

Nicola Laurenti

List of Publications by Year in descending order

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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	Physical Layer Authentication over MIMO Fading Wiretap Channels. IEEE Transactions on Wireless Communications, 2012, 11, 2564-2573.	9.2	91
2	Physical-Layer Secrecy for OFDM Transmissions Over Fading Channels. IEEE Transactions on Information Forensics and Security, 2012, 7, 1354-1367.	6.9	87
3	A unified framework for the fractional Fourier transform. IEEE Transactions on Signal Processing, 1998, 46, 3206-3219.	5.3	79
4	Multiplicity of fractional Fourier transforms and their relationships. IEEE Transactions on Signal Processing, 2000, 48, 227-241.	5.3	72
5	Adaptive real time selection for quantum key distribution in lossy and turbulent free-space channels. Physical Review A, 2015, 91, .	2.5	58
6	A Multicarrier Architecture Based Upon the Affine Fourier Transform. IEEE Transactions on Communications, 2005, 53, 853-862.	7.8	54
7	Efficient implementations and alternative architectures for OFDM-OQAM systems. IEEE Transactions on Communications, 2001, 49, 664-675.	7.8	51
8	Experimental quantum key distribution with finite-key security analysis for noisy channels. Nature Communications, 2013, 4, 2363.	12.8	44
9	Free-space optical channel estimation for physical layer security. Optics Express, 2016, 24, 8940.	3.4	43
10	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
11	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
12	Semi-Blind Key-Agreement over MIMO Fading Channels. IEEE Transactions on Communications, 2013, 61, 620-627.	7.8	26
13	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
14	SimpleMAC. , 2012, , .		21
15	Evaluating the security of one-way key chains in TESLA-based GNSS Navigation Message Authentication schemes. , 2016, , .		19
16	Energy-based anchor node selection for IoT physical layer authentication. , 2016, , .		16
17	A Novel Navigation Message Authentication Scheme for GNSS Open Service. , 0, , .		15
18	Physical layer secrecy for OFDM systems. , 2010, , .		13

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	A key management architecture for GNSS open service Navigation Message Authentication. , 2017, , .		10
22	Exploiting side-information for resilient GNSS positioning in mobile phones. , 2018, , .		10
23	Feasibility and Limitations of Self-Spoofing Attacks on GNSS Signals with Message Authentication. , 0, , .		10
24	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
25	High SNR secrecy rates with OFDM signaling over fading channels. , 2010, , .		9
26	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
27	Secret Key Agreement by LLR Thresholding and Syndrome Feedback over AWGN Channel. IEEE Communications Letters, 2014, 18, 26-29.	4.1	9
28	New Results on the Spectral Analysis of Multi-h CPM Signals. IEEE Transactions on Communications, 2011, 59, 1893-1903.	7.8	8
29	Power Allocation in Multiuser Parallel Gaussian Broadcast Channels With Common and Confidential Messages. IEEE Transactions on Communications, 2016, 64, 2326-2339.	7.8	8
30	Low-power secret-key agreement over OFDM. , 2013, , .		7
31	Adaptive discrimination scheme for quantum pulse-position-modulation signals. Physical Review A, 2014, 89, .	2.5	7
32	A game-theoretic analysis of energy-depleting jamming attacks. , 2017, , .		7
33	A lattice estimation approach for the automatic evaluation of corneal endothelium density. , 2005, 2005, 1700-3.		6
34	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
35	An Analysis of GLRT Packet Detection for WiMedia UWB Applications. IEEE Transactions on Vehicular Technology, 2010, 59, 1229-1241.	6.3	6
36	SimpleMAC: A Simple Wireless MAC-Layer Countermeasure to Intelligent and Insider Jammers. IEEE/ACM Transactions on Networking, 2016, 24, 1095-1108.	3.8	6

#	ARTICLE	IF	CITATIONS
37	Impact analysis of SBAS authentication. Navigation, Journal of the Institute of Navigation, 2018, 65, 517-532.	2.8	6
38	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
39	Secret message transmission by HARQ with multiple encoding. , 2014, , .		5
40	Achievable Secrecy Rates of an Energy Harvesting Device. IEEE Journal on Selected Areas in Communications, 2016, 34, 1502-1517.	14.0	5
41	Analysis of the Chimera Time-Binding Scheme for Authenticating GPS L1C. , 2018, , .		5
42	Optimal Compromise among Security, Availability and Resources in the Design of Sequences for GNSS Spreading Code Authentication. , 2020, , .		5
43	Authentication Concepts for Satellite-Based Augmentation Systems. , 0, , .		5
44	SBAS Authentication Proposals and Performance Assessment. , 0, , .		5
45	Filter design for the conjugate OFDM-OQAM system. , 0, , .		4
46	Estimating angle-dependent systematic error and measurement uncertainty for a conoscopic holography measurement system. Proceedings of SPIE, 2009, , .	0.8	4
47	Design optimization for quantum communications in a GNSS intersatellite network. , 2013, , .		4
48	Jamming the Underwater. , 2019, , .		4
49	Estimation of carrier and sampling frequency offset for Ultra Wide Band multiband OFDM systems. , 2008, , .		3
50	Resource Allocation for Downlink of 5G Systems with OFDMA under Secrecy Outage Constraints. , 2016, , .		3
51	Authentication of Galileo GNSS Signal by Superimposed Signature with Artificial Noise. , 2018, , .		3
52	A prototype of a free-space QKD scheme based on the B92 protocol. , 2011, , .		2
53	Semi-Blind Key-Agreement over MIMO Fading Channels. , 2011, , .		2
54	Parallel BCC with one common and two confidential messages and imperfect CSIT. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
55	Achievable secrecy rates over MIMOME Gaussian channels with GMM signals in low-noise regime. , 2014, , .		2
56	Sub-Messages Scheduling in GNSS Packet Broadcasting By Message Splitting. , 2020, , .		2
57	The jamming Game in an OFDM setting. , 2012, , .		2
58	Achievable secrecy rates for wiretap OFDM with QAM constellations. , 2012, , .		2
59	Physical Layer Authentication over an OFDM Fading Wiretap Channel. , 2012, , .		2
60	Comments on "Orthogonal multiple carrier data transmission" European Transactions on Telecommunications, 1998, 9, 571-572.	1.2	1
61	Time hopping UWB: receiver design and performance of a full-duplex system. , 0, , .		1
62	Reconfigurable Multi-Band OFDM UWB Receivers: Circuits and System Considerations. Integrated Circuits and Systems, 2009, , 27-52.	0.2	1
63	Achievable Secrecy Rates of an Energy Harvesting Device with a Finite Battery. , 2015, , .		1
64	On the Use of CSK for GNSS Anti-Spoofing. , 2018, , .		1
65	A Packet Detection Algorithm for the UWB Standard ECMA 368. Signals and Communication Technology, 2007, , 51-64.	0.5	1
66	Time synchronization for OFDM systems in very dispersive channels. , 2009, , .		0
67	Low-cost mitigation of privacy loss due to radiometric identification. , 2011, , .		0
68	Exploiting Strong Turbulence in Quantum Communications. , 2014, , .		0
69	Achievable Secrecy Rates of an Energy Harvesting Device with a Finite Battery. , 2014, , .		0
70	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
71	Time and Frequency Synchronization for Hiperlan/2. Lecture Notes in Computer Science, 2002, , 491-502.	1.3	0
72	Optimal Binary Codes and Measurements for Classical Communication over Qubit Channels. , 2012, , .		0