrum occupancy perception of cognitive radio terminals in realistic scenarios. , 2010, , .		27

#	ARTICLE	IF	CITATIONS
91	Methodological aspects of spectrum occupancy evaluation in the context of cognitive radio. , 2009, , .		28
92	Evaluation of Spectrum Occupancy in Spain for Cognitive Radio Applications. , 2009, , .		100
93	Spectral occupation measurements and blind standard recognition sensor for cognitive radio networks. , 2009, , .		40
94	Quality of experience evaluation under QoS-aware mobility mechanisms. , 2008, , .		10
95	Advanced and versatile real-time emulation platform for heterogeneous radio access systems. , 2008, , .		1
96	Real-time evaluation of radio access technology selection policies in heterogeneous wireless systems. , 2008, , .		0
97	End-to-edge QoS across Heterogeneous Wireless and Wired Domains. , 2008, , .		0
98	Real-time HSPA emulator for end-to-edge QoS evaluation in all-IP beyond 3G heterogeneous wireless networks. , 2008, , .		4
99	The real-time AROMA testbed for all-IP heterogeneous wireless access networks. , 2008, , .		3
100	QoS provisioning in beyond 3G heterogeneous wireless systems through common radio resource management algorithms. , 2006, , .		5
101	Link adaptation algorithm for improved wireless transmission of delay-sensitive packet data services. Electronics Letters, 2005, 41, 813.	0.5	8