Nicola Laurenti

List of Publications by Year
in descending order

72 papers	1,024 citations	687363 13 h-index	477307 29 g-index
78 all docs	78 docs citations	78 times ranked	873 citing authors

#	Article	IF	Citations
1	On Trading the Spreading Gain With the Coding Rate and Its Application to GNSS Data Component Design. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2526-2539.	4.7	0
2	Generalized Likelihood Ratio Test for GNSS Spoofing Detection in Devices With IMU. IEEE Transactions on Information Forensics and Security, 2021, 16, 3496-3509.	6.9	23
3	A Game-Theoretic Analysis of Energy-Depleting Jamming Attacks with a Learning Counterstrategy. ACM Transactions on Sensor Networks, 2020, 16, 1-25.	3.6	6
4	Sub-Messages Scheduling in GNSS Packet Broadcasting By Message Splitting. , 2020, , .		2
5	Optimal Compromise among Security, Availability and Resources in the Design of Sequences for GNSS Spreading Code Authentication. , 2020, , .		5
6	Jamming the Underwater. , 2019, , .		4
7	Authentication of Galileo GNSS Signal by Superimposed Signature with Artificial Noise. , 2018, , .		3
8	On the Use of CSK for GNSS Anti-Spoofing. , 2018, , .		1
9	Analysis of the Chimera Time-Binding Scheme for Authenticating GPS L1C. , 2018, , .		5
10	Impact analysis of SBAS authentication. Navigation, Journal of the Institute of Navigation, 2018, 65, 517-532.	2.8	6
11	Exploiting side-information for resilient GNSS positioning in mobile phones. , 2018, , .		10
12	A game-theoretic analysis of energy-depleting jamming attacks. , 2017, , .		7
13	A key management architecture for GNSS open service Navigation Message Authentication. , 2017, , .		10
14	Resource Allocation for Downlink of 5G Systems with OFDMA under Secrecy Outage Constraints. , 2016, , .		3
15	Achievable Secrecy Rates of an Energy Harvesting Device. IEEE Journal on Selected Areas in Communications, 2016, 34, 1502-1517.	14.0	5
16	Power Allocation in Multiuser Parallel Gaussian Broadcast Channels With Common and Confidential Messages. IEEE Transactions on Communications, 2016, 64, 2326-2339.	7.8	8
17	Energy-based anchor node selection for IoT physical layer authentication. , 2016, , .		16
18	Evaluating the security of one-way key chains in TESLA-based GNSS Navigation Message Authentication schemes. , 2016, , .		19

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19	Free-space optical channel estimation for physical layer security. Optics Express, 2016, 24, 8940.	3.4	43
20	SimpleMAC: A Simple Wireless MAC-Layer Countermeasure to Intelligent and Insider Jammers. IEEE/ACM Transactions on Networking, 2016, 24, 1095-1108.	3.8	6
21	Achievable Secrecy Rates of an Energy Harvesting Device with a Finite Battery. , 2015, , .		1
22	Adaptive real time selection for quantum key distribution in lossy and turbulent free-space channels. Physical Review A, 2015, 91, .	2.5	58
23	On the Error Region for Channel Estimation-Based Physical Layer Authentication Over Rayleigh Fading. IEEE Transactions on Information Forensics and Security, 2015, 10, 941-952.	6.9	29
24	Parallel BCC with one common and two confidential messages and imperfect CSIT. , 2014, , .		2
25	Exploiting Strong Turbulence in Quantum Communications. , 2014, , .		0
26	Secret message transmission by HARQ with multiple encoding. , 2014, , .		5
27	LQG-like control of scalar systems over communication channels: The role of data losses, delays and SNR limitations. Automatica, 2014, 50, 3155-3163.	5.0	9
28	Achievable secrecy rates over MIMOME Gaussian channels with GMM signals in low-noise regime. , 2014, , .		2
29	Secure HARQ With Multiple Encoding Over Block Fading Channels: Channel Set Characterization and Outage Analysis. IEEE Transactions on Information Forensics and Security, 2014, 9, 1708-1719.	6.9	12
30	Secrecy Transmission on Parallel Channels: Theoretical Limits and Performance of Practical Codes. IEEE Transactions on Information Forensics and Security, 2014, 9, 1765-1779.	6.9	33
31	Adaptive discrimination scheme for quantum pulse-position-modulation signals. Physical Review A, 2014, 89, .	2.5	7
32	Secret Key Agreement by LLR Thresholding and Syndrome Feedback over AWGN Channel. IEEE Communications Letters, 2014, 18, 26-29.	4.1	9
33	Achievable Secrecy Rates of an Energy Harvesting Device with a Finite Battery. , 2014, , .		0
34	Experimental quantum key distribution with finite-key security analysis for noisy channels. Nature Communications, 2013, 4, 2363.	12.8	44
35	Design optimization for quantum communications in a GNSS intersatellite network. , 2013, , .		4
36	Semi-Blind Key-Agreement over MIMO Fading Channels. IEEE Transactions on Communications, 2013, 61, 620-627.	7.8	26

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37	Low-power secret-key agreement over OFDM. , 2013, , .		7
38	SimpleMAC. , 2012, , .		21
39	Physical Layer Authentication over MIMO Fading Wiretap Channels. IEEE Transactions on Wireless Communications, 2012, 11, 2564-2573.	9.2	91
40	Physical-Layer Secrecy for OFDM Transmissions Over Fading Channels. IEEE Transactions on Information Forensics and Security, 2012, 7, 1354-1367.	6.9	87
41	The jamming Game in an OFDM setting. , 2012, , .		2
42	Achievable secrecy rates for wiretap OFDM with QAM constellations. , 2012, , .		2
43	Optimal Binary Codes and Measurements for Classical Communication over Qubit Channels. , 2012, , .		0
44	Physical Layer Authentication over an OFDM Fading Wiretap Channel. , 2012, , .		2
45	A prototype of a free-space QKD scheme based on the B92 protocol. , 2011, , .		2
46	New Results on the Spectral Analysis of Multi-h CPM Signals. IEEE Transactions on Communications, 2011, 59, 1893-1903.	7.8	8
47	Semi-Blind Key-Agreement over MIMO Fading Channels. , 2011, , .		2
48	Low-cost mitigation of privacy loss due to radiometric identification. , 2011, , .		0
49	An Analysis of GLRT Packet Detection for WiMedia UWB Applications. IEEE Transactions on Vehicular Technology, 2010, 59, 1229-1241.	6.3	6
50	Physical layer secrecy for OFDM systems. , 2010, , .		13
51	High SNR secrecy rates with OFDM signaling over fading channels. , 2010, , .		9
52	Reconfigurable Multi-Band OFDM UWB Receivers: Circuits and System Considerations. Integrated Circuits and Systems, 2009, , 27-52.	0.2	1
53	Time synchronization for OFDM systems in very dispersive channels. , 2009, , .		0
54	Estimating angle-dependent systematic error and measurement uncertainty for a conoscopic holography measurement system. Proceedings of SPIE, 2009, , .	0.8	4

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55	A Reconfigurable Narrow-Band MB-OFDM UWB Receiver Architecture. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 324-328.	3.0	10
56	Estimation of carrier and sampling frequency offset for Ultra Wide Band multiband OFDM systems. , 2008, , .		3
57	A Nonlinear Method for Stochastic Spectrum Estimation in the Modeling of Musical Sounds. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 531-541.	3.2	9
58	A Packet Detection Algorithm for the UWB Standard ECMA 368. Signals and Communication Technology, 2007, , 51-64.	0.5	1
59	Design and performance evaluation of a full-duplex operating receiver for time-hopping UWB. Mobile Networks and Applications, 2006, 11, 429-439.	3.3	6
60	A Multicarrier Architecture Based Upon the Affine Fourier Transform. IEEE Transactions on Communications, 2005, 53, 853-862.	7.8	54
61	A lattice estimation approach for the automatic evaluation of corneal endothelium density. , 2005, 2005, 1700-3.		6
62	Time and Frequency Synchronization for Hiperlan/2. Lecture Notes in Computer Science, 2002, , 491-502.	1.3	0
63	Efficient implementations and alternative architectures for OFDM-OQAM systems. IEEE Transactions on Communications, 2001, 49, 664-675.	7.8	51
64	Multiplicity of fractional Fourier transforms and their relationships. IEEE Transactions on Signal Processing, 2000, 48, 227-241.	5.3	72
65	Comments on â€œOrthogonal multiple carrier data transmissionâ€. European Transactions on Telecommunications, 1998, 9, 571-572.	1.2	1
66	A unified framework for the fractional Fourier transform. IEEE Transactions on Signal Processing, 1998, 46, 3206-3219.	5.3	79
67	Filter design for the conjugate OFDM-OQAM system. , 0, , .		4
68	Time hopping UWB: receiver design and performance of a full-duplex system. , 0, , .		1
69	A Novel Navigation Message Authentication Scheme for GNSS Open Service. , 0, , .		15
70	Authentication Concepts for Satellite-Based Augmentation Systems. , 0, , .		5
71	SBAS Authentication Proposals and Performance Assessment. , 0, , .		5
72	Feasibility and Limitations of Self-Spoofing Attacks on GNSS Signals with Message Authentication. , 0, , .		10