Vicent Pla

List of Publications by Year
in descending order

129 papers	1,421 citations
516681 16 h-index	526264 27 g-index
133 all docs	133 docs citations
133 times ranked	1112 citing authors

#	Article	IF	Citations
1	Duopoly Provision of Services Based on Wireless Sensor-supplied Data: a Differential Game Model. Mobile Networks and Applications, 2021, 26, 512-522.	3.3	0
2	Competition Between Service Providers With Strategic Resource Allocation: Application to Network Slicing. IEEE Access, 2021, 9, 76503-76517.	4.2	4
3	Two-Stage Adaptive Relay Selection and Power Allocation Strategy for Cooperative CR-NOMA Networks in Underlay Spectrum Sharing. Applied Sciences (Switzerland), 2021, 11, 10433.	2.5	8
4	Predictive Algorithm for Handover Decisions between LTE and LTE-A Networks. Journal of Telecommunications and the Digital Economy, 2021, 9, 110-126.	0.6	1
5	Economic feasibility of virtual operators in 5G via network slicing. Future Generation Computer Systems, 2020, 109, 172-187.	7.5	12
6	Network-Coded Cooperation and Multi-Connectivity for Massive Content Delivery. IEEE Access, 2020, 8, 15656-15672.	4.2	12
7	Modeling of Duty-Cycled MAC Protocols for Heterogeneous WSN with Priorities. Electronics (Switzerland), 2020, 9, 467.	3.1	5
8	Deep reinforcement learning mechanism for dynamic access control in wireless networks handling mMTC. Ad Hoc Networks, 2019, 94, 101939.	5.5	14
9	Economic Analysis of a Multi-Sided Platform for Sensor-Based Services in the Internet of Things. Sensors, 2019, 19, 373.	3.8	8
10	Software-Defined architecture for QoS-Aware IoT deployments in 5G systems. Ad Hoc Networks, 2019, 93, 101911.	5.5	27
11	Performance Study and Enhancement of Access Barring for Massive Machine-Type Communications. IEEE Access, 2019, 7, 63745-63759.	4.2	14
12	Filtering Methods for Efficient Dynamic Access Control in 5G Massive Machine-Type Communication Scenarios. Electronics (Switzerland), 2019, 8, 27.	3.1	3
13	Discrete-Time Analysis of Cognitive Radio Networks with Nonsaturated Source of Secondary Users. Wireless Communications and Mobile Computing, 2019, 2019, 1-12.	1.2	7
14	Intelligent Municipal Heritage Management Service in a Smart City: Telecommunication Traffic Characterization and Quality of Service. Wireless Communications and Mobile Computing, 2019, 2019, 1-10.	1.2	9
15	Competition in data-based service provision: Nash equilibrium characterization. Future Generation Computer Systems, 2019, 96, 35-50.	7.5	10
16	On the Use of Graphs for Node Connectivity in Wireless Sensor Networks for Hostile Environments. Journal of Sensors, 2019, 2019, 1-22.	1.1	2
17	Adaptive access class barring for efficient mMTC. Computer Networks, 2019, 149, 252-264.	5.1	7
18	Efficient Random Access Channel Evaluation and Load Estimation in LTE-A With Massive MTC. IEEE Transactions on Vehicular Technology, 2019, 68, 1998-2002.	6.3	26

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19	Dynamic Spectrum Reservation for CR Networks in the Presence of Channel Failures: Channel Allocation and Reliability Analysis. IEEE Transactions on Wireless Communications, 2018, 17, 882-898.	9.2	34
20	Modelling of S-MAC for Heterogeneous WSN. , 2018, , .		5
21	MAC Protocols for Wake-Up Radio: Principles, Modeling and Performance Analysis. IEEE Transactions on Industrial Informatics, 2018, 14, 2294-2306.	11.3	46
22	Performance Analysis and Optimal Access Class Barring Parameter Configuration in LTE-A Networks With Massive M2M Traffic. IEEE Transactions on Vehicular Technology, 2018, 67, 3505-3520.	6.3	73
23	Price competition between a macrocell and a small-cell service provider with limited resources and optimal bandwidth user subscription: a game-theoretical model. Telecommunication Systems, 2018, 67, 195-209.	2.5	4
24	Competition in Service Provision between Slice Operators in 5G Networks. Electronics (Switzerland), 2018, 7, 315.	3.1	7
25	Lightweight Relay Selection in Multi-Hop Wake-Up Radio Enabled IoT Networks. , 2018, , .		3
26	Strategic Interaction between Operators in the Context of Spectrum Sharing for 5G Networks. Wireless Communications and Mobile Computing, 2018, 2018, 1-10.	1.2	5
27	Reinforcement Learning-Based ACB in LTE-A Networks for Handling Massive M2M and H2H Communications. , 2018, , .		40
28	SDN-based architecture for providing reliable Internet of Things connectivity in 5G systems. , 2018, , .		12
29	Dynamic access class barring parameter tuning in LTE-A networks with massive M2M traffic. , 2018, , .		20
30	A dynamic channel access strategy for underlay cognitive radio networks: Markov modelling and performance evaluation. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2928.	3.9	7
31	A hybrid method for the QoS analysis and parameter optimization in time-critical random access wireless sensor networks. Journal of Network and Computer Applications, 2017, 83, 190-203.	9.1	7
32	Game Theoretical Analysis of Service Provision for the Internet of Things Based on Sensor Virtualization. IEEE Journal on Selected Areas in Communications, 2017, 35, 691-706.	14.0	36
33	System Times and Channel Availability for Secondary Transmissions in CRNs: A Dependability-Theory-Based Analysis. IEEE Transactions on Vehicular Technology, 2017, 66, 2771-2788.	6.3	12
34	Handover based on a multi criteria approach in WiMax networks. , 2017, , .		0
35	Joint resource and price competition in wireless sensor network-based service provision. , 2017, , .		1
36	Wireless sensor network-based service provision: A three-sided market model. , 2017, , .		1

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37	On the Accurate Performance Evaluation of the LTE-A Random Access Procedure and the Access Class Barring Scheme. IEEE Transactions on Wireless Communications, 2017, 16, 7785-7799.	9.2	33
38	Economic analysis of a centralized brokering platform for wireless sensor data. , 2017, , .		3
39	On the Accurate Performance Evaluation of the LTE-A Random Access Procedure. , 2017, , .		0
40	Vertical handover decision algorithm in heterogeneous wireless networks. International Journal of Internet Protocol Technology, 2017, 10, 197.	0.2	0
41	Wireless Sensor Network-Based Service Provisioning by a Brokering Platform. Sensors, 2017, 17, 1115.	3.8	9
42	Economic viability of HTC and MTC service provision on a common network infrastructure. , 2017, , .		4
43	Performance analysis of wireless networks based on time-scale separation: A new iterative method. Computer Communications, 2016, 86, 40-48.	5.1	2
44	Pricing of Wireless Sensor Data on a centralized bundling platform. , 2016, , .		4
45	Performance analysis of access class barring for handling massive M2M traffic in LTE-A networks. , 2016, , .		37
46	Significance of channel failures on network performance in CRNs with reserved spectrum. , 2016, , .		9
47	Optimal pricing strategy for a wireless sensor data broker under a Zipf-distributed sensing rate offer. , 2016, , .		3
48	Maximum-Profit Two-Sided Pricing in Service Platforms Based on Wireless Sensor Networks. IEEE Wireless Communications Letters, 2016, 5, 8-11.	5.0	24
49	Discrete time analysis of cognitive radio networks with imperfect sensing and saturated source of secondary users. Computer Communications, 2016, 79, 53-65.	5.1	7
50	Performance Analysis of Two-Tier Wireless Networks With Dynamic Traffic, Backhaul Constraints, and Terminal Mobility. IEEE Transactions on Vehicular Technology, 2016, 65, 241-250.	6.3	8
51	A Hybrid Method for Obtaining the Distribution of Report Latency in Wireless Sensor Networks. , 2015, , .		2
52	Candidate selection algorithms in opportunistic routing based on distance progress. International Journal of Ad Hoc and Ubiquitous Computing, 2015, 20, 137.	0.5	0
53	Search engine and content providers: neutrality, competition and integration. Transactions on Emerging Telecommunications Technologies, 2015, 26, 164-178.	3.9	5
54	QoS Analysis for a Nonpreemptive Continuous Monitoring and Event-Driven WSN Protocol in Mobile Environments. International Journal of Distributed Sensor Networks, 2015, 11, 471307.	2.2	7

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55	Modelling the time-varying cell capacity in LTE networks. Telecommunication Systems, 2014, 55, 299-313.	2.5	12
56	Channel Assembling with Priority-Based Queues in Cognitive Radio Networks: Strategies and Performance Evaluation. IEEE Transactions on Wireless Communications, 2014, 13, 630-645.	9.2	56
57	On the Performance of Channel Assembling and Fragmentation in Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2014, 13, 5661-5675.	9.2	27
58	Approximate Analysis of Cognitive Radio Systems Using Time-Scale Separation and its Accuracy. IEEE Communications Letters, 2013, 17, 35-38.	4.1	8
59	Dynamic spectrum sharing in cognitive radio networks using truthful mechanisms and virtual currency. Ad Hoc Networks, 2013, 11, 1858-1873.	5.5	45
60	Capacity Upper Bound of Channel Assembling in Cognitive Radio Networks With Quasistationary Primary User Activities. IEEE Transactions on Vehicular Technology, 2013, 62, 1849-1855.	6.3	13
61	Optimum node placement in wireless opportunistic routing networks. Ad Hoc Networks, 2013, 11, 2273-2287.	5.5	15
62	Entry game under opportunistic access in cognitive radio networks: A priority queue model. , 2013, , .		7
63	Approximate analysis of wireless systems based on time-scale decomposition. , 2013, , .		1
64	Opportunistic Routing in Wireless Mesh Networks. , 2013, , 289-330.		5
65	Entry, Competition, and Regulation in Cognitive Radio Scenarios: A Simple Game Theory Model. Mathematical Problems in Engineering, 2012, 2012, 1-13.	1.1	5
66	Efficient Method to Approximately Solve Retrial Systems with Impatience. Journal of Applied Mathematics, 2012, 2012, 1-18.	0.9	0
67	Femtocell Operator Entry Decision with Spectrum Bargaining and Service Competition. IEEE Communications Letters, 2012, 16, 1976-1979.	4.1	6
68	Resource management for Macrocell Users in hybrid access femtocells. , 2012, , .		11
69	Handover Performance for Elastic Flows in Mobile Cellular Networks. IEEE Communications Letters, 2012, 16, 1632-1635.	4.1	1
70	Optimal radio access technology selection on heterogeneous networks. Physical Communication, 2012, 5, 253-271.	2.1	5
71	Cognitive radio networks with elastic traffic. , 2012, , .		12
72	A game theory-based analysis of search engine non-neutral behavior. , 2012, , .		1

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73	Robustness of optimal channel reservation using handover prediction in multiservice wireless networks. Wireless Networks, 2012, 18, 621-633.	3.0	5
74	Modeling and Performance Analysis of Channel Assembling in Multichannel Cognitive Radio Networks With Spectrum Adaptation. IEEE Transactions on Vehicular Technology, 2012, 61, 2686-2697.	6.3	44
75	Competition in cognitive radio networks: Spectrum leasing and innovation. , 2011, , .		6
76	Competition and Bargaining in Wireless Networks with Spectrum Leasing. , 2011, , .		12
77	Dynamic Channel Aggregation Strategies in Cognitive Radio Networks with Spectrum Adaptation. , 2011, , .		14
78	Greedy versus Dynamic Channel Aggregation Strategy in CRNs: Markov Models and Performance Evaluation. Lecture Notes in Computer Science, 2011, , 22-31.	1.3	5
79	An analytical model to study the impact of time-varying cell capacity in LTE networks. , 2011, , .		9
80	Insensitive Call Admission Control for Wireless Multiservice Networks. IEEE Communications Letters, 2011, 15, 989-991.	4.1	9
81	Optimal Joint Call Admission Control with Vertical Handoff on Heterogeneous Networks. Lecture Notes in Computer Science, 2011, , 121-134.	1.3	1
82	Modeling and comparison of candidate selection algorithms in opportunistic routing. Computer Networks, 2011, 55, 2886-2898.	5.1	35
83	Saturation Throughput in a Heterogeneous Multi-Channel Cognitive Radio Network. , 2011, , .		9
84	Analysis of price competition under peering and transit agreements in Internet Service provision to peer-to-peer users. , 2011, , .		10
85	Discrete Time Analysis of Cognitive Radio Networks with Saturated Source of Secondary Users. Lecture Notes in Computer Science, 2011, , 3-12.	1.3	5
86	On the efficient solution of a multiserver system with two reattempt orbits. Mathematical and Computer Modelling, 2010, 51, 1082-1096.	2.0	3
87	On the Convergence of Truncated Processes of Multiserver Retrial Queues. Mathematical Problems in Engineering, 2010, 2010, 1-8.	1.1	1
88	Modeling and Characterization of Spectrum White Spaces for Underlay Cognitive Radio Networks. , 2010, , .		19
89	Robust admission control for streaming and elastic services in cellular networks. , 2010, , .		3
90	Admission Control and Interference Management in Dynamic Spectrum Access Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	6

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91	Comments on "analysis of cognitive radio spectrum access with optimal channel reservation". IEEE Communications Letters, 2010, , .	4.1	14
92	On the maximum performance in opportunistic routing. , 2010, , .		10
93	On the performance modeling of opportunistic routing. , 2010, , .		13
94	Analysis on channel bonding/aggregation for multi-channel cognitive radio networks. , 2010, , .		47
95	Analysis of Different Channel Sharing Strategies in Cognitive Radio Networks. Lecture Notes in Computer Science, 2010, , 70-73.	1.3	0
96	Maximizing the capacity of mobile cellular networks with heterogeneous traffic. Computer Networks, 2009, 53, 973-988.	5.1	1
97	On the impact of customer balking, impatience and retrials in telecommunication systems. Computers and Mathematics With Applications, 2009, 57, 217-229.	2.7	32
98	Optimal admission control in cognitive radio networks. , 2009, , .		42
99	Solving Multiserver Systems with Two Retrial Orbits Using Value Extrapolation: A Comparative Perspective. Lecture Notes in Computer Science, 2009, , 56-70.	1.3	1
100	Optimal robust policies for bandwidth allocation and admission control in wireless networks. Computer Networks, 2008, 52, 3258-3272.	5.1	10
101	Comments on "Call Blocking Probability and Bandwidth Utilization of OFDM Subcarrier Allocation in Next-generation Wireless Networks". IEEE Communications Letters, 2008, 12, 349-349.	4.1	23
102	Optimal admission control in multimedia mobile networks with handover prediction. IEEE Wireless Communications, 2008, 15, 38-44.	9.0	22
103	Optimal Design of Multiple Fractional Guard Channel Policy in Multiservice Cellular Networks. , 2008, , .		8
104	Value Extrapolation Technique to Solve Retrial Queues: A Comparative Perspective. ETRI Journal, 2008, 30, 492-494.	2.0	2
105	Generalized Truncated Methods for an Efficient Solution of Retrial Systems. Mathematical Problems in Engineering, 2008, 2008, 1-15.	1.1	7
106	Optimal Robust Policies for Bandwidth Allocation and Admission Control in Wireless Networks. , 2008, , .		0
107	Effect of redials and automatic retrials in cellular networks. IEEE Latin America Transactions, 2007, 5, 433-440.	1.6	0
108	Optimal Admission Control in Multimedia Mobile Networks with Movement Prediction: A Sensitivity Analysis. , 2007, , .		1

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109	Analysis of a Cellular Network with User Redials and Automatic Handover Retrials. Lecture Notes in Computer Science, 2007, , 210-222.	1.3	5
110	A Reinforcement Learning Approach for Admission Control in Mobile Multimedia Networks with Predictive Information. IEICE Transactions on Communications, 2007, E90-B, 1663-1673.	0.7	7
111	Adaptive Admission Control in Mobile Cellular Networks with Streaming and Elastic Traffic. , 2007, , 925-937.		0
112	Optimal Admission Control in Mobile Cellular Networks with Movement Prediction. IEEE Latin America Transactions, 2006, 4, 436-442.	1.6	3
113	Adaptive Reservation Scheme for Hierarchical Admission Control in Mobile Cellular Networks. IEEE Latin America Transactions, 2006, 4, 392-398.	1.6	0
114	Hierarchical Admission Control in Mobile Cellular Networks Using Adaptive Bandwidth Reservation. Lecture Notes in Computer Science, 2006, , 130-144.	1.3	0
115	Analysis of priority channel assignment schemes in mobile cellular communication systems: a spectral theory approach. Performance Evaluation, 2005, 59, 199-224.	1.2	12
116	A Spectral-Based Analysis of Priority Channel Assignment Schemes in Mobile Cellular Communication Systems*. International Journal of Wireless Information Networks, 2005, 12, 87-99.	2.7	4
117	Admission Control Policies in Multiservice Cellular Networks: Optimum Configuration and Sensitivity. Lecture Notes in Computer Science, 2005, , 121-135.	1.3	9
118	Adaptive Trunk Reservation Policies in Multiservice Mobile Wireless Networks. Lecture Notes in Computer Science, 2005, , 47-58.	1.3	1
119	Performance Bounds for Mobile Cellular Networks with Handover Prediction. Lecture Notes in Computer Science, 2005, , 35-46.	1.3	2
120	Algorithmic Computation of Optimal Capacity in Multiservice MobileWireless Networks. IEICE Transactions on Communications, 2005, E88-B, 797-799.	0.7	7
121	Optimal Bandwidth Reservation in Multiservice Mobile Cellular Networks with Movement Prediction. IEICE Transactions on Communications, 2005, E88-B, 4138-4141.	0.7	2
122	Evaluation of Cellular IP mobility tracking procedures. Computer Networks, 2004, 45, 261-279.	5.1	3
123	Evaluation of C IP mobility tracking procedures. Computer Networks, 2004, 45, 261-279.	5.1	0
124	Aggregation and conformance in differentiated service networks. Computer Communication Review, 2001, 31, 21-32.	1.8	21
125	Analytical-numerical study of the handoff area sojourn time. , 0, , .		9
126	Multi-layer simulation approach for evaluation of data service support in ATM networks. , 0, , .		2

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127	Effect of the handoff area sojourn time distribution on the performance of cellular networks. , 0, , .		8
128	Optimality and sensitivity study of admission control policies for multimedia wireless networks. , 0, , .		2
129	Adaptive admission control scheme for multiservice mobile cellular networks. , 0, , .		5