

# Shu Liang

## List of Publications by Year in descending order

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54  
papers

1,545  
citations

331670

21  
h-index

302126

39  
g-index

54  
all docs

54  
docs citations

54  
times ranked

764  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exponentially Convergent Algorithm Design for Constrained Distributed Optimization via Nonsmooth Approach. IEEE Transactions on Automatic Control, 2022, 67, 934-940.	5.7	17
2	Stochastic Adaptive Optimization With Dithers. IEEE Transactions on Automatic Control, 2022, 67, 189-202.	5.7	3
3	Exponentially convergent distributed Nash equilibrium seeking for constrained aggregative games. Autonomous Intelligent Systems, 2022, 2, 1.	3.1	4
4	Distributed Nash equilibrium seeking under quantization communication. Automatica, 2022, 141, 110318.	5.0	4
5	Distributed Dual Subgradient Algorithms With Iterate-Averaging Feedback for Convex Optimization With Coupled Constraints. IEEE Transactions on Cybernetics, 2021, 51, 2529-2539.	9.5	15
6	Distributed solving Sylvester equations with fractional order dynamics. Control Theory and Technology, 2021, 19, 249-259.	1.6	11
7	Fractional differential equation approach for convex optimization with convergence rate analysis. Optimization Letters, 2020, 14, 145-155.	1.6	16
8	Distributed Smooth Convex Optimization With Coupled Constraints. IEEE Transactions on Automatic Control, 2020, 65, 347-353.	5.7	43
9	Distributed Nash Equilibrium Seeking for Aggregative Games With Nonlinear Dynamics Under External Disturbances. IEEE Transactions on Cybernetics, 2020, 50, 4876-4885.	9.5	60
10	Dual Averaging Push for Distributed Convex Optimization Over Time-Varying Directed Graph. IEEE Transactions on Automatic Control, 2020, 65, 1785-1791.	5.7	27
11	Distributed continuous-time algorithm for nonsmooth optimal consensus without sharing local decision variables. Journal of the Franklin Institute, 2020, 357, 3585-3600.	3.4	3
12	Distributed Nash Equilibrium Seeking for Aggregative Games via Derivative Feedback. International Journal of Control, Automation and Systems, 2020, 18, 1075-1082.	2.7	5
13	Distributed sub-optimal resource allocation via a projected form of singular perturbation. Automatica, 2020, 121, 109180.	5.0	24
14	Distributed Computation of Linear Matrix Equations: An Optimization Perspective. IEEE Transactions on Automatic Control, 2019, 64, 1858-1873.	5.7	51
15	Routh table test for stability of commensurate fractional degree polynomials and their commensurate fractional order systems. Control Theory and Technology, 2019, 17, 297-306.	1.6	2
16	Distributed Stochastic Algorithm for Convex Optimization Over Directed Graphs. , 2019, , .		0
17	Exponential convergence of distributed primal-dual convex optimization algorithm without strong convexity. Automatica, 2019, 105, 298-306.	5.0	51
18	Generalized Nash equilibrium seeking strategy for distributed nonsmooth multi-cluster game. Automatica, 2019, 103, 20-26.	5.0	85

#	ARTICLE	IF	CITATIONS
19	Distributed Nash Equilibrium Seeking for Quadratic Games with Security. International Journal of Cooperative Information Systems, 2019, 28, 1950009.	0.8	0
20	Distributed Optimization Over Unbalanced Graph: Integration of Surplus-Based Method and Push-DIGing Method. , 2019, , .		1
21	Inverse Lyapunov Theorem for Linear Time Invariant Fractional Order Systems. Journal of Systems Science and Complexity, 2019, 32, 1544-1559.	2.8	3
22	Distributed quasi-monotone subgradient algorithm for nonsmooth convex optimization over directed graphs. Automatica, 2019, 101, 175-181.	5.0	21
23	Distributed algorithms for aggregative games of multiple heterogeneous Euler-Lagrange systems. Automatica, 2019, 99, 246-252.	5.0	73
24	Distributed Nonsmooth Optimization With Coupled Inequality Constraints via Modified Lagrangian Function. IEEE Transactions on Automatic Control, 2018, 63, 1753-1759.	5.7	109
25	Privacy Preservation for Distributed Nonsmooth Constrained Optimization Based on Pseudo-Subgradient. , 2018, , .		0
26	Distributed continuous-time algorithm for solving linear complementarity problems with exponential convergence. , 2018, , .		0
27	Distributed sub-optimal resource allocation over weight-balanced graph via singular perturbation. Automatica, 2018, 95, 222-228.	5.0	57
28	Distributed Continuous-Time Algorithms for Resource Allocation Problems Over Weight-Balanced Digraphs. IEEE Transactions on Cybernetics, 2018, 48, 3116-3125.	9.5	128
29	Distributed optimal resource allocation of second-order multiagent systems. International Journal of Robust and Nonlinear Control, 2018, 28, 4246-4260.	3.7	49
30	Robust fast controller design via nonlinear fractional differential equations. ISA Transactions, 2017, 69, 20-30.	5.7	13
31	Rational approximation of fractional order systems by vector fitting method. International Journal of Control, Automation and Systems, 2017, 15, 186-195.	2.7	24
32	A universal modified LMS algorithm with iteration order hybrid switching. ISA Transactions, 2017, 67, 67-75.	5.7	46
33	Distributed Nash equilibrium seeking for aggregative games with coupled constraints. Automatica, 2017, 85, 179-185.	5.0	179
34	Routh-type table test for zero distribution of polynomials with commensurate fractional and integer degrees. Journal of the Franklin Institute, 2017, 354, 83-104.	3.4	21
35	Distributed Variational Equilibrium Seeking of Multi-coalition Game via Variational Inequality Approach. IFAC-PapersOnLine, 2017, 50, 940-945.	0.9	4
36	Stability Criterion for Nonsmooth Systems and Nash Equilibrium Seeking via Projected Gradient Dynamics * *This work was supported by Beijing Natural Science Foundation (4152057), NSFC (61333001), Program 973 (2014CB845301/2/3), and the China Postdoctoral Science Foundation (No.2016M591272).. IFAC-PapersOnLine, 2017, 50, 6134-6139.	0.9	1

#	ARTICLE	IF	CITATIONS
37	Distributed Nash equilibrium seeking of a class of aggregative games. , 2017, , .		7
38	Chaos control of tethered satellite system by nonfeedback method. , 2016, , .		0
39	Lyapunov stability and generalized invariance principle for nonconvex differential inclusions. Control Theory and Technology, 2016, 14, 140-150.	1.6	7
40	Frequency distributed model of Caputo derivatives and robust stability of a class of multi-variable fractional-order neural networks with uncertainties. Neurocomputing, 2016, 202, 91-97.	5.9	14
41	Estimation of exact initial states of fractional order systems. Nonlinear Dynamics, 2016, 86, 2061-2070.	5.2	31
42	Rejection and tracking sinusoidal signals based on state-derivative feedback. , 2015, , .		0
43	Composite Model Reference Adaptive Control for a Class of Nonlinear Fractional Order Systems. , 2015, , .		1
44	Robust analysis and synthesis for a class of fractional order systems with coupling uncertainties. International Journal of Control, Automation and Systems, 2015, 13, 494-500.	2.7	8
45	Bounded real lemmas for fractional order systems. International Journal of Automation and Computing, 2015, 12, 192-198.	4.5	43
46	A novel algorithm on adaptive backstepping control of fractional order systems. Neurocomputing, 2015, 165, 395-402.	5.9	143
47	Representation and LQR of exact fractional order systems. , 2014, , .		6
48	Positive real lemmas for fractional order systems. , 2014, , .		6
49	General Output Feedback Stabilization for Fractional Order Systems: An LMI Approach. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	8
50	State space approximation for general fractional order dynamic systems. International Journal of Systems Science, 2014, 45, 2203-2212.	5.5	52
51	Two-DOF lifted LMI conditions for robust D-stability of polynomial matrix polytopes. International Journal of Control, Automation and Systems, 2013, 11, 636-642.	2.7	6
52	Subspace identification for fractional order Hammerstein systems based on instrumental variables. International Journal of Control, Automation and Systems, 2012, 10, 947-953.	2.7	62
53	Multi-agent network flows that solve linear complementarity problems. Kybernetika, 0, , 542-556.	0.0	0
54	Distributed optimization for multi-agent system over unbalanced graphs with linear convergence rate. Kybernetika, 0, , 559-577.	0.0	1