Riccardo De Gaudenzi

List of Publications by Year
in descending order

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63	2,512	304743	254184
papers	citations	22 h-index	43 g-index

63	63	63	1207
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Contention Resolution Diversity Slotted ALOHA (CRDSA): An Enhanced Random Access Schemefor Satellite Access Packet Networks. IEEE Transactions on Wireless Communications, 2007, 6, 1408-1419.	9.2	508
2	MIMO over Satellite: A Review. IEEE Communications Surveys and Tutorials, 2011, 13, 27-51.	39.4	263
3	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
4	Performance analysis of turbo-coded APSK modulations over nonlinear satellite channels. IEEE Transactions on Wireless Communications, 2006, 5, 2396-2407.	9.2	149
5	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
6	Asynchronous Contention Resolution Diversity ALOHA: Making CRDSA Truly Asynchronous. IEEE Transactions on Wireless Communications, 2014, 13, 6193-6206.	9.2	74
7	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
8	On the Satellite Role in the Era of 5G Massive Machine Type Communications. IEEE Network, 2018, 32, 54-61.	6.9	71
9	Advances in Random Access protocols for satellite networks. , 2009, , .		68
10	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
11	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
12	To MIMO or Not To MIMO in Mobile Satellite Broadcasting Systems. IEEE Transactions on Wireless Communications, 2011, 10, 2807-2811.	9.2	56
13	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
14	Turbo-coded APSK modulations design for satellite broadband communications. International Journal of Satellite Communications and Networking, 2006, 24, 261-281.	1.8	54
15	Generalized Analytical Framework for the Performance Assessment of Slotted Random Access Protocols. IEEE Transactions on Wireless Communications, 2014, 13, 809-821.	9.2	52
16	Wide-band CDMA for the UMTS/IMT-2000 satellite component. IEEE Transactions on Vehicular Technology, 2002, 51, 306-331.	6.3	51
17	Enhancing the Physical Layer of Contention Resolution Diversity Slotted ALOHA. IEEE Transactions on Communications, 2017, , 1-1.	7.8	46
18	A Pragmatic Approach to Massive MIMO for Broadband Communication Satellites. IEEE Access, 2020, 8, 132212-132236.	4.2	44

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19	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
20	Future technologies for very high throughput satellite systems. International Journal of Satellite Communications and Networking, 2020, 38, 141-161.	1.8	40
21	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
22	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
23	From "Bent Pipes" to "Software Defined Payloads": Evolution and Trends of Satellite Communications Systems. , 2008, , .		31
24	S-MIM: a novel radio interface for efficient messaging services over satellite. , 2013, 51, 119-125.		30
25	On the Optimum Packet Power Distribution for Spread Aloha Packet Detectors With Iterative Successive Interference Cancelation. IEEE Transactions on Wireless Communications, 2014, 13, 6783-6794.	9.2	30
26	Signal synchronization for directâ€sequence codeâ€division multiple access radio modems. European Transactions on Telecommunications, 1998, 9, 73-89.	1.2	22
27	Enhanced spread Aloha physical layer design and performance. International Journal of Satellite Communications and Networking, 2014, 32, 457-473.	1.8	18
28	Inâ€depth analysis of the satellite component of DVBâ€SH: Scenarios, system dimensioning, simulations and field trial results. International Journal of Satellite Communications and Networking, 2009, 27, 215-240.	1.8	17
29	MIMO for Mobile Satellite Digital Broadcasting: From Theory to Practice. IEEE Transactions on Vehicular Technology, 2016, 65, 4839-4853.	6.3	17
30	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
31	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
32	Exploitation of Q/V-band for future broadband telecommunication satellites. , 2012, , .		16
33	The Open Challenge of Integrating Satellites into (Beyond-) 5G Cellular Networks. IEEE Network, 2022, 36, 168-174.	6.9	16
34	Adaptive Coding and Modulation for Next Generation Broadband Multimedia Systems. , 2002, , .		14
35	A high efficiency scheme for quasi-real-time satellite mobile messaging systems. , 2008, , .		13
36	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

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37	Superâ€framing: 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
38	Heuristic Radio Resource Management for Massive MIMO in Satellite Broadband Communication Networks. IEEE Access, 2021, 9, 147164-147190.	4.2	12
39	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
40	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
41	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
42	On signal structures for GNSS-2. International Journal of Satellite Communications and Networking, 2000, 18, 271-291.	0.6	5
43	13.5: R&D challenges for broadband satcoms in 2020. , 2010, , .		4
44	S-MIM: A novel radio interface for efficient messaging services over satellite. , 2012, , .		4
45	Enhanced spread spectrum ALOHA system level performance assessment. International Journal of Satellite Communications and Networking, 2014, 32, 485-503.	1.8	4
46	Random Access Versus Multiple Access. , 2019, , 535-584.		4
47	Is Satellite Ahead of Terrestrial in Deploying NOMA for Massive Machine-Type Communications?. Sensors, 2021, 21, 4290.	3.8	4
48	Recent advances in satellite and space communications. Journal of Communications and Networks, 2010, 12, 523-528.	2.6	3
49	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
50	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
51	An Advanced Satellite UMTS Testbed for Laboratory and Over-the-Air Experiments of Third-Generation Mobile Servicesâ€"Part II: Experimental Results. IEEE Transactions on Vehicular Technology, 2008, 57, 798-809.	6.3	2
52	DVB-S2 Satellite Experiment Results. , 2011, , .		2
53	Physical Layer Enhancements Beyond DVB-S2. , 2011, , .		1
54	Technological challenges of future broadband telecommunication satellites in Q/V-band. , 2012, , .		1

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55	Space communications and Internet. China Communications, 2013, 10, ix-x.	3.2	1
56	MIMO over satellite. , 2015, , 245-274.		1
57	Deployment Scenario for Scalable Video Broadcasting over Satellite. , 2011, , .		1
58	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
59	Guest Editorial: IJSCN Special Issue on ASMS/SPSC 2012. International Journal of Satellite Communications and Networking, 2014, 32, 163-166.	1.8	0
60	High-performance random access schemes. , 2015, , 35-82.		0
61	How Can Interference-Rejection Receivers Increase the Capacity of CDMA Multi-Beam Satellite Communication Systems ?. , 1996, , 349-365.		0
62	Analysis of a DS-CDMA Return Link for Mobile Satellite Communications. , 1996, , 385-415.		0
63	Editorial: Special Issue â€œSatellite Networks for Massive IoT Communicationâ€• Sensors, 2022, 22, 4214.	3.8	0