

# Sándor D Imre

## List of Publications by Year in descending order

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169  
papers

2,343  
citations

411340

20  
h-index

299063

42  
g-index

177  
all docs

177  
docs citations

177  
times ranked

1548  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resource optimization for the quantum Internet. , 2022, , .		0
2	New Quantum Strategy for MIMO System Optimization. , 2022, , .		2
3	Entanglement-Based Competition Resolution in Distributed Systems. IEEE Access, 2021, 9, 10253-10262.	2.6	0
4	Scalable distributed gate-model quantum computers. Scientific Reports, 2021, 11, 5172.	1.6	22
5	Constrained Quantum Optimization Algorithm. , 2021, , .		4
6	Statistical quadrature evolution by inference for multicarrier continuous-variable quantum key distribution. Quantum Studies: Mathematics and Foundations, 2020, 7, 99-124.	0.4	2
7	Secret Key Rate Adaption for Multicarrier Continuous-Variable Quantum Key Distribution. SN Computer Science, 2020, 1, 1.	2.3	2
8	Optimizing High-Efficiency Quantum Memory with Quantum Machine Learning for Near-Term Quantum Devices. Scientific Reports, 2020, 10, 135.	1.6	30
9	Routing space exploration for scalable routing in the quantum Internet. Scientific Reports, 2020, 10, 11874.	1.6	14
10	Circuit Depth Reduction for Gate-Model Quantum Computers. Scientific Reports, 2020, 10, 11229.	1.6	27
11	Entanglement concentration service for the quantum Internet. Quantum Information Processing, 2020, 19, 1.	1.0	9
12	Entanglement accessibility measures for the quantum Internet. Quantum Information Processing, 2020, 19, 1.	1.0	28
13	Theory of Noise-Scaled Stability Bounds and Entanglement Rate Maximization in the Quantum Internet. Scientific Reports, 2020, 10, 2745.	1.6	13
14	Resource prioritization and balancing for the quantum internet. Scientific Reports, 2020, 10, 22390.	1.6	4
15	High-retrieval efficiency quantum memory for the quantum internet. , 2020, , .		0
16	Objective function maximization by machine learning for gate-model quantum computers. , 2020, , .		0
17	Derivation of Parameters of Quantum optimization in Resource Distribution Management. , 2019, , .		3
18	Diversity space of multicarrier continuous-variable quantum key distribution. International Journal of Communication Systems, 2019, 32, e4003.	1.6	5

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19	Subcarrier Domain of Multicarrier Continuous-Variable Quantum Key Distribution. Journal of Statistical Physics, 2019, 177, 960-983.	0.5	4
20	State stabilization for gate-model quantum computers. Quantum Information Processing, 2019, 18, 1.	1.0	12
21	Training Optimization for Gate-Model Quantum Neural Networks. Scientific Reports, 2019, 9, 12679.	1.6	28
22	Secret key rate proof of multicarrier continuous-variable quantum key distribution. International Journal of Communication Systems, 2019, 32, e3865.	1.6	10
23	A Survey on quantum computing technology. Computer Science Review, 2019, 31, 51-71.	10.2	287
24	A Poisson Model for Entanglement Optimization in the Quantum Internet. Quantum Information Processing, 2019, 18, 1.	1.0	6
25	Quantum circuit design for objective function maximization in gate-model quantum computers. Quantum Information Processing, 2019, 18, 1.	1.0	23
26	Dense Quantum Measurement Theory. Scientific Reports, 2019, 9, 6755.	1.6	31
27	Entanglement access control for the quantum Internet. Quantum Information Processing, 2019, 18, 1.	1.0	33
28	Opportunistic Entanglement Distribution for the Quantum Internet. Scientific Reports, 2019, 9, 2219.	1.6	45
29	Gaussian quadrature inference for multicarrier continuous-variable quantum key distribution. Quantum Studies: Mathematics and Foundations, 2019, 6, 397-430.	0.4	6
30	Cake-cutting approach for privacy-enhanced base station sharing in a linear model of user assignment. , 2019, , .		1
31	Quantum Resource Distribution Management in Multi-task Environment. , 2019, , .		2
32	Quantum Optimization in Large Resource Management Systems. , 2019, , .		2
33	Secret key rates of free-space optical continuous-variable quantum key distribution. International Journal of Communication Systems, 2019, 32, e4152.	1.6	5
34	Theory of quantum gravity information processing. Quantum Engineering, 2019, 1, e23.	1.2	9
35	Adaptive routing for quantum memory failures in the quantum Internet. Quantum Information Processing, 2019, 18, 1.	1.0	18
36	Hiding information against structural re-identification. International Journal of Information Security, 2019, 18, 125-139.	2.3	0

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37	A Survey on Quantum Key Distribution. Infocommunications Journal, 2019, , 14-21.	0.6	28
38	Quantum Optimization of Resource Distribution Management for Multi-Task, Multi-Subtasks. Infocommunications Journal, 2019, 11, 47-53.	0.6	2
39	Resource Prioritization and Resource Balancing for the Quantum Internet. , 2019, , .		1
40	Improved reconciliation for continuous-variable quantum key distribution. , 2019, , .		0
41	A Survey on Quantum Channel Capacities. IEEE Communications Surveys and Tutorials, 2018, 20, 1149-1205.	24.8	194
42	Performance Analysis of Entanglement-based Competition Resolution in Distributed Systems. , 2018, , .		0
43	Topology adaption for the quantum Internet. Quantum Information Processing, 2018, 17, 1.	1.0	21
44	Multilayer Optimization for the Quantum Internet. Scientific Reports, 2018, 8, 12690.	1.6	30
45	Entanglement Availability Differentiation Service for the Quantum Internet. Scientific Reports, 2018, 8, 10620.	1.6	33
46	Low-Dimensional Reconciliation for Continuous-Variable Quantum Key Distribution. Applied Sciences (Switzerland), 2018, 8, 87.	1.3	21
47	Decentralized base-graph routing for the quantum internet. Physical Review A, 2018, 98, .	1.0	63
48	Multiple access multicarrier continuous-variable quantum key distribution. Chaos, Solitons and Fractals, 2018, 114, 491-505.	2.5	17
49	Dynamic topology resilience for quantum networks. , 2018, , .		15
50	A Poisson model for entanglement optimization in the quantum internet. , 2018, , .		1
51	Entanglement Concentration Service for the Quantum Internet. , 2018, , .		7
52	Cooperation and coalitional stability in decentralized wireless networks. Telecommunication Systems, 2017, 64, 571-584.	1.6	1
53	Quantum circuit-based modeling of continuous-variable quantum key distribution system. International Journal of Circuit Theory and Applications, 2017, 45, 1017-1028.	1.3	5
54	Entanglement-Gradient Routing for Quantum Networks. Scientific Reports, 2017, 7, 14255.	1.6	50

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55	Simulation and analysis of concurrent BLE link layer state machines running within the same physical device. , 2017, , .		4
56	Comprehensive Study of Security Solutions in Radio Frequency Identification Systems. International Journal of Sensors, Wireless Communications and Control, 2017, 7, .	0.5	0
57	BME VIK Annual Research Report on Electrical Engineering and Computer Science 2015. Periodica Polytechnica Electrical Engineering and Computer Science, 2016, 60, 1-36.	0.6	3
58	An Efficient and Robust Social Network De-anonymization Attack. , 2016, , .		10
59	Perceived quality of angular resolution for light field displays and the validity of subjective assessment. , 2016, , .		11
60	Second generation QKD system over commercial fibers. , 2016, , .		1
61	Modified quantum superdense coding for distributed communications. International Journal of Communication Systems, 2016, 29, 417-423.	1.6	5
62	The fault in our scores: Impact analysis of distorted subjective data in objective QoE assessment. , 2015, , .		0
63	Extension and analysis of modified superdense-coding in multi-user environment. , 2015, , .		4
64	Service Mediation in multihop Bluetooth Low Energy networks based on NDN approach. , 2015, , .		5
65	Eigenchannel decomposition for continuous-variable quantum key distribution. Proceedings of SPIE, 2015, , .	0.8	6
66	Position guided local routing and reconfiguration in mobile telecommunication networks with scale-free topology. , 2015, , .		0
67	A survey of handover management in LTE-based multi-tier femtocell networks: Requirements, challenges and solutions. Computer Networks, 2015, 76, 17-41.	3.2	102
68	Security Aspects in Radio Frequency Identification Networks. , 2015, , 4412-4423.		0
69	Polaractivation for classical zero-error capacity of qudit channels. , 2014, , .		0
70	Quasi-superactivation for the classical capacity of quantum channels. , 2014, , .		0
71	Reliable quantum communication over a quantum relay channel. AIP Conference Proceedings, 2014, , .	0.3	1
72	Quality-based charging solutions for wireless multimedia services. International Journal of Network Management, 2014, 24, 357-401.	1.4	2

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73	Long-distance continuous-variable quantum key distribution with advanced reconciliation of a Gaussian modulation. Proceedings of SPIE, 2014, , .	0.8	15
74	Quantum computing and communications – Introduction and challenges. Computers and Electrical Engineering, 2014, 40, 134-141.	3.0	14
75	Measuring importance of seeding for structural de-anonymization attacks in social networks. , 2014, , .		8
76	Improving wireless network throughput with constant dimension subspace codes. , 2014, , .		0
77	Geometrical analysis of physically allowed quantum cloning transformations for quantum cryptography. Information Sciences, 2014, 285, 1-23.	4.0	19
78	Seeing is Believing and Vice Versa: Investigation of the Altered Perception during Subjective Assessment of Streaming Multimedia. , 2014, , .		6
79	Singular layer transmission for continuous-variable quantum key distribution. , 2014, , .		14
80	Adaptive multicarrier quadrature division modulation for long-distance continuous-variable quantum key distribution. Proceedings of SPIE, 2014, , .	0.8	16
81	Analysis of Grasshopper, a Novel Social Network De-anonymization Algorithm. Periodica Polytechnica Electrical Engineering and Computer Science, 2014, 58, 161-173.	0.6	7
82	Information geometric security analysis of differential phase-shift quantum key distribution protocol. Security and Communication Networks, 2013, 6, 129-150.	1.0	2
83	Quantum communications: explained for communication engineers. , 2013, 51, 28-35.		38
84	Partial CDR database dimensioning. Telecommunication Systems, 2013, 52, 73-83.	1.6	1
85	The correlation conversion property of quantum channels: distillable entanglement from classical correlation. , 2013, , .		2
86	Pilot quantum error correction for global-scale quantum communications. , 2013, , .		1
87	Superactivation of quantum channels is limited by the quantum relative entropy function. Quantum Information Processing, 2013, 12, 1011-1021.	1.0	6
88	Algorithmic superactivation of asymptotic quantum capacity of zero-capacity quantum channels. Information Sciences, 2013, 222, 737-753.	4.0	8
89	Comparison of BB84 and S09 Quantum Key Distribution Protocols in Space-Space Links. , 2013, , .		1
90	Quantum Communications [Guest Editorial]. , 2013, 51, 26-27.		2

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91	Application of LTE small cells in urban environments for higher capacity. , 2013, , .		0
92	Distortions in QoE assessment of 3D multimedia services on multi-access mobile devices. , 2013, , .		7
93	Opening of hidden capacity-domains of quantum channels. , 2013, , .		1
94	Bandwidth Management in Wireless Home Networks for IPTV Solutions. International Journal of Digital Multimedia Broadcasting, 2013, 2013, 1-7.	0.4	1
95	Hiding Information in Social Networks from De-anonymization Attacks by Using Identity Separation. Lecture Notes in Computer Science, 2013, , 173-184.	1.0	4
96	Measuring Local Topological Anonymity in Social Networks. , 2012, , .		6
97	Polaractivation of private capacity-domain of non-private quantum channels. , 2012, , .		0
98	Performance evaluation of anycast-based micro-mobility management. International Journal of Mobile Network Design and Innovation, 2012, 4, 32.	0.1	0
99	Quantum Key Distribution over Space-Space Laser Communication Links. , 2012, , .		3
100	Wireless Myths, Realities, and Futures: From 3G/4G to Optical and Quantum Wireless. Proceedings of the IEEE, 2012, 100, 1853-1888.	16.4	315
101	Prolog to the Section on Wireless Communications Technology. Proceedings of the IEEE, 2012, 100, 1849-1852.	16.4	0
102	Distortions in QoE Measurements of Ubiquitous Mobile Video Services Caused by the Preconceptions of Test Subjects. , 2012, , .		7
103	Average system capacity in a two-tier LTE environment with random waypoint mobile users. , 2012, , .		1
104	Quasi-superactivation of classical capacity of zero-capacity quantum channels. Journal of Modern Optics, 2012, 59, 1243-1264.	0.6	6
105	Long-distance quantum communications with superactivated Gaussian optical quantum channels. Optical Engineering, 2012, 51, 015003.	0.5	3
106	User Tracking on the Web via Cross-Browser Fingerprinting. Lecture Notes in Computer Science, 2012, , 31-46.	1.0	80
107	Security Aspects in Radio Frequency Identification Systems. , 2012, , 187-225.		0
108	Information Geometrical Analysis of Additivity of Optical Quantum Channels. Journal of Optical Communications and Networking, 2011, 3, 48.	3.3	8

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109	Informational geometric analysis of superactivation of asymptotic quantum capacity of zero-capacity optical quantum channels. Proceedings of SPIE, 2011, , .	0.8	6
110	Novel quantum information solution to copy-protection and secured authentication. International Journal of Internet Technology and Secured Transactions, 2011, 3, 40.	0.3	2
111	Analyzing the Quantum Based Satellite Communications. Procedia Computer Science, 2011, 7, 256-257.	1.2	5
112	Information Geometric Solution to Additivity of Amplitude-Damping Quantum Channel. , 2011, , .		0
113	Information geometric superactivation of classical zero-error capacity of quantum channels. Progress in Informatics, 2011, , 89.	0.2	5
114	The Accuracy of Location Prediction Algorithms Based on Markovian Mobility Models. , 2011, , 106-125.		0
115	Algorithmical analysis of information-theoretic aspects of secure communication over optical-fiber quantum channels. Journal of Optical and Fiber Communications Research, 2010, 7, 10-42.	0.5	1
116	Simple Lightweight Authentication Protocol. International Journal of Business Data Communications and Networking, 2010, 6, 66-94.	1.2	2
117	Elliptic curve cryptography based authentication protocol for small computational capacity RFID systems. , 2010, , .		3
118	Elliptic curve cryptography based mutual authentication protocol for low computational complexity environment. , 2010, , .		2
119	Radio resource management for MIMO-OFDMA access in Rayleigh fading channel. , 2010, , .		5
120	QUANTUM SINGULAR VALUE DECOMPOSITION BASED APPROXIMATION ALGORITHM. Journal of Circuits, Systems and Computers, 2010, 19, 1141-1162.	1.0	2
121	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.	0.2	4
122	Elliptic curve cryptography based mutual authentication protocol for low computational capacity RFID systems - performance analysis by simulations. , 2010, , .		23
123	Novel geometrical solution to additivity problem of classical quantum channel capacity. , 2010, , .		6
124	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.	0.2	0
125	The Accuracy of Location Prediction Algorithms Based on Markovian Mobility Models. International Journal of Mobile Computing and Multimedia Communications, 2009, 1, 1-21.	0.4	4
126	Accurate Mobility Modeling and Location Prediction Based on Pattern Analysis of Handover Series in Mobile Networks. Mobile Information Systems, 2009, 5, 255-289.	0.4	13



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127	Content-aware interface selection method for multi-path video streaming in best-effort networks. , 2009, , .		2
128	Novel Approach for Quantum Mechanical Based Autonomic Communication. , 2009, , .		3
129	Quantum Informational Geometry for Secret Quantum Communication. , 2009, , .		0
130	TFRC and RTT thresholds interdependence in a selective retransmission scheme. , 2009, , .		0
131	Modeling Role-Based Privacy in Social Networking Services. , 2009, , .		3
132	Location Area Design Algorithms for Minimizing Signalling Costs in Mobile Networks. , 2009, , 682-695.		0
133	Source controlled semi-reliable multimedia streaming using selective retransmission in DCCP/IP networks. Computer Communications, 2008, 31, 2676-2684.	3.1	9
134	Simple QoS provisioning framework for MBMS in all-IP UMTS networks. , 2008, , .		0
135	Mutual Authentication Protocol for Low Computational Capacity RFID Systems. , 2008, , .		10
136	Analysis of Hierarchical Paging. Lecture Notes in Computer Science, 2008, , 103-112.	1.0	1
137	Source Controlled and Delay Sensitive Selective Retransmission Scheme for Multimedia Streaming. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	5
138	Quantum Existence Testing and Its Application for Finding Extreme Values in Unsorted Databases. IEEE Transactions on Computers, 2007, 56, 706-710.	2.4	17
139	A HIP Based Network Mobility Protocol. , 2007, , .		13
140	Advice of Charge in Telecommunication Services. , 2007, , .		1
141	Anycast Subnet Optimization for Efficient IPv6 Mobility Management. , 2007, , .		3
142	Dynamic Call Admission Control for Uplink in 3G/4G CDMA-Based Systems. IEEE Transactions on Vehicular Technology, 2007, 56, 2617-2629.	3.9	6
143	A Simulated Annealing Based Location Area Optimization in Next Generation Mobile Networks. Mobile Information Systems, 2007, 3, 221-232.	0.4	4
144	Location Area Design Algorithms for Minimizing Signalling Costs in Mobile Networks. International Journal of Business Data Communications and Networking, 2007, 3, 36-50.	1.2	3

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145	Synchronised Dynamic p-Persistent MAC Protocol for Mobile Ad Hoc Networks. , 2006, , .		0
146	Virtual transmission based MAC protocol for wireless access. IET Circuits, Devices and Systems, 2006, 153, 351.	0.6	0
147	Dynamic Call Admission Control for Centralized CDMA Systems. Telecommunication Systems, 2005, 29, 257-282.	1.6	2
148	QUANTUM COMPUTATION BASED PROBABILITY DENSITY FUNCTION ESTIMATION. International Journal of Quantum Information, 2005, 03, 93-98.	0.6	0
149	EXTREME VALUE SEARCHING IN UNSORTED DATABASES BASED ON QUANTUM COMPUTING. International Journal of Quantum Information, 2005, 03, 171-176.	0.6	7
150	On the accuracy of mobility modelling in wireless networks. , 2004, , .		4
151	The Generalized Quantum Database Search Algorithm. Computing (Vienna/New York), 2004, 73, 245-269.	3.2	2
152	Maximum Likelihood Based Quantum Set Separation. Lecture Notes in Computer Science, 2004, , 318-325.	1.0	0
153	Performance Evaluation of Multimedia Services in Cellular Networks. Simulation, 2002, 78, 268-277.	1.1	0
154	A survey of multiuser/multisubchannel detection schemes based on recurrent neural networks. Wireless Communications and Mobile Computing, 2002, 2, 269-284.	0.8	24
155	Modeling and Analysis of Broadband Cellular Networks with Multimedia Connections. Telecommunication Systems, 2002, 19, 263-288.	1.6	14
156	Mobile Agent Distribution in a Game-Theoretic Approach. Lecture Notes in Computer Science, 2002, , 163-170.	1.0	1
157	Adaptive Clustering Using Mobile Agents in Wireless Ad-Hoc Networks. Lecture Notes in Computer Science, 2001, , 199-204.	1.0	3
158	Dynamic Agent Domains in Mobile Agent Based Network Management. Lecture Notes in Computer Science, 2001, , 468-477.	1.0	3
159	Traffic Analysis of Multimedia Services in Broadband Cellular Networks. Lecture Notes in Computer Science, 2001, , 296-306.	1.0	0
160	A NEW CALL ADMISSION CONTROL METHOD BASED ON THE ESTIMATION OF THE LOST CELL. Journal of Circuits, Systems and Computers, 1999, 09, 321-338.	1.0	0
161	Non-coherent multi-user detection based on quantum search. , 0, , .		19
162	VTBM - a Novel Distributed MAC Approach for Wireless Networks. , 0, , .		1

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163	Separating Private and Business Identities. , 0, , 114-132.		2
164	Tracking and Fingerprinting in E-Business. Advances in E-Business Research Series, 0, , 134-166.	0.2	0
165	Emerging Mobility Applications of Host Identity Protocol. , 0, , 201-216.		0
166	Host Identity Protocol. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 247-272.	0.3	0
167	Overview of IP Multimedia Subsystem Protocols and Communication Services. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 273-299.	0.3	0
168	SCTP. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 397-414.	0.3	0
169	Location-Dependent Data Access and Queries. , 0, , 399-420.		0