SÃ¡ndor D Imre

List of Publications by Year
in descending order

169 papers	2,343 citations	331642 21 h-index	265191 42 g-index
177 all docs	177 docs citations	177 times ranked	1363 citing authors

#	Article	IF	Citations
1	Wireless Myths, Realities, and Futures: From 3G/4G to Optical and Quantum Wireless. Proceedings of the IEEE, 2012, 100, 1853-1888.	21.3	315
2	A Survey on quantum computing technology. Computer Science Review, 2019, 31, 51-71.	15.3	287
3	A Survey on Quantum Channel Capacities. IEEE Communications Surveys and Tutorials, 2018, 20, 1149-1205.	39.4	194
4	A survey of handover management in LTE-based multi-tier femtocell networks: Requirements, challenges and solutions. Computer Networks, 2015, 76, 17-41.	5.1	102
5	User Tracking on the Web via Cross-Browser Fingerprinting. Lecture Notes in Computer Science, 2012, , 31-46.	1.3	80
6	Decentralized base-graph routing for the quantum internet. Physical Review A, 2018, 98, .	2.5	63
7	Entanglement-Gradient Routing for Quantum Networks. Scientific Reports, 2017, 7, 14255.	3.3	50
8	Opportunistic Entanglement Distribution for the Quantum Internet. Scientific Reports, 2019, 9, 2219.	3.3	45
9	Quantum communications: explained for communication engineers. , 2013, 51, 28-35.		38
10	Entanglement Availability Differentiation Service for the Quantum Internet. Scientific Reports, 2018, 8, 10620.	3.3	33
11	Entanglement access control for the quantum Internet. Quantum Information Processing, 2019, 18, 1.	2.2	33
12	Dense Quantum Measurement Theory. Scientific Reports, 2019, 9, 6755.	3.3	31
13	Multilayer Optimization for the Quantum Internet. Scientific Reports, 2018, 8, 12690.	3.3	30
14	Optimizing High-Efficiency Quantum Memory with Quantum Machine Learning for Near-Term Quantum Devices. Scientific Reports, 2020, 10, 135.	3.3	30
15	Training Optimization for Gate-Model Quantum Neural Networks. Scientific Reports, 2019, 9, 12679.	3.3	28
16	Entanglement accessibility measures for the quantum Internet. Quantum Information Processing, 2020, 19, 1.	2.2	28
17	A Survey on Quantum Key Distribution. Infocommunications Journal, 2019, , 14-21.	0.8	28
18	Circuit Depth Reduction for Gate-Model Quantum Computers. Scientific Reports, 2020, 10, 11229.	3.3	27

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19	A survey of multiuser/multisubchannel detection schemes based on recurrent neural networks. Wireless Communications and Mobile Computing, 2002, 2, 269-284.	1.2	24
20	Elliptic curve cryptography based mutual authentication protocol for low computational capacity RFID systems - performance analysis by simulations. , 2010, , .		23
21	Quantum circuit design for objective function maximization in gate-model quantum computers. Quantum Information Processing, 2019, 18, 1.	2.2	23
22	Scalable distributed gate-model quantum computers. Scientific Reports, 2021, 11, 5172.	3.3	22
23	Topology adaption for the quantum Internet. Quantum Information Processing, 2018, 17, 1.	2.2	21
24	Low-Dimensional Reconciliation for Continuous-Variable Quantum Key Distribution. Applied Sciences (Switzerland), 2018, 8, 87.	2.5	21
25	Non-coherent multi-user detection based on quantum search. , 0, , .		19
26	Geometrical analysis of physically allowed quantum cloning transformations for quantum cryptography. Information Sciences, 2014, 285, 1-23.	6.9	19
27	Adaptive routing for quantum memory failures in the quantum Internet. Quantum Information Processing, 2019, 18, 1.	2.2	18
28	Quantum Existence Testing and Its Application for Finding Extreme Values in Unsorted Databases. IEEE Transactions on Computers, 2007, 56, 706-710.	3.4	17
29	Multiple access multicarrier continuous-variable quantum key distribution. Chaos, Solitons and Fractals, 2018, 114, 491-505.	5.1	17
30	Adaptive multicarrier quadrature division modulation for long-distance continuous-variable quantum key distribution. Proceedings of SPIE, 2014, , .	0.8	16
31	Long-distance continuous-variable quantum key distribution with advanced reconciliation of a Gaussian modulation. Proceedings of SPIE, 2014, , .	0.8	15
32	Dynamic topology resilience for quantum networks. , 2018, , .		15
33	Modeling and Analysis of Broadband Cellular Networks with Multimedia Connections. Telecommunication Systems, 2002, 19, 263-288.	2.5	14
34	Quantum computing and communications â€" Introduction and challenges. Computers and Electrical Engineering, 2014, 40, 134-141.	4.8	14
35	Singular layer transmission for continuous-variable quantum key distribution. , 2014, , .		14
36	Routing space exploration for scalable routing in the quantum Internet. Scientific Reports, 2020, 10, 11874.	3.3	14

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37	A HIP Based Network Mobility Protocol. , 2007, , .		13
38	Accurate Mobility Modeling and Location Prediction Based on Pattern Analysis of Handover Series in Mobile Networks. Mobile Information Systems, 2009, 5, 255-289.	0.6	13
39	Theory of Noise-Scaled Stability Bounds and Entanglement Rate Maximization in the Quantum Internet. Scientific Reports, 2020, 10, 2745.	3.3	13
40	State stabilization for gate-model quantum computers. Quantum Information Processing, 2019, 18, 1.	2.2	12
41	Perceived quality of angular resolution for light field displays and the validy of subjective assessment. , 2016, , .		11
42	Mutual Authentication Protocol for Low Computational Capacity RFID Systems. , 2008, , .		10
43	An Efficient and Robust Social Network De-anonymization Attack. , 2016, , .		10
44	Secret key rate proof of multicarrier continuousâ€variable quantum key distribution. International Journal of Communication Systems, 2019, 32, e3865.	2.5	10
45	Source controlled semi-reliable multimedia streaming using selective retransmission in DCCP/IP networks. Computer Communications, 2008, 31, 2676-2684.	5.1	9
46	Theory of quantum gravity information processing. Quantum Engineering, 2019, 1, e23.	2.5	9
47	Entanglement concentration service for the quantum Internet. Quantum Information Processing, 2020, 19, 1.	2.2	9
48	Information Geometrical Analysis of Additivity of Optical Quantum Channels. Journal of Optical Communications and Networking, 2011, 3, 48.	4.8	8
49	Algorithmic superactivation of asymptotic quantum capacity of zero-capacity quantum channels. Information Sciences, 2013, 222, 737-753.	6.9	8
50	Measuring importance of seeding for structural de-anonymization attacks in social networks. , 2014, , .		8
51	EXTREME VALUE SEARCHING IN UNSORTED DATABASES BASED ON QUANTUM COMPUTING. International Journal of Quantum Information, 2005, 03, 171-176.	1.1	7
52	Distortions in QoE Measurements of Ubiquitous Mobile Video Services Caused by the Preconceptions of Test Subjects. , 2012, , .		7
53	Distortions in QoE assessment of 3D multimedia services on multi-access mobile devices. , 2013, , .		7
54	Entanglement Concentration Service for the Quantum Internet. , 2018, , .		7

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55	Analysis of Grasshopper, a Novel Social Network De-anonymization Algorithm. Periodica Polytechnica Electrical Engineering and Computer Science, 2014, 58, 161-173.	1.0	7
56	Dynamic Call Admission Control for Uplink in 3G/4G CDMA-Based Systems. IEEE Transactions on Vehicular Technology, 2007, 56, 2617-2629.	6.3	6
57	Novel geometrical solution to additivity problem of classical quantum channel capacity. , 2010, , .		6
58	Informational geometric analysis of superactivation of asymptotic quantum capacity of zero-capacity optical quantum channels. Proceedings of SPIE, 2011, , .	0.8	6
59	Measuring Local Topological Anonymity in Social Networks. , 2012, , .		6
60	Quasi-superactivation of classical capacity of zero-capacity quantum channels. Journal of Modern Optics, 2012, 59, 1243-1264.	1.3	6
61	Superactivation of quantum channels is limited by the quantum relative entropy function. Quantum Information Processing, 2013, 12, 1011-1021.	2.2	6
62	Seeing is Believing and Vice Versa: Investigation of the Altered Perception during Subjective Assessment of Streaming Multimedia. , 2014, , .		6
63	Eigenchannel decomposition for continuous-variable quantum key distribution. Proceedings of SPIE, 2015, , .	0.8	6
64	A Poisson Model for Entanglement Optimization in the Quantum Internet. Quantum Information Processing, 2019, 18, 1.	2.2	6
65	Gaussian quadrature inference for multicarrier continuous-variable quantum key distribution. Quantum Studies: Mathematics and Foundations, 2019, 6, 397-430.	0.9	6
66	Source Controlled and Delay Sensitive Selective Retransmission Scheme for Multimedia Streaming. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	5
67	Radio resource management for MIMO-OFDMA access in Rayleigh fading channel. , 2010, , .		5
68	Analyzing the Quantum Based Satellite Communications. Procedia Computer Science, 2011, 7, 256-257.	2.0	5
69	Service Mediation in multihop Bluetooth Low Energy networks based on NDN approach. , 2015, , .		5
70	Modified quantum superdense coding for distributed communications. International Journal of Communication Systems, 2016, 29, 417-423.	2.5	5
71	Quantum circuitâ€based modeling of continuousâ€variable quantum key distribution system. International Journal of Circuit Theory and Applications, 2017, 45, 1017-1028.	2.0	5
72	Diversity space of multicarrier continuousâ€variable quantum key distribution. International Journal of Communication Systems, 2019, 32, e4003.	2.5	5

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73	Secret key rates of free‑space optical continuous‑variable quantum key distribution. International Journal of Communication Systems, 2019, 32, e4152.	2.5	5
74	Information geometric superactivation of classical zero-error capacity of quantum channels. Progress in Informatics, 2011, , 89.	0.2	5
75	On the accuracy of mobility modelling in wireless networks. , 2004, , .		4
76	A Simulated Annealing Based Location Area Optimization in Next Generation Mobile Networks. Mobile Information Systems, 2007, 3, 221-232.	0.6	4
77	The Accuracy of Location Prediction Algorithms Based on Markovian Mobility Models. International Journal of Mobile Computing and Multimedia Communications, 2009, 1, 1-21.	0.5	4
78	Solutions for Redundancy-Free Error Correction in Quantum Channel. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 117-124.	0.3	4
79	Extension and analysis of modified superdense-coding in multi-user environment. , 2015, , .		4
80	Simulation and analysis of concurrent BLE link layer state machines running within the same physical device. , 2017, , .		4
81	Subcarrier Domain of Multicarrier Continuous-Variable Quantum Key Distribution. Journal of Statistical Physics, 2019, 177, 960-983.	1.2	4
82	Constrained Quantum Optimization Algorithm. , 2021, , .		4
83	Hiding Information in Social Networks from De-anonymization Attacks by Using Identity Separation. Lecture Notes in Computer Science, 2013, , 173-184.	1.3	4
84	Resource prioritization and balancing for the quantum internet. Scientific Reports, 2020, 10, 22390.	3.3	4
85	Adaptive Clustering Using Mobile Agents in Wireless Ad-Hoc Networks. Lecture Notes in Computer Science, 2001, , 199-204.	1.3	3
86	Anycast Subnet Optimization for Efficient IPv6 Mobility Management. , 2007, , .		3
87	Novel Approach for Quantum Mechanical Based Autonomic Communication. , 2009, , .		3
88	Modeling Role-Based Privacy in Social Networking Services. , 2009, , .		3
89	Elliptic curve cryptography based authentication protocol for small computational capacity RFID systems. , 2010, , .		3
90	Quantum Key Distribution over Space-Space Laser Communication Links. , 2012, , .		3

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91	Long-distance quantum communications with superactivated Gaussian optical quantum channels. Optical Engineering, 2012, 51, 015003.	1.0	3
92	BME VIK Annual Research Report on Electrical Engineering and Computer Science 2015. Periodica Polytechnica Electrical Engineering and Computer Science, 2016, 60, 1-36.	1.0	3
93	Derivation of Parameters of Quantum optimization in Resource Distribution Management. , 2019, , .		3
94	Dynamic Agent Domains in Mobile Agent Based Network Management. Lecture Notes in Computer Science, 2001, , 468-477.	1.3	3
95	Location Area Design Algorithms for Minimizing Signalling Costs in Mobile Networks. International Journal of Business Data Communications and Networking, 2007, 3, 36-50.	0.7	3
96	The Generalized Quantum Database Search Algorithm. Computing (Vienna/New York), 2004, 73, 245-269.	4.8	2
97	Dynamic Call Admission Control for Centralized CDMA Systems. Telecommunication Systems, 2005, 29, 257-282.	2.5	2
98	Content-aware interface selection method for multi-path video streaming in best-effort networks. , 2009, , .		2
99	Simple Lightweight Authentication Protocol. International Journal of Business Data Communications and Networking, 2010, 6, 66-94.	0.7	2
100	Elliptic curve cryptography based mutual authentication protocol for low computational complexity environment. , 2010, , .		2
101	QUANTUM SINGULAR VALUE DECOMPOSITION BASED APPROXIMATION ALGORITHM. Journal of Circuits, Systems and Computers, 2010, 19, 1141-1162.	1.5	2
102	Novel quantum information solution to copy-protection and secured authentication. International Journal of Internet Technology and Secured Transactions, 2011, 3, 40.	0.4	2
103	Information geometric security analysis of differential phaseâ€shift quantum key distribution protocol. Security and Communication Networks, 2013, 6, 129-150.	1.5	2
104	The correlation conversion property of quantum channels: distillable entanglement from classical correlation. , 2013, , .		2
105	Quantum Communications [Guest Editorial]. , 2013, 51, 26-27.		2
106	Qualityâ€based charging solutions for wireless multimedia services. International Journal of Network Management, 2014, 24, 357-401.	2.2	2
107	Quantum Resource Distribution Management in Multi-task Environment. , 2019, , .		2
108	Quantum Optimization in Large Resource Management Systems. , 2019, , .		2

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109	Statistical quadrature evolution by inference for multicarrier continuous-variable quantum key distribution. Quantum Studies: Mathematics and Foundations, 2020, 7, 99-124.	0.9	2
110	Secret Key Rate Adaption for Multicarrier Continuous-Variable Quantum Key Distribution. SN Computer Science, 2020, 1, 1.	3.6	2
111	Separating Private and Business Identities. , 0, , 114-132.		2
112	Quantum Optimization of Resource Distribution Management for Multi-Task, Multi-Subtasks. Infocommunications Journal, 2019, 11, 47-53.	0.8	2
113	New Quantum Strategy for MIMO System Optimization. , 2022, , .		2
114	VTBM - a Novel Distributed MAC Approach for Wireless Networks. , 0, , .		1
115	Advice of Charge in Telecommunication Services. , 2007, , .		1
116	Algorithmical analysis of information-theoretic aspects ofÂsecure communication over optical-fiber quantum channels. Journal of Optical and Fiber Communications Research, 2010, 7, 10-42.	0.5	1
117	Average system capacity in a two-tier LTE environment with random waypoint mobile users. , 2012, , .		1
118	Partial CDR database dimensioning. Telecommunication Systems, 2013, 52, 73-83.	2.5	1
119	Pilot quantum error correction for global-scale quantum communications. , 2013, , .		1
120	Comparison of BB84 and S09 Quantum Key Distribution Protocols in Space-Space Links. , 2013, , .		1
121	Opening of hidden capacity-domains of quantum channels. , 2013, , .		1
122	Bandwidth Management in Wireless Home Networks for IPTV Solutions. International Journal of Digital Multimedia Broadcasting, 2013, 2013, 1-7.	0.6	1
123	Reliable quantum communication over a quantum relay channel. AIP Conference Proceedings, 2014, , .	0.4	1
124	Second generation QKD system over commercial fibers. , 2016, , .		1
125	Cooperation and coalitional stability in decentralized wireless networks. Telecommunication Systems, 2017, 64, 571-584.	2.5	1
126	Cake-cutting approach for privacy-enhanced base station sharing in a linear model of user assignment. , 2019, , .		1

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127	Mobile Agent Distribution in a Game-Theoretic Approach. Lecture Notes in Computer Science, 2002, , 163-170.	1.3	1
128	A Poisson model for entanglement optimization in the quantum internet. , 2018, , .		1
129	Analysis of Hierarchical Paging. Lecture Notes in Computer Science, 2008, , 103-112.	1.3	1
130	Resource Prioritization and Resource Balancing for the Quantum Internet. , 2019, , .		1
131	A NEW CALL ADMISSION CONTROL METHOD BASED ON THE ESTIMATION OF THE LOST CELL. Journal of Circuits, Systems and Computers, 1999, 09, 321-338.	1.5	0
132	Performance Evaluation of Multimedia Services in Cellular Networks. Simulation, 2002, 78, 268-277.	1.8	0
133	QUANTUM COMPUTATION BASED PROBABILITY DENSITY FUNCTION ESTIMATION. International Journal of Quantum Information, 2005, 03, 93-98.	1.1	0
134	Synchronised Dynamic p-Persistent MAC Protocol for Mobile Ad Hoc Networks. , 2006, , .		0
135	Virtual transmission based MAC protocol for wireless access. IET Circuits, Devices and Systems, 2006, 153, 351.	0.6	0
136	Simple QoS provisioning framework for MBMS in all-IP UMTS networks. , 2008, , .		0
137	Quantum Informational Geometry for Secret Quantum Communication. , 2009, , .		0
138	TFRC and RTT thresholds interdependence in a selective retransmission scheme. , 2009, , .		0
139	Information Geometric Solution to Additivity of Amplitude-Damping Quantum Channel. , 2011, , .		0
140	Polaractivation of private capacity-domain of non-private quantum channels. , 2012, , .		0
141	Performance evaluation of anycast-based micro-mobility management. International Journal of Mobile Network Design and Innovation, 2012, 4, 32.	0.1	0
142	Prolog to the Section on Wireless Communications Technology. Proceedings of the IEEE, 2012, 100, 1849-1852.	21.3	0
143	Application of LTE small cells in urban environments for higher capacity. , 2013, , .		0
144	Polaractivation for classical zero-error capacity of qudit channels. , 2014, , .		0

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145	Quasi-superactivation for the classical capacity of quantum channels. , 2014, , .		0
146	Improving wireless network throughput with constant dimension subspace codes. , 2014, , .		0
147	The fault in our scores: Impact analysis of distorted subjective data in objective QoE assessment. , 2015, , .		0
148	Position guided local routing and reconfiguration in mobile telecommunication networks with scale-free topology. , 2015, , .		0
149	Performance Analysis of Entanglement-based Competition Resolution in Distributed Systems. , 2018, , .		0
150	Hiding information against structural re-identification. International Journal of Information Security, 2019, 18, 125-139.	3.4	0
151	Entanglement-Based Competition Resolution in Distributed Systems. IEEE Access, 2021, 9, 10253-10262.	4.2	0
152	Traffic Analysis of Multimedia Services in Broadband Cellular Networks. Lecture Notes in Computer Science, 2001, , 296-306.	1.3	0
153	Maximum Likelihood Based Quantum Set Separation. Lecture Notes in Computer Science, 2004, , 318-325.	1.3	0
154	Location Area Design Algorithms for Minimizing Signalling Costs in Mobile Networks. , 2009, , 682-695.		0
155	Using Redundancy-Free Quantum Channels for Improving the Satellite Communication. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 317-329.	0.3	0
156	The Accuracy of Location Prediction Algorithms Based on Markovian Mobility Models. , 2011, , 106-125.		0
157	Security Aspects in Radio Frequency Identification Systems. , 2012, , 187-225.		0
158	Security Aspects in Radio Frequency Identification Networks. , 2015, , 4412-4423.		0
159	Comprehensive Study of Security Solutions in Radio Frequency Identification Systems. International Journal of Sensors, Wireless Communications and Control, 2017, 7, .	0.7	0
160	Improved reconciliation for continuous-variable quantum key distribution. , 2019, , .		0
161	High-retrieval efficiency quantum memory for the quantum internet. , 2020, , .		0
162	Objective function maximization by machine learning for gate-model quantum computers. , 2020, , .		0

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163	Tracking and Fingerprinting in E-Business. Advances in E-Business Research Series, 0, , 134-166.	0.4	0
164	Emerging Mobility Applications of Host Identity Protocol. , 0, , 201-216.		0
165	Host Identity Protocol. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 247-272.	0.4	0
166	Overview of IP Multimedia Subsystem Protocols and Communication Services. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 273-299.	0.4	0
167	SCTP. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 397-414.	0.4	0
168	Resource optimization for the quantum Internet. , 2022, , .		0
169	Location-Dependent Data Access and Queries. , 0, , 399-420.		0