Mihailo R JovanoviÄ

List of Publications by Year
in descending order

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162 papers	4,857 citations	172457 29 h-index	118850 62 g-index
163 all docs	163 docs citations	163 times ranked	2354 citing authors

#	Article	IF	Citations
1	Transient Growth of Accelerated Optimization Algorithms. IEEE Transactions on Automatic Control, 2023, 68, 1823-1830.	5.7	3
2	Computing Stabilizing Feedback Gains via a Model-Free Policy Gradient Method. , 2023, 7, 407-412.		2
3	Convergence and Sample Complexity of Gradient Methods for the Model-Free Linearâ€“Quadratic Regulator Problem. IEEE Transactions on Automatic Control, 2022, 67, 2435-2450.	5.7	29
4	A Second Order Primal-Dual Method for Nonsmooth Convex Composite Optimization. IEEE Transactions on Automatic Control, 2022, 67, 4061-4076.	5.7	5
5	Understanding viscoelastic flow instabilities: Oldroyd-B and beyond. Journal of Non-Newtonian Fluid Mechanics, 2022, 302, 104742.	2.4	31
6	Robustness of Accelerated First-Order Algorithms for Strongly Convex Optimization Problems. IEEE Transactions on Automatic Control, 2021, 66, 2480-2495.	5.7	19
7	On the Linear Convergence of Random Search for Discrete-Time LQR. , 2021, 5, 989-994.		24
8	From Bypass Transition to Flow Control and Data-Driven Turbulence Modeling: An Inputâ€“Output Viewpoint. Annual Review of Fluid Mechanics, 2021, 53, 311-345.	25.0	70
9	Proximal gradient flow and Douglasâ€“Rachford splitting dynamics: Global exponential stability via integral quadratic constraints. Automatica, 2021, 123, 109311.	5.0	17
10	Model-based design of riblets for turbulent drag reduction. Journal of Fluid Mechanics, 2021, 906, .	3.4	35
11	Model-Free Linear Quadratic Regulator. Studies in Systems, Decision and Control, 2021, , 173-185.	1.0	0
12	Localized stress amplification in inertialess channel flows of viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2021, 291, 104514.	2.4	6
13	Well-conditioned ultraspherical and spectral integration methods for resolvent analysis of channel flows of Newtonian and viscoelastic fluids. Journal of Computational Physics, 2021, 439, 110241.	3.8	3
14	Vehicular Chains. , 2021, , 2418-2425.		0
15	On the lack of gradient domination for linear quadratic Gaussian problems with incomplete state information. , 2021, , .		6
16	Proximal Algorithms for Large-Scale Statistical Modeling and Sensor/Actuator Selection. IEEE Transactions on Automatic Control, 2020, 65, 3441-3456.	5.7	21
17	Random search for learning the linear quadratic regulator. , 2020, , .		5
18	A frequency domain analysis of compressible linearized Navier-Stokes equations in a hypersonic compression ramp flow. , 2020, , .		3

#	Article	IF	Citations
19	Boundary layer receptivity analysis via the algebraic Lyapunov equation. , 2020, , .		1
20	Transient growth analysis of oblique shock-wave/boundary-layer interactions at Mach 5.92. Physical Review Fluids, 2020, 5, .	2.5	10
21	Transient growth of accelerated first-order methods. , 2020, , .		2
22	Global exponential stability of the Douglas-Rachford splitting dynamics. IFAC-PapersOnLine, 2020, 53, 7350-7354.	0.9	0
23	Reattachment streaks in hypersonic compression ramp flow: an inputâ€“output analysis. Journal of Fluid Mechanics, 2019, 880, 113-135.	3.4	71
24	Drag reduction in turbulent channel flow over spatially periodic surfaces. , 2019, , .		1
25	Global exponential convergence of gradient methods over the nonconvex landscape of the linear quadratic regulator. , 2019, , .		24
26	Performance of noisy Nesterov's accelerated method for strongly convex optimization problems. , 2019, , .		6
27	Global exponential stability of primal-dual gradient flow dynamics based on the proximal augmented Lagrangian. , 2019, , .		13
28	Data-driven proximal algorithms for the design of structured optimal feedback gains. , 2019, , .		1
29	Relating global and local stochastic receptivity analysis of boundary layer flows. , 2019, , .		0
30	The Proximal Augmented Lagrangian Method for Nonsmooth Composite Optimization. IEEE Transactions on Automatic Control, 2019, 64, 2861-2868.	5.7	74
31	Structured Decentralized Control of Positive Systems With Applications to Combination Drug Therapy and Leader Selection in Directed Networks. IEEE Transactions on Control of Network Systems, 2019, 6, 352-362.	3.7	13
32	Modeling mode interactions in boundary layer flows via the parabolized Floquet equations. Physical Review Fluids, 2019, 4, .	2.5	10
33	Stochastic receptivity analysis of boundary layer flow. Physical Review Fluids, 2019, 4, .	2.5	30
34	Topology Design for Stochastically Forced Consensus Networks. IEEE Transactions on Control of Network Systems, 2018, 5, 1075-1086.	3.7	21
35	On the Exponential Convergence Rate of Proximal Gradient Flow Algorithms. , 2018, , .		6
36	Variance Amplification of Accelerated First-Order Algorithms for Strongly Convex Quadratic Optimization Problems. , 2018, , .		8

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37	An Exponentially Convergent Primal-Dual Algorithm for Nonsmooth Composite Minimization. , 2018, , .		7
38	Topology Identification via Growing a Chow-Liu Tree Network. , 2018, , .		1
39	Optimal Sensor Selection via Proximal Optimization Algorithms. , 2018, , .		11
40	A primal-dual laplacian gradient flow dynamics for distributed resource allocation problems. , 2018, , .		12
41	Input-Output Analysis of Shock Boundary Layer Interaction. , 2018, , .		18
42	Transient growth in oblique shock wave/laminar boundary layer interactions at Mach 5.92. , 2018, , .		0
43	Amplification of localized body forces in channel flows of viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2018, 260, 40-53.	2.4	8
44	Low-complexity modeling of mode interactions in boundary layer flows. , 2018, , .		0
45	Distributed proximal augmented Lagrangian method for nonsmooth composite optimization. , 2018, , .		5
46	Spatio-temporal impulse responses in channel flow of viscoelastic fluids. , 2018, , .		0
47	On the stability of gradient flow dynamics for a rank-one matrix approximation problem. , 2018, , .		2
48	Simulation and stability analysis of oblique shock-wave/boundary-layer interactions at Mach 5.92. Physical Review Fluids, 2018, 3, .	2.5	54
49	Colour of turbulence. Journal of Fluid Mechanics, 2017, 812, 636-680.	3.4	103
50	Study of Trip-Induced Hypersonic Boundary Layer Transition. , 2017, , .		6
51	Optimal spatial growth of streaks in oblique shock/boundary layer interaction. , 2017, , .		10
52	Sparsity-promoting optimal control of systems with symmetries, consensus and synchronization networks. Systems and Control Letters, 2017, 103, 1-8.	2.3	16
53	The effect of sponge layers on global stability analysis of Blasius boundary layer flow. , 2017, , .		4
54	Edge addition in directed consensus networks. , 2017, , .		7

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55	Low-complexity stochastic modeling of spatially-evolving flows. , 2017, , .		2
56	Low-Complexity Modeling of Partially Available Second-Order Statistics: Theory and an Efficient Matrix Completion Algorithm. IEEE Transactions on Automatic Control, 2017, 62, 1368-1383.	5.7	20
57	State and noise covariance estimation in power grids using limited nodal PMUs. , 2017, , .		2
58	A second order primal-dual algorithm for nonsmooth convex composite optimization. , 2017, , .		4
59	Distributed design of optimal structured feedback gains. , 2017, , .		7
60	Structured covariance completion via proximal algorithms. , 2017, , .		0
61	Topology identification and design of distributed integral action in power networks. , 2016, , .		9
62	On the convexity of a class of structured optimal control problems for positive systems. , 2016, , .		8
63	Convex reformulation of a robust optimal control problem for a class of positive systems. , 2016, , .		4
64	Sparsity-promoting dynamic mode decomposition for systems with inputs. , 2016, , .		8
65	Perturbation of system dynamics and the covariance completion problem. , 2016, , .		12
66	The use of the r* heuristic in covariance completion problems. , 2016, , .		6
67	Leader selection in directed networks. , 2016, , .		4
68	Input-output analysis of high-speed axisymmetric isothermal jet noise. Physics of Fluids, 2016, 28, .	4.0	109
69	Customized algorithms for growing connected resistive networks. IFAC-PapersOnLine, 2016, 49, 968-973.	0.9	2
70	Sparsity-promoting optimal control of systems with invariances and symmetries. IFAC-PapersOnLine, 2016, 49, 636-641.	0.9	5
71	Topology identification of undirected consensus networks via sparse inverse covariance estimation. , 2016, , .		25
72	Controller architectures: Tradeoffs between performance and structure. European Journal of Control, 2016, 30, 76-91.	2.6	64

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73	A method of multipliers algorithm for sparsity-promoting optimal control. , 2016, , .		9
74	Interaction of an oblique shock with a transitional Mach 5.92 boundary layer. , 2016, , .		6
75	Input-output analysis of heated axisymmetric turbulent jets. , 2016, , .		1
76	Input-Output Analysis and Decentralized Optimal Control of Inter-Area Oscillations in Power Systems. IEEE Transactions on Power Systems, 2016, 31, 2434-2444.	6.5	90
77	Design of optimal coupling gains for synchronization of nonlinear oscillators. , 2015, , .		2
78	Convex synthesis of symmetric modifications to linear systems. , 2015, , .		8
79	Decentralized optimal control of inter-area oscillations in bulk power systems. , 2015, , .		7
80	Alternating direction optimization algorithms for covariance completion problems. , 2015, , .		10
81	An interior point method for growing connected resistive networks. , 2015, , .		14
82	An ADMM algorithm for optimal sensor and actuator selection. , 2014, , .		92
83	Self-sustaining turbulence in a restricted nonlinear model of plane Couette flow. Physics of Fluids, 2014, 26, 105112.	4.0	48
84	On the properties of optimal weak links in consensus networks. , 2014, , .		4
85	On the design of optimal structured and sparse feedback gains via sequential convex programming. , 2014, , .		40
86	Vehicular Chains. , 2014, , 1-10.		0
87	Completion of partially known turbulent flow statistics. , 2014, , .		7
88	Sparsity-promoting dynamic mode decomposition. Physics of Fluids, 2014, 26, .	4.0	595
89	Algorithms for Leader Selection in Stochastically Forced Consensus Networks. IEEE Transactions on Automatic Control, 2014, 59, 1789-1802.	5.7	106
90	Sparsity-Promoting Optimal Wide-Area Control of Power Networks. IEEE Transactions on Power Systems, 2014, 29, 2281-2291.	6.5	179

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91	Sparsity-promoting optimal control of spatially-invariant systems. , 2014, , .		8
92	On optimal link creation for facilitation of consensus in social networks. , 2014, , .		10
93	Sparsity-promoting optimal control of consensus and synchronization networks. , 2014, , .		19
94	Design of Optimal Sparse Interconnection Graphs for Synchronization of Oscillator Networks. IEEE Transactions on Automatic Control, 2014, 59, 2457-2462.	5.7	74
95	Computation of frequency responses for linear time-invariant PDEs on a compact interval. Journal of Computational Physics, 2013, 250, 246-269.	3.8	5
96	Synchronization of diffusively-coupled limit cycle oscillators. Automatica, 2013, 49, 3613-3622.	5.0	15
97	Worst-case amplification of disturbances in inertialess Couette flow of viscoelastic fluids. Journal of Fluid Mechanics, 2013, 723, 232-263.	3.4	30
98	Design of Optimal Sparse Feedback Gains via the Alternating Direction Method of Multipliers. IEEE Transactions on Automatic Control, 2013, 58, 2426-2431.	5.7	351
99	On new characterizations of social influence in social networks. , 2013, , .		6
100	Model-based analysis of polymer drag reduction in a turbulent channel flow. , 2013, , .		2
101	Sparse and optimal wide-area damping control in power networks. , 2013, , .		27
102	An ADMM algorithm for matrix completion of partially known state covariances. , 2013, , .		7
103	Synchronization of limit cycle oscillations in diffusively-coupled systems. , 2013, , .		4
104	State covariances and the matrix completion problem. , 2013, , .		8
105	Sparse quadratic regulator. , 2013, , .		6
106	Model-based design of transverse wall oscillations for turbulent drag reduction. Journal of Fluid Mechanics, 2012, 707, 205-240.	3.4	91
107	Slow-fast decomposition of an inertialess flow of viscoelastic fluids. , 2012, , .		0
108	Turbulent drag reduction by streamwise traveling waves. , 2012, , .		0

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109	Sparse feedback synthesis via the alternating direction method of multipliers. , 2012, , .		25
110	Performance of leader-follower networks in directed trees and lattices. , 2012, , .		7
111	Turbulent drag reduction by transverse wall oscillations. , 2012, , .		0
112	On the optimal synchronization of oscillator networks via sparse interconnection graphs. , 2012, , .		8
113	On the optimal dissemination of information in social networks. , 2012, , .		14
114	On identifying sparse representations of consensus networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 305-310.	0.4	13
115	Identification of sparse communication graphs in consensus networks. , 2012, , .		20
116	Coherence in Large-Scale Networks: Dimension-Dependent Limitations of Local Feedback. IEEE Transactions on Automatic Control, 2012, 57, 2235-2249.	5.7	327
117	Optimal Control of Vehicular Formations With Nearest Neighbor Interactions. IEEE Transactions on Automatic Control, 2012, 57, 2203-2218.	5.7	150
118	Augmented Lagrangian Approach to Design of Structured Optimal State Feedback Gains. IEEE Transactions on Automatic Control, 2011, 56, 2923-2929.	5.7	146
119	Worst-case amplification of disturbances in inertialess flows of viscoelastic fluids. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14458-14463.	0.4	1
120	Design of optimal controllers for spatially invariant systems with finite communication speed. Automatica, 2011, 47, 880-889.	5.0	22
121	Nonmodal amplification of stochastic disturbances in strongly elastic channel flows. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 755-778.	2.4	46
122	Sparsity-promoting optimal control for a class of distributed systems. , 2011, , .		94
123	Spatially-localized optimal control of transition to turbulence. , 2011, , .		0
124	Computation of the frequency responses for distributed systems with one spatial variable. , 2011, , .		4
125	Algorithms for leader selection in large dynamical networks: Noise-corrupted leaders. , 2011, , .		41
126	Algorithms for leader selection in large dynamical networks: Noise-free leaders. , 2011, , .		42

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127	Controlling the onset of turbulence by streamwise travelling waves. Part 1. Receptivity analysis. Journal of Fluid Mechanics, 2010, 663, 70-99.	3.4	65
128	Controlling the onset of turbulence by streamwise travelling waves. Part 2. Direct numerical simulation. Journal of Fluid Mechanics, 2010, 663, 100-119.	3.4	52
129	On the optimality of localised distributed controllers. International Journal of Systems, Control and Communications, 2010, 2, 82.	0.3	14
130	On the optimal localized feedback design for multi-vehicle systems. , 2010, , .		3
131	Preventing transition to turbulence using streamwise traveling waves: direct numerical simulations. , 2010, , .		1
132	On the optimal localized feedback design for vehicular platoons. , 2010, , .		1
133	Preventing transition to turbulence using streamwise traveling waves: theoretical analysis. , 2010, , .		1
134	Transient response of velocity fluctuations in inertialess channel flows of viscoelastic fluids. , 2010, , .		0
135	On the dual decomposition of linear quadratic optimal control problems for vehicular formations. , 2010, , .		5
136	Transient growth without inertia. Physics of Fluids, 2010, 22, .	4.0	52
137	On the optimal design of structured feedback gains for interconnected systems. , 2009, , .		42
138	Synthesis of H<inf>2</inf> optimal static structured controllers: Primal and dual formulations. , 2009, , .		1
139	Damping mechanisms in dynamic mode atomic force microscopy applications. , 2009, , .		6
140	Variance amplification in channel flows of strongly elastic polymer solutions. , 2009, , .		1
141	Frequency responses of streamwise-constant perturbations in channel flows of Oldroyd-B fluids. Journal of Fluid Mechanics, 2009, 625, 411-434.	3.4	31
142	Least-Squares Approximation of Structured Covariances. IEEE Transactions on Automatic Control, 2009, 54, 1643-1648.	5.7	14
143	A Passivity-Based Approach to Stability of Spatially Distributed Systrems With a Cyclic Interconnection Structure. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2009, , .	0.1	0
144	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="script">H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> norm of linear time-periodic systems: A perturbation analysis. Automatica, 2008, 44, 2090-2098.	5.0	18

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145	On the peaking phenomenon in the control of vehicular platoons. Systems and Control Letters, 2008, 57, 528-537.	2.3	16
146	A Passivity-Based Approach to Stability of Spatially Distributed Systems With a Cyclic Interconnection Structure. IEEE Transactions on Automatic Control, 2008, 53, 75-86.	5.7	38
147	Frequency Analysis and Norms of Distributed Spatially Periodic Systems. IEEE Transactions on Automatic Control, 2008, 53, 2266-2279.	5.7	26
148	Energy amplification in channel flows of viscoelastic fluids. Journal of Fluid Mechanics, 2008, 601, 407-424.	3.4	50
149	Effect of topological dimension on rigidity of vehicle formations: Fundamental limitations of local feedback. , 2008, , .		35
150	Perturbation analysis of eigenvalues of a class of self-adjoint operators. , 2008, , .		0
151	Turbulence suppression in channel flows by small amplitude transverse wall oscillations. Physics of Fluids, 2008, 20, .	4.0	38
152	Energy amplification in a parallel Blasius boundary layer flow subject to free-stream turbulence. , 2008, , .		0
153	On the state-space design of optimal controllers for distributed systems with finite communication speed. , 2008, , .		6
154	Remarks on computing the H<inf>2</inf> norm of incompressible fluids using descriptor state-space formulation. , 2008, , .		0
155	Input-output analysis of the 2D/3C model in channel flows of viscoelastic fluids. , 2008, , .		0
156	Remarks on the stability of spatially distributed systems with a cyclic interconnection structure. Proceedings of the American Control Conference, 2007, , .	0.0	7
157	On the least-squares approximation of structured covariances. Proceedings of the American Control Conference, 2007, , .	0.0	0
158	On using the streamwise traveling waves for variance suppression in channel flows. Proceedings of the American Control Conference, 2007, , .	0.0	2
159	Architecture Induced by Distributed Backstepping Design. IEEE Transactions on Automatic Control, 2007, 52, 108-113.	5.7	11
160	A formula for frequency responses of distributed systems with one spatial variable. Systems and Control Letters, 2006, 55, 27-37.	2.3	12
161	Transition control using an array of streamwise vortices. , 2006, , .		5
162	Componentwise energy amplification in channel flows. Journal of Fluid Mechanics, 2005, 534, 145-183.	3.4	338