

Riccardo De Gaudenzi

List of Publications by Year in descending order

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63
papers

2,512
citations

304743

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254184

43
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63
all docs

63
docs citations

63
times ranked

1207
citing authors

#	ARTICLE	IF	CITATIONS
1	The Open Challenge of Integrating Satellites into (Beyond-) 5G Cellular Networks. IEEE Network, 2022, 36, 168-174.	6.9	16
2	Editorial: Special Issue "Satellite Networks for Massive IoT Communication". Sensors, 2022, 22, 4214.	3.8	0
3	Is Satellite Ahead of Terrestrial in Deploying NOMA for Massive Machine-Type Communications?. Sensors, 2021, 21, 4290.	3.8	4
4	Heuristic Radio Resource Management for Massive MIMO in Satellite Broadband Communication Networks. IEEE Access, 2021, 9, 147164-147190.	4.2	12
5	Future technologies for very high throughput satellite systems. International Journal of Satellite Communications and Networking, 2020, 38, 141-161.	1.8	40
6	Phase noise impact on the performance of contention resolution slotted random access schemes. International Journal of Satellite Communications and Networking, 2020, 38, 116-140.	1.8	3
7	Towards the implementation of advanced random access schemes for satellite IoT. International Journal of Satellite Communications and Networking, 2020, 38, 177-199.	1.8	8
8	A Pragmatic Approach to Massive MIMO for Broadband Communication Satellites. IEEE Access, 2020, 8, 132212-132236.	4.2	44
9	Random Access Versus Multiple Access. , 2019, , 535-584.		4
10	On the Modeling and Performance Assessment of Random Access With SIC. IEEE Journal on Selected Areas in Communications, 2018, 36, 292-303.	14.0	36
11	Random access schemes for satellite networks, from VSAT to M2M: a survey. International Journal of Satellite Communications and Networking, 2018, 36, 66-107.	1.8	55
12	Exploiting code division multiplexing with decentralized multiuser detection in the satellite multibeam forward link. International Journal of Satellite Communications and Networking, 2018, 36, 239-276.	1.8	13
13	On the Satellite Role in the Era of 5G Massive Machine Type Communications. IEEE Network, 2018, 32, 54-61.	6.9	71
14	Enhancing the Physical Layer of Contention Resolution Diversity Slotted ALOHA. IEEE Transactions on Communications, 2017, , 1-1.	7.8	46
15	Superframing: a powerful physical layer frame structure for next generation satellite broadband systems. International Journal of Satellite Communications and Networking, 2016, 34, 413-438.	1.8	12
16	MIMO for Mobile Satellite Digital Broadcasting: From Theory to Practice. IEEE Transactions on Vehicular Technology, 2016, 65, 4839-4853.	6.3	17
17	MIMO over satellite. , 2015, , 245-274.		1
18	High-performance random access schemes. , 2015, , 35-82.		0

#	ARTICLE	IF	CITATIONS
19	Implementation of DVB-S2X Super-Frame Format 4 for Wideband Transmission. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 373-387.	0.3	3
20	On the Optimum Packet Power Distribution for Spread Aloha Packet Detectors With Iterative Successive Interference Cancellation. IEEE Transactions on Wireless Communications, 2014, 13, 6783-6794.	9.2	30
21	Generalized Analytical Framework for the Performance Assessment of Slotted Random Access Protocols. IEEE Transactions on Wireless Communications, 2014, 13, 809-821.	9.2	52
22	Guest Editorial: IJSCN Special Issue on ASMS/SPSC 2012. International Journal of Satellite Communications and Networking, 2014, 32, 163-166.	1.8	0
23	Asynchronous Contention Resolution Diversity ALOHA: Making CRDSA Truly Asynchronous. IEEE Transactions on Wireless Communications, 2014, 13, 6193-6206.	9.2	74
24	Enhanced spread spectrum ALOHA system level performance assessment. International Journal of Satellite Communications and Networking, 2014, 32, 485-503.	1.8	4
25	Enhanced spread Aloha physical layer design and performance. International Journal of Satellite Communications and Networking, 2014, 32, 457-473.	1.8	18
26	S-MIM: a novel radio interface for efficient messaging services over satellite. , 2013, 51, 119-125.		30
27	Space communications and Internet. China Communications, 2013, 10, ix-x.	3.2	1
28	Technological challenges of future broadband telecommunication satellites in Q/V-band. , 2012, , .		1
29	High Efficiency Satellite Multiple Access Scheme for Machine-to-Machine Communications. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 2961-2989.	4.7	103
30	Exploitation of Q/V-band for future broadband telecommunication satellites. , 2012, , .		16
31	S-MIM: A novel radio interface for efficient messaging services over satellite. , 2012, , .		4
32	Practical MIMO aspects in dual polarization per beam mobile satellite broadcasting. International Journal of Satellite Communications and Networking, 2012, 30, 76-87.	1.8	6
33	MIMO over Satellite: A Review. IEEE Communications Surveys and Tutorials, 2011, 13, 27-51.	39.4	263
34	To MIMO or Not To MIMO in Mobile Satellite Broadcasting Systems. IEEE Transactions on Wireless Communications, 2011, 10, 2807-2811.	9.2	56
35	DVB-S2 Satellite Experiment Results. , 2011, , .		2
36	Performance Validation of the DVB-SH Standard for Satellite/Terrestrial Hybrid Mobile Broadcasting Networks. IEEE Transactions on Broadcasting, 2011, 57, 802-825.	3.2	16

#	ARTICLE	IF	CITATIONS
37	Physical Layer Enhancements Beyond DVB-S2. , 2011, , .		1
38	Deployment Scenario for Scalable Video Broadcasting over Satellite. , 2011, , .		1
39	Adaptive coding and modulation for satellite broadband networks: From theory to practice. International Journal of Satellite Communications and Networking, 2010, 28, 59-111.	1.8	41
40	13.5: R&D challenges for broadband satcoms in 2020. , 2010, , .		4
41	Recent advances in satellite and space communications. Journal of Communications and Networks, 2010, 12, 523-528.	2.6	3
42	In-depth analysis of the satellite component of DVB-SH: Scenarios, system dimensioning, simulations and field trial results. International Journal of Satellite Communications and Networking, 2009, 27, 215-240.	1.8	17
43	Advances in Random Access protocols for satellite networks. , 2009, , .		68
44	Channel estimation and physical layer adaptation techniques for satellite networks exploiting adaptive coding and modulation. International Journal of Satellite Communications and Networking, 2008, 26, 157-188.	1.8	59
45	An Advanced Satellite UMTS Testbed for Laboratory and Over-the-Air Experiments of Third-Generation Mobile Services"Part II: Experimental Results. IEEE Transactions on Vehicular Technology, 2008, 57, 798-809.	6.3	2
46	From "Bent Pipes" to "Software Defined Payloads": Evolution and Trends of Satellite Communications Systems. , 2008, , .		31
47	A high efficiency scheme for quasi-real-time satellite mobile messaging systems. , 2008, , .		13
48	Contention Resolution Diversity Slotted ALOHA (CRDSA): An Enhanced Random Access Scheme for Satellite Access Packet Networks. IEEE Transactions on Wireless Communications, 2007, 6, 1408-1419.	9.2	508
49	Adaptive Coding and Modulation for the DVB-S2 Standard Interactive Applications: Capacity Assessment and Key System Issues. IEEE Wireless Communications, 2007, 14, 61-69.	9.0	36
50	Performance analysis of turbo-coded APSK modulations over nonlinear satellite channels. IEEE Transactions on Wireless Communications, 2006, 5, 2396-2407.	9.2	149
51	Turbo-coded APSK modulations design for satellite broadband communications. International Journal of Satellite Communications and Networking, 2006, 24, 261-281.	1.8	54
52	Capacity analysis and system optimization for the forward link of multi-beam satellite broadband systems exploiting adaptive coding and modulation. International Journal of Satellite Communications and Networking, 2004, 22, 401-423.	1.8	58
53	Capacity analysis and system optimization for the reverse link of multi-beam satellite broadband systems exploiting adaptive coding and modulation. International Journal of Satellite Communications and Networking, 2004, 22, 425-448.	1.8	16
54	Design, implementation and verification through a real-time test-bed of a multi-rate CDMA adaptive interference mitigation receiver for satellite communication. International Journal of Satellite Communications and Networking, 2003, 21, 39-64.	1.8	0

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55	Adaptive Coding and Modulation for Next Generation Broadband Multimedia Systems. , 2002, , .		14
56	Wide-band CDMA for the UMTS/IMT-2000 satellite component. IEEE Transactions on Vehicular Technology, 2002, 51, 306-331.	6.3	51
57	On signal structures for GNSS-2. International Journal of Satellite Communications and Networking, 2000, 18, 271-291.	0.6	5
58	Signal synchronization for direct-sequence code-division multiple access radio modems. European Transactions on Telecommunications, 1998, 9, 73-89.	1.2	22
59	The influence of signal quantization on the performance of digital receivers for CDMA radio networks. European Transactions on Telecommunications, 1997, 8, 89-97.	1.2	9
60	How Can Interference-Rejection Receivers Increase the Capacity of CDMA Multi-Beam Satellite Communication Systems ?. , 1996, , 349-365.		0
61	Analysis of a DS-CDMA Return Link for Mobile Satellite Communications. , 1996, , 385-415.		0
62	A digital chip timing recovery loop for band-limited direct-sequence spread-spectrum signals. IEEE Transactions on Communications, 1993, 41, 1760-1769.	7.8	71
63	Bandlimited quasi-synchronous CDMA: a novel satellite access technique for mobile and personal communication systems. IEEE Journal on Selected Areas in Communications, 1992, 10, 328-343.	14.0	218