

Xue-Bin Liang

List of Publications by Year in descending order

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papers

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all docs

29
docs citations

29
times ranked

452
citing authors

#	ARTICLE	IF	CITATIONS
1	Orthogonal designs with maximal rates. IEEE Transactions on Information Theory, 2003, 49, 2468-2503.	2.4	303
2	A recurrent neural network for nonlinear optimization with a continuously differentiable objective function and bound constraints. IEEE Transactions on Neural Networks, 2000, 11, 1251-1262.	4.2	132
3	Unitary signal constellations for differential space-time modulation with two transmit antennas: parametric codes, optimal designs, and bounds. IEEE Transactions on Information Theory, 2002, 48, 2291-2322.	2.4	118
4	Global exponential stability of neural networks with globally Lipschitz continuous activations and its application to linear variational inequality problem. IEEE Transactions on Neural Networks, 2001, 12, 349-359.	4.2	80
5	On the nonexistence of rate-one generalized complex orthogonal designs. IEEE Transactions on Information Theory, 2003, 49, 2984-2989.	2.4	69
6	A high-rate orthogonal space-time block code. IEEE Communications Letters, 2003, 7, 222-223.	4.1	44
7	Matrix games in the multicast networks: maximum information flows with network switching. IEEE Transactions on Information Theory, 2006, 52, 2433-2466.	2.4	36
8	Global exponential stability of a class of neural circuits. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1999, 46, 748-751.	0.1	27
9	Comments on "New conditions for global stability of neural networks with application to linear and quadratic programming problems". IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 1099-1101.	0.1	22
10	A simple proof of a necessary and sufficient condition for absolute stability of symmetric neural networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 1010-1011.	0.1	22
11	Improved upper bound on step-size parameters of discrete-time recurrent neural networks for linear inequality and equation system. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 695-698.	0.1	19
12	Fast differential unitary space-time demodulation via square orthogonal designs. IEEE Transactions on Wireless Communications, 2005, 4, 1331-1336.	9.2	19
13	A recurrent neural network for nonlinear continuously differentiable optimization over a compact convex subset. IEEE Transactions on Neural Networks, 2001, 12, 1487-1490.	4.2	18
14	A comment on "On equilibria, stability, and instability of Hopfield neural networks" [and reply]. IEEE Transactions on Neural Networks, 2000, 11, 1506-1507.	4.2	14
15	An Algebraic, Analytic, and Algorithmic Investigation on the Capacity and Capacity-Achieving Input Probability Distributions of Finite-Input Finite-Output Discrete Memoryless Channels. IEEE Transactions on Information Theory, 2008, 54, 1003-1023.	2.4	14
16	A complex orthogonal space-time block code for 8 transmit antennas. IEEE Communications Letters, 2005, 9, 115-117.	4.1	11
17	A complete proof of global exponential convergence of a neural network for quadratic optimization with bound constraints. IEEE Transactions on Neural Networks, 2001, 12, 636-639.	4.2	5
18	A comment on "Comments on 'Necessary and sufficient condition for absolute stability of neural networks'". IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 594.	0.1	4

#	ARTICLE	IF	CITATIONS
19	Qualitative analysis of a recurrent neural network for nonlinear continuously differentiable convex minimization over a nonempty closed convex subset. IEEE Transactions on Neural Networks, 2001, 12, 1521-1525.	4.2	4
20	On the analysis of a recurrent neural network for solving nonlinear monotone variational inequality problems. IEEE Transactions on Neural Networks, 2002, 13, 481-486.	4.2	4
21	CTH04-5: A New Iterative Algorithm for Calculating the Capacity of Discrete Memoryless Channels. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	3
22	Some unitary signal constellations for differential space-time modulation. , 2000, , .		2
23	Some results on the stability of analog neural networks with time delays. , 0, , .		1
24	A class of two by two unitary signal constellations for differential space-time modulation. , 0, , .		1
25	A fast algorithm for computing the capacity of discrete memoryless channels. , 2010, , .		1
26	On an open problem related to the strict local minima of multilinear objective functions. IEEE Transactions on Automatic Control, 1997, 42, 1564-1566.	5.7	0
27	On the Switching Gap of Ahlswede&Cai&Li&Yeung's Single-Source Multicast Network. , 2006, , .		0
28	Correction to "An Algebraic, Analytic, and Algorithmic Investigation on the Capacity and Capacity-Achieving Input Probability Distributions of Finite-Input"Finite-Output Discrete Memoryless Channels" [Mar 08 1003-1023]. IEEE Transactions on Information Theory, 2008, 54, 4395-4395.	2.4	0
29	A note on Fanos inequality. , 2011, , .		0