

# Yuan Feng

## List of Publications by Year in descending order

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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	Entanglement is Not Necessary for Perfect Discrimination between Unitary Operations. Physical Review Letters, 2007, 98, 100503.	7.8	95
2	Parameter Estimation of Quantum Channels. IEEE Transactions on Information Theory, 2008, 54, 5172-5185.	2.4	94
3	Perfect Distinguishability of Quantum Operations. Physical Review Letters, 2009, 103, 210501.	7.8	87
4	Characterizing Locally Indistinguishable Orthogonal Product States. IEEE Transactions on Information Theory, 2009, 55, 2799-2806.	2.4	85
5	Distinguishability of Quantum States by Separable Operations. IEEE Transactions on Information Theory, 2009, 55, 1320-1330.	2.4	78
6	Distinguishing Arbitrary Multipartite Basis Unambiguously Using Local Operations and Classical Communication. Physical Review Letters, 2007, 98, 230502.	7.8	77
7	Unambiguous discrimination between mixed quantum states. Physical Review A, 2004, 70, .	2.5	72
8	Model checking quantum Markov chains. Journal of Computer and System Sciences, 2013, 79, 1181-1198.	1.2	49
9	Local Distinguishability of Multipartite Unitary Operations. Physical Review Letters, 2008, 100, 020503.	7.8	46
10	An algebra of quantum processes. ACM Transactions on Computational Logic, 2009, 10, 1-36.	0.9	44
11	Upper bound for the success probability of unambiguous discrimination among quantum states. Physical Review A, 2001, 64, .	2.5	40
12	Proof rules for the correctness of quantum programs. Theoretical Computer Science, 2007, 386, 151-166.	0.9	40
13	Identification and Distance Measures of Measurement Apparatus. Physical Review Letters, 2006, 96, 200401.	7.8	39
14	Verification of quantum programs. Science of Computer Programming, 2013, 78, 1679-1700.	1.9	37
15	An Algebraic Language for Distributed Quantum Computing. IEEE Transactions on Computers, 2009, 58, 728-743.	3.4	33
16	Probabilistic bisimulations for quantum processes. Information and Computation, 2007, 205, 1608-1639.	0.7	31
17	Quantum loop programs. Acta Informatica, 2010, 47, 221-250.	0.5	31
18	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

#	ARTICLE	IF	CITATIONS
19	Multiple-copy entanglement transformation and entanglement catalysis. <i>Physical Review A</i> , 2005, 71, .	2.5	25
20	Mathematical nature of and a family of lower bounds for the success probability of unambiguous discrimination. <i>Physical Review A</i> , 2002, 65, .	2.5	24
21	Bisimulation for quantum processes. , 2011, , .		22
22	A Flowchart Language for Quantum Programming. <i>IEEE Transactions on Software Engineering</i> , 2011, 37, 466-485.	5.6	20
23	Symbolic Bisimulation for Quantum Processes. <i>ACM Transactions on Computational Logic</i> , 2014, 15, 1-32.	0.9	19
24	Qubit Mapping Based on Subgraph Isomorphism and Filtered Depth-Limited Search. <i>IEEE Transactions on Computers</i> , 2021, 70, 1777-1788.	3.4	18
25	Boundary effect of deterministic dense coding. <i>Physical Review A</i> , 2006, 73, .	2.5	17
26	Model-Checking Linear-Time Properties of Quantum Systems. <i>ACM Transactions on Computational Logic</i> , 2014, 15, 1-31.	0.9	17
27	Catalyst-Assisted Probabilistic Entanglement Transformation. <i>IEEE Transactions on Information Theory</i> , 2005, 51, 1090-1101.	2.4	16
28	Bisimulation for Quantum Processes. <i>ACM Transactions on Programming Languages and Systems</i> , 2012, 34, 1-43.	2.1	16
29	When Equivalence and Bisimulation Join Forces in Probabilistic Automata. <i>Lecture Notes in Computer Science</i> , 2014, , 247-262.	1.3	16
30	Optimal dense coding with arbitrary pure entangled states. <i>Physical Review A</i> , 2006, 74, .	2.5	15
31	Open Bisimulation for Quantum Processes. <i>Lecture Notes in Computer Science</i> , 2012, , 119-133.	1.3	14
32	Unambiguous discrimination of mixed quantum states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 353, 300-306.	2.1	13
33	QPMC: A Model Checker for Quantum Programs and Protocols. <i>Lecture Notes in Computer Science</i> , 2015, , 265-272.	1.3	13
34	Reachability Probabilities of Quantum Markov Chains. <i>Lecture Notes in Computer Science</i> , 2013, , 334-348.	1.3	13
35	Probabilistic cloning and deleting of quantum states. <i>Physical Review A</i> , 2002, 65, .	2.5	12
36	Lower bound on inconclusive probability of unambiguous discrimination. <i>Physical Review A</i> , 2002, 66, .	2.5	12

#	ARTICLE	IF	CITATIONS
37	Asymptotic Perturbation Bounds for Probabilistic Model Checking with Empirically Determined Probability Parameters. IEEE Transactions on Software Engineering, 2016, 42, 623-639.	5.6	12
38	Condition and capability of quantum state separation. Physical Review A, 2005, 72, .	2.5	11
39	Commutativity of quantum weakest preconditions. Information Processing Letters, 2007, 104, 152-158.	0.6	11
40	Perturbation Analysis in Verification of Discrete-Time Markov Chains. Lecture Notes in Computer Science, 2014, , 218-233.	1.3	11
41	Approximate Equivalence Checking of Noisy Quantum Circuits. , 2021, , .		11
42	Quantum Hoare Logic with Classical Variables. ACM Transactions on Quantum Computing, 2021, 2, 1-43.	4.3	11
43	When catalysis is useful for probabilistic entanglement transformation. Physical Review A, 2004, 69, .	2.5	10
44	Trade-off between multiple-copy transformation and entanglement catalysis. Physical Review A, 2005, 71, .	2.5	10
45	On hybrid models of quantum finite automata. Journal of Computer and System Sciences, 2015, 81, 1144-1158.	1.2	10
46	Decomposition of quantum Markov chains and its applications. Journal of Computer and System Sciences, 2018, 95, 55-68.	1.2	10
47	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
48	A monte carlo tree search framework for quantum circuit transformation. , 2020, , .		10
49	Entanglement-assisted transformation is asymptotically equivalent to multiple-copy transformation. Physical Review A, 2005, 72, .	2.5	9
50	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
51	ProEva: Runtime Proactive Performance Evaluation Based on Continuous-Time Markov Chains. , 2017, , .		9
52	A proof system for disjoint parallel quantum programs. Theoretical Computer Science, 2022, 897, 164-184.	0.9	9
53	Predicate Transformer Semantics of Quantum Programs. , 0, , 311-360.		8
54	Quantum programming: From theories to implementations. Science Bulletin, 2012, 57, 1903-1909.	1.7	8

#	ARTICLE	IF	CITATIONS
55	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
56	Some Issues in Quantum Information Theory. Journal of Computer Science and Technology, 2006, 21, 776-789.	1.5	6
57	Relation between catalyst-assisted transformation and multiple-copy transformation for bipartite pure states. Physical Review A, 2006, 74, .	2.5	6
58	Bisimulation for quantum processes. ACM SIGPLAN Notices, 2011, 46, 523-534.	0.2	6
59	Optimal Policies for Quantum Markov Decision Processes. International Journal of Automation and Computing, 2021, 18, 410-421.	4.5	6
60	Efficiency of deterministic entanglement transformation. Physical Review A, 2005, 71, .	2.5	5
61	Partial recovery of quantum entanglement. IEEE Transactions on Information Theory, 2006, 52, 3080-3104.	2.4	5
62	A tighter bound for the self-stabilization time in Herman's algorithm. Information Processing Letters, 2013, 113, 486-488.	0.6	5
63	Model Checking Probabilistic Epistemic Logic for Probabilistic Multiagent Systems. , 2018, , .		5
64	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
65	Publisher'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
66	Quantum Circuit Transformation: A Monte Carlo Tree Search Framework. ACM Transactions on Design Automation of Electronic Systems, 2022, 27, 1-27.	2.6	4
67	Verification of Distributed Quantum Programs. ACM Transactions on Computational Logic, 2022, 23, 1-40.	0.9	4
68	Quantum Information-Flow Security: Noninterference and Access Control. , 2013, , .		3
69	Precisely deciding CSL formulas through approximate model checking for CTMCs. Journal of Computer and System Sciences, 2017, 89, 361-371.	1.2	3
70	Model-checking quantum systems. National Science Review, 2019, 6, 28-31.	9.5	3
71	Measuring the constrained reachability in quantum Markov chains. Acta Informatica, 2020, , 1.	0.5	3
72	Reachability Analysis of Recursive Quantum Markov Chains. Lecture Notes in Computer Science, 2013, , 385-396.	1.3	3

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73	Minimum guesswork discrimination between quantum states. Quantum Information and Computation, 2015, 15, 737-758.	0.3	3
74	Quingo: A Programming Framework for Heterogeneous Quantum-Classical Computing with NISQ Features. ACM Transactions on Quantum Computing, 2021, 2, 1-37.	4.3	3
75	Local cloning of two product states. Physical Review A, 2005, 72, .	2.5	2
76	A Discrete Event Simulation Based Production Line Optimization through Markov Decision Process. Communications in Computer and Information Science, 2013, , 385-390.	0.5	2
77	Supervised Learning Enhanced Quantum Circuit Transformation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 437-447.	2.7	2
78	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
79	Verify LTL with Fairness Assumptions Efficiently. , 2016, , .		1
80	Probabilistic bisimilarity as testing equivalence. Information and Computation, 2017, 257, 58-64.	0.7	1
81	Formal semantics of a classical-quantum language. Theoretical Computer Science, 2022, 913, 73-93.	0.9	1
82	Process algebra approach to reasoning about concurrent actions. Journal of Computer Science and Technology, 2004, 19, 364-373.	1.5	0
83	Publisher's Note: Distinguishing Arbitrary Multipartite Basis Unambiguously Using Local Operations and Classical Communication [Phys. Rev. Lett. <b>98</b>, 230502 (2007)]. Physical Review Letters, 2007, 99, .	7.8	0
84	A nearly optimal upper bound for the self-stabilization time in Herman's algorithm. Distributed Computing, 2015, 28, 233-244.	0.8	0
85	Bisimulations for probabilistic linear lambda calculi. , 2017, , .		0
86	Super-activating quantum memory with entanglement. Quantum Information and Computation, 2018, 18, 1115-1124.	0.3	0
87	Symbolic Reasoning About Quantum Circuits in Coq. Journal of Computer Science and Technology, 2021, 36, 1291-1306.	1.5	0