Yuan Feng

List of Publications by Year
in descending order

Version: 2024-02-01

87 papers	1,603 citations	361413 20 h-index	345221 36 g-index
92 all docs	92 docs citations	92 times ranked	680 citing authors

#	Article	IF	Citations
1	Supervised Learning Enhanced Quantum Circuit Transformation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 437-447.	2.7	2
2	A proof system for disjoint parallel quantum programs. Theoretical Computer Science, 2022, 897, 164-184.	0.9	9
3	Quantum Circuit Transformation: A Monte Carlo Tree Search Framework. ACM Transactions on Design Automation of Electronic Systems, 2022, 27, 1-27.	2.6	4
4	A Tensor Network based Decision Diagram for Representation of Quantum Circuits. ACM Transactions on Design Automation of Electronic Systems, 2022, 27, 1-30.	2.6	5
5	Formal semantics of a classical-quantum language. Theoretical Computer Science, 2022, 913, 73-93.	0.9	1
6	Verification of Distributed Quantum Programs. ACM Transactions on Computational Logic, 2022, 23, 1-40.	0.9	4
7	Qubit Mapping Based on Subgraph Isomorphism and Filtered Depth-Limited Search. IEEE Transactions on Computers, 2021, 70, 1777-1788.	3.4	18
8	Optimal Policies for Quantum Markov Decision Processes. International Journal of Automation and Computing, 2021, 18, 410-421.	4.5	6
9	Approximate Equivalence Checking of Noisy Quantum Circuits. , 2021, , .		11
10	Symbolic Reasoning About Quantum Circuits in Coq. Journal of Computer Science and Technology, 2021, 36, 1291-1306.	1.5	0
11	Quantum Hoare Logic with Classical Variables. ACM Transactions on Quantum Computing, 2021, 2, 1-43.	4.3	11
12	Quingo: A Programming Framework for Heterogeneous Quantum-Classical Computing with NISQ Features. ACM Transactions on Quantum Computing, 2021, 2, 1-37.	4.3	3
13	Measuring the constrained reachability in quantum Markov chains. Acta Informatica, 2020, , 1.	0.5	3
14	Quantum Circuit Transformation Based on Simulated Annealing and Heuristic Search. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 4683-4694.	2.7	31
15	A monte carlo tree search framework for quantum circuit transformation. , 2020, , .		10
16	Model-checking quantum systems. National Science Review, 2019, 6, 28-31.	9.5	3
17	Decomposition of quantum Markov chains and its applications. Journal of Computer and System Sciences, 2018, 95, 55-68.	1.2	10
18	Model Checking Probabilistic Epistemic Logic for Probabilistic Multiagent Systems. , 2018, , .		5

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19	Super-activating quantum memory with entanglement. Quantum Information and Computation, 2018, 18, 1115-1124.	0.3	0
20	Precisely deciding CSL formulas through approximate model checking for CTMCs. Journal of Computer and System Sciences, 2017, 89, 361-371.	1.2	3
21	Probabilistic bisimilarity as testing equivalence. Information and Computation, 2017, 257, 58-64.	0.7	1
22	ProEva: Runtime Proactive Performance Evaluation Based on Continuous-Time Markov Chains. , 2017, , .		9
23	Bisimulations for probabilistic linear lambda calculi. , 2017, , .		0
24	Verify LTL with Fairness Assumptions Efficiently. , 2016, , .		1
25	Asymptotic Perturbation Bounds for Probabilistic Model Checking with Empirically Determined Probability Parameters. IEEE Transactions on Software Engineering, 2016, 42, 623-639.	5.6	12
26	An Iterative Decision-Making Scheme for Markov Decision Processes and Its Application to Self-adaptive Systems. Lecture Notes in Computer Science, 2016, , 269-286.	1.3	10
27	On hybrid models of quantum finite automata. Journal of Computer and System Sciences, 2015, 81, 1144-1158.	1.2	10
28	A nearly optimal upper bound for the self-stabilization time in Hermanâ€™s algorithm. Distributed Computing, 2015, 28, 233-244.	0.8	0
29	Quantum Markov chains: Description of hybrid systems, decidability of equivalence, and model checking linear-time properties. Information and Computation, 2015, 244, 229-244.	0.7	9
30	QPMC: A Model Checker for Quantum Programs and Protocols. Lecture Notes in Computer Science, 2015, , 265-272.	1.3	13
31	Minimum guesswork discrimination between quantum states. Quantum Information and Computation, 2015, 15, 737-758.	0.3	3
32	Symbolic Bisimulation for Quantum Processes. ACM Transactions on Computational Logic, 2014, 15, 1-32.	0.9	19
33	Model-Checking Linear-Time Properties of Quantum Systems. ACM Transactions on Computational Logic, 2014, 15, 1-31.	0.9	17
34	When Equivalence and Bisimulation Join Forces in Probabilistic Automata. Lecture Notes in Computer Science, 2014, , 247-262.	1.3	16
35	Perturbation Analysis in Verification of Discrete-Time Markov Chains. Lecture Notes in Computer Science, 2014, , 218-233.	1.3	11
36	Verification of quantum programs. Science of Computer Programming, 2013, 78, 1679-1700.	1.9	37

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37	A tighter bound for the self-stabilization time in HermanÊ¼s algorithm. Information Processing Letters, 2013, 113, 486-488.	0.6	5
38	Model checking quantum Markov chains. Journal of Computer and System Sciences, 2013, 79, 1181-1198.	1.2	49
39	Quantum Information-Flow Security: Noninterference and Access Control. , 2013, , .		3
40	Reachability Probabilities of Quantum Markov Chains. Lecture Notes in Computer Science, 2013, , 334-348.	1.3	13
41	Reachability Analysis of Recursive Quantum Markov Chains. Lecture Notes in Computer Science, 2013, , 385-396.	1.3	3
42	A Discrete Event Simulation Based Production Line Optimization through Markov Decision Process. Communications in Computer and Information Science, 2013, , 385-390.	0.5	2
43	Bisimulation for Quantum Processes. ACM Transactions on Programming Languages and Systems, 2012, 34, 1-43.	2.1	16
44	Quantum programming: From theories to implementations. Science Bulletin, 2012, 57, 1903-1909.	1.7	8
45	Open Bisimulation for Quantum Processes. Lecture Notes in Computer Science, 2012, , 119-133.	1.3	14
46	A Flowchart Language for Quantum Programming. IEEE Transactions on Software Engineering, 2011, 37, 466-485.	5.6	20
47	Bisimulation for quantum processes. , 2011, , .		22
48	Bisimulation for quantum processes. ACM SIGPLAN Notices, 2011, 46, 523-534.	0.2	6
49	Quantum loop programs. Acta Informatica, 2010, 47, 221-250.	0.5	31
50	An algebra of quantum processes. ACM Transactions on Computational Logic, 2009, 10, 1-36.	0.9	44
51	Distinguishability of Quantum States by Separable Operations. IEEE Transactions on Information Theory, 2009, 55, 1320-1330.	2.4	78
52	Characterizing Locally Indistinguishable Orthogonal Product States. IEEE Transactions on Information Theory, 2009, 55, 2799-2806.	2.4	85
53	Perfect Distinguishability of Quantum Operations. Physical Review Letters, 2009, 103, 210501.	7.8	87
54	An Algebraic Language for Distributed Quantum Computing. IEEE Transactions on Computers, 2009, 58, 728-743.	3.4	33

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55	Parameter Estimation of Quantum Channels. IEEE Transactions on Information Theory, 2008, 54, 5172-5185.	2.4	94
56	Local Distinguishability of Multipartite Unitary Operations. Physical Review Letters, 2008, 100, 020503.	7.8	46
57	Publisherâ€™s Note: Entanglement is Not Necessary for Perfect Discrimination between Unitary Operations [Phys. Rev. Lett.PRLTAO0031-900798, 100503 (2007)]. Physical Review Letters, 2007, 98, .	7.8	4
58	Publisherâ€™s Note: Distinguishing Arbitrary Multipartite Basis Unambiguously Using Local Operations and Classical Communication [Phys. Rev. Lett.98, 230502 (2007)]. Physical Review Letters, 2007, 99, .	7.8	0
59	Entanglement is Not Necessary for Perfect Discrimination between Unitary Operations. Physical Review Letters, 2007, 98, 100503.	7.8	95
60	Distinguishing Arbitrary Multipartite Basis Unambiguously Using Local Operations and Classical Communication. Physical Review Letters, 2007, 98, 230502.	7.8	77
61	Probabilistic bisimulations for quantum processes. Information and Computation, 2007, 205, 1608-1639.	0.7	31
62	Commutativity of quantum weakest preconditions. Information Processing Letters, 2007, 104, 152-158.	0.6	11
63	Proof rules for the correctness of quantum programs. Theoretical Computer Science, 2007, 386, 151-166.	0.9	40
64	Unambiguous discrimination of mixed quantum states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 353, 300-306.	2.1	13
65	Some Issues in Quantum Information Theory. Journal of Computer Science and Technology, 2006, 21, 776-789.	1.5	6
66	Partial recovery of quantum entanglement. IEEE Transactions on Information Theory, 2006, 52, 3080-3104.	2.4	5
67	Identification and Distance Measures of Measurement Apparatus. Physical Review Letters, 2006, 96, 200401.	7.8	39
68	Boundary effect of deterministic dense coding. Physical Review A, 2006, 73, .	2.5	17
69	Relation between catalyst-assisted transformation and multiple-copy transformation for bipartite pure states. Physical Review A, 2006, 74, .	2.5	6
70	Optimal dense coding with arbitrary pure entangled states. Physical Review A, 2006, 74, .	2.5	15
71	Catalyst-Assisted Probabilistic Entanglement Transformation. IEEE Transactions on Information Theory, 2005, 51, 1090-1101.	2.4	16
72	Entanglement-assisted transformation is asymptotically equivalent to multiple-copy transformation. Physical Review A, 2005, 72, .	2.5	9

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73	Local cloning of two product states. Physical Review A, 2005, 72, .	2.5	2
74	Efficiency of deterministic entanglement transformation. Physical Review A, 2005, 71, .	2.5	5
75	Trade-off between multiple-copy transformation and entanglement catalysis. Physical Review A, 2005, 71, .	2.5	10
76	Multiple-copy entanglement transformation and entanglement catalysis. Physical Review A, 2005, 71, .	2.5	25
77	Condition and capability of quantum state separation. Physical Review A, 2005, 72, .	2.5	11
78	Unambiguous discrimination between mixed quantum states. Physical Review A, 2004, 70, .	2.5	72
79	When catalysis is useful for probabilistic entanglement transformation. Physical Review A, 2004, 69, .	2.5	10
80	Process algebra approach to reasoning about concurrent actions. Journal of Computer Science and Technology, 2004, 19, 364-373.	1.5	0
81	Quantum operation, quantum Fourier transform and semi-definite programming. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 48-56.	2.1	7
82	Probabilistic cloning and deleting of quantum states. Physical Review A, 2002, 65, .	2.5	12
83	Mathematical nature of and a family of lower bounds for the success probability of unambiguous discrimination. Physical Review A, 2002, 65, .	2.5	24
84	Lower bound on inconclusive probability of unambiguous discrimination. Physical Review A, 2002, 66, .	2.5	12
85	Universal and original-preserving quantum copying is impossible. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 297, 1-3.	2.1	1
86	Upper bound for the success probability of unambiguous discrimination among quantum states. Physical Review A, 2001, 64, .	2.5	40
87	Predicate Transformer Semantics of Quantum Programs. , 0, , 311-360.		8