

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	Sparsity-promoting dynamic mode decomposition. <i>Physics of Fluids</i> , 2014, 26, .	4.0	595
2	Design of Optimal Sparse Feedback Gains via the Alternating Direction Method of Multipliers. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 2426-2431.	5.7	351
3	Componentwise energy amplification in channel flows. <i>Journal of Fluid Mechanics</i> , 2005, 534, 145-183.	3.4	338
4	Coherence in Large-Scale Networks: Dimension-Dependent Limitations of Local Feedback. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 2235-2249.	5.7	327
5	Sparsity-Promoting Optimal Wide-Area Control of Power Networks. <i>IEEE Transactions on Power Systems</i> , 2014, 29, 2281-2291.	6.5	179
6	Optimal Control of Vehicular Formations With Nearest Neighbor Interactions. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 2203-2218.	5.7	150
7	Augmented Lagrangian Approach to Design of Structured Optimal State Feedback Gains. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 2923-2929.	5.7	146
8	Input-output analysis of high-speed axisymmetric isothermal jet noise. <i>Physics of Fluids</i> , 2016, 28, .	4.0	109
9	Algorithms for Leader Selection in Stochastically Forced Consensus Networks. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 1789-1802.	5.7	106
10	Colour of turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 812, 636-680.	3.4	103
11	Sparsity-promoting optimal control for a class of distributed systems. , 2011, , .		94
12	An ADMM algorithm for optimal sensor and actuator selection. , 2014, , .		92
13	Model-based design of transverse wall oscillations for turbulent drag reduction. <i>Journal of Fluid Mechanics</i> , 2012, 707, 205-240.	3.4	91
14	Input-Output Analysis and Decentralized Optimal Control of Inter-Area Oscillations in Power Systems. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 2434-2444.	6.5	90
15	Design of Optimal Sparse Interconnection Graphs for Synchronization of Oscillator Networks. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 2457-2462.	5.7	74
16	The Proximal Augmented Lagrangian Method for Nonsmooth Composite Optimization. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 2861-2868.	5.7	74
17	Reattachment streaks in hypersonic compression ramp flow: an input–output analysis. <i>Journal of Fluid Mechanics</i> , 2019, 880, 113-135.	3.4	71
18	From Bypass Transition to Flow Control and Data-Driven Turbulence Modeling: An Input–Output Viewpoint. <i>Annual Review of Fluid Mechanics</i> , 2021, 53, 311-345.	25.0	70

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19	Controlling the onset of turbulence by streamwise travelling waves. Part 1. Receptivity analysis. <i>Journal of Fluid Mechanics</i> , 2010, 663, 70-99.	3.4	65
20	Controller architectures: Tradeoffs between performance and structure. <i>European Journal of Control</i> , 2016, 30, 76-91.	2.6	64
21	Simulation and stability analysis of oblique shock-wave/boundary-layer interactions at Mach 5.92. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	54
22	Controlling the onset of turbulence by streamwise travelling waves. Part 2. Direct numerical simulation. <i>Journal of Fluid Mechanics</i> , 2010, 663, 100-119.	3.4	52
23	Transient growth without inertia. <i>Physics of Fluids</i> , 2010, 22, .	4.0	52
24	Energy amplification in channel flows of viscoelastic fluids. <i>Journal of Fluid Mechanics</i> , 2008, 601, 407-424.	3.4	50
25	Self-sustaining turbulence in a restricted nonlinear model of plane Couette flow. <i>Physics of Fluids</i> , 2014, 26, 105112.	4.0	48
26	Nonmodal amplification of stochastic disturbances in strongly elastic channel flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 755-778.	2.4	46
27	On the optimal design of structured feedback gains for interconnected systems. , 2009, , .		42
28	Algorithms for leader selection in large dynamical networks: Noise-free leaders. , 2011, , .		42
29	Algorithms for leader selection in large dynamical networks: Noise-corrupted leaders. , 2011, , .		41
30	On the design of optimal structured and sparse feedback gains via sequential convex programming. , 2014, , .		40
31	A Passivity-Based Approach to Stability of Spatially Distributed Systems With a Cyclic Interconnection Structure. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 75-86.	5.7	38
32	Turbulence suppression in channel flows by small amplitude transverse wall oscillations. <i>Physics of Fluids</i> , 2008, 20, .	4.0	38
33	Effect of topological dimension on rigidity of vehicle formations: Fundamental limitations of local feedback. , 2008, , .		35
34	Model-based design of riblets for turbulent drag reduction. <i>Journal of Fluid Mechanics</i> , 2021, 906, .	3.4	35
35	Frequency responses of streamwise-constant perturbations in channel flows of Oldroyd-B fluids. <i>Journal of Fluid Mechanics</i> , 2009, 625, 411-434.	3.4	31
36	Understanding viscoelastic flow instabilities: Oldroyd-B and beyond. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2022, 302, 104742.	2.4	31

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37	Worst-case amplification of disturbances in inertialess Couette flow of viscoelastic fluids. Journal of Fluid Mechanics, 2013, 723, 232-263.	3.4	30
38	Stochastic receptivity analysis of boundary layer flow. Physical Review Fluids, 2019, 4, .	2.5	30
39	Convergence and Sample Complexity of Gradient Methods for the Model-Free Linear Quadratic Regulator Problem. IEEE Transactions on Automatic Control, 2022, 67, 2435-2450.	5.7	29
40	Sparse and optimal wide-area damping control in power networks. , 2013, , .		27
41	Frequency Analysis and Norms of Distributed Spatially Periodic Systems. IEEE Transactions on Automatic Control, 2008, 53, 2266-2279.	5.7	26
42	Sparse feedback synthesis via the alternating direction method of multipliers. , 2012, , .		25
43	Topology identification of undirected consensus networks via sparse inverse covariance estimation. , 2016, , .		25
44	Global exponential convergence of gradient methods over the nonconvex landscape of the linear quadratic regulator. , 2019, , .		24
45	On the Linear Convergence of Random Search for Discrete-Time LQR. , 2021, 5, 989-994.		24
46	Design of optimal controllers for spatially invariant systems with finite communication speed. Automatica, 2011, 47, 880-889.	5.0	22
47	Topology Design for Stochastically Forced Consensus Networks. IEEE Transactions on Control of Network Systems, 2018, 5, 1075-1086.	3.7	21
48	Proximal Algorithms for Large-Scale Statistical Modeling and Sensor/Actuator Selection. IEEE Transactions on Automatic Control, 2020, 65, 3441-3456.	5.7	21
49	Identification of sparse communication graphs in consensus networks. , 2012, , .		20
50	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
51	Sparsity-promoting optimal control of consensus and synchronization networks. , 2014, , .		19
52	Robustness of Accelerated First-Order Algorithms for Strongly Convex Optimization Problems. IEEE Transactions on Automatic Control, 2021, 66, 2480-2495.	5.7	19
53	$\ H\ _{\infty}$ norm of linear time-periodic systems: A perturbation analysis. Automatica. 2008. 44. 2090-2098.	5.0	18
54	Input-Output Analysis of Shock Boundary Layer Interaction. , 2018, , .		18

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55	Proximal gradient flow and Douglas-Rachford splitting dynamics: Global exponential stability via integral quadratic constraints. <i>Automatica</i> , 2021, 123, 109311.	5.0	17
56	On the peaking phenomenon in the control of vehicular platoons. <i>Systems and Control Letters</i> , 2008, 57, 528-537.	2.3	16
57	Sparsity-promoting optimal control of systems with symmetries, consensus and synchronization networks. <i>Systems and Control Letters</i> , 2017, 103, 1-8.	2.3	16
58	Synchronization of diffusively-coupled limit cycle oscillators. <i>Automatica</i> , 2013, 49, 3613-3622.	5.0	15
59	Least-Squares Approximation of Structured Covariances. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 1643-1648.	5.7	14
60	On the optimality of localised distributed controllers. <i>International Journal of Systems, Control and Communications</i> , 2010, 2, 82.	0.3	14
61	On the optimal dissemination of information in social networks. , 2012, , .		14
62	An interior point method for growing connected resistive networks. , 2015, , .		14
63	On identifying sparse representations of consensus networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 305-310.	0.4	13
64	Global exponential stability of primal-dual gradient flow dynamics based on the proximal augmented Lagrangian. , 2019, , .		13
65	Structured Decentralized Control of Positive Systems With Applications to Combination Drug Therapy and Leader Selection in Directed Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2019, 6, 352-362.	3.7	13
66	A formula for frequency responses of distributed systems with one spatial variable. <i>Systems and Control Letters</i> , 2006, 55, 27-37.	2.3	12
67	Perturbation of system dynamics and the covariance completion problem. , 2016, , .		12
68	A primal-dual laplacian gradient flow dynamics for distributed resource allocation problems. , 2018, , .		12
69	Architecture Induced by Distributed Backstepping Design. <i>IEEE Transactions on Automatic Control</i> , 2007, 52, 108-113.	5.7	11
70	Optimal Sensor Selection via Proximal Optimization Algorithms. , 2018, , .		11
71	On optimal link creation for facilitation of consensus in social networks. , 2014, , .		10
72	Alternating direction optimization algorithms for covariance completion problems. , 2015, , .		10

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73	Optimal spatial growth of streaks in oblique shock/boundary layer interaction. , 2017, , .		10
74	Modeling mode interactions in boundary layer flows via the parabolized Floquet equations. Physical Review Fluids, 2019, 4, .	2.5	10
75	Transient growth analysis of oblique shock-wave/boundary-layer interactions at Mach 5.92. Physical Review Fluids, 2020, 5, .	2.5	10
76	Topology identification and design of distributed integral action in power networks. , 2016, , .		9
77	A method of multipliers algorithm for sparsity-promoting optimal control. , 2016, , .		9
78	On the optimal synchronization of oscillator networks via sparse interconnection graphs. , 2012, , .		8
79	State covariances and the matrix completion problem. , 2013, , .		8
80	Sparsity-promoting optimal control of spatially-invariant systems. , 2014, , .		8
81	Convex synthesis of symmetric modifications to linear systems. , 2015, , .		8
82	On the convexity of a class of structured optimal control problems for positive systems. , 2016, , .		8
83	Sparsity-promoting dynamic mode decomposition for systems with inputs. , 2016, , .		8
84	Variance Amplification of Accelerated First-Order Algorithms for Strongly Convex Quadratic Optimization Problems. , 2018, , .		8
85	Amplification of localized body forces in channel flows of viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2018, 260, 40-53.	2.4	8
86	Remarks on the stability of spatially distributed systems with a cyclic interconnection structure. Proceedings of the American Control Conference, 2007, , .	0.0	7
87	Performance of leader-follower networks in directed trees and lattices. , 2012, , .		7
88	An ADMM algorithm for matrix completion of partially known state covariances. , 2013, , .		7
89	Completion of partially known turbulent flow statistics. , 2014, , .		7
90	Decentralized optimal control of inter-area oscillations in bulk power systems. , 2015, , .		7

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91	Edge addition in directed consensus networks. , 2017, , .		7
92	Distributed design of optimal structured feedback gains. , 2017, , .		7
93	An Exponentially Convergent Primal-Dual Algorithm for Nonsmooth Composite Minimization. , 2018, , .		7
94	On the state-space design of optimal controllers for distributed systems with finite communication speed. , 2008, , .		6
95	Damping mechanisms in dynamic mode atomic force microscopy applications. , 2009, , .		6
96	On new characterizations of social influence in social networks. , 2013, , .		6
97	Sparse quadratic regulator. , 2013, , .		6
98	The use of the r^* heuristic in covariance completion problems. , 2016, , .		6
99	Interaction of an oblique shock with a transitional Mach 5.92 boundary layer. , 2016, , .		6
100	Study of Trip-Induced Hypersonic Boundary Layer Transition. , 2017, , .		6
101	On the Exponential Convergence Rate of Proximal Gradient Flow Algorithms. , 2018, , .		6
102	Performance of noisy Nesterov's accelerated method for strongly convex optimization problems. , 2019, , .		6
103	Localized stress amplification in inertialess channel flows of viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2021, 291, 104514.	2.4	6
104	On the lack of gradient domination for linear quadratic Gaussian problems with incomplete state information. , 2021, , .		6
105	Transition control using an array of streamwise vortices. , 2006, , .		5
106	On the dual decomposition of linear quadratic optimal control problems for vehicular formations. , 2010, , .		5
107	Computation of frequency responses for linear time-invariant PDEs on a compact interval. Journal of Computational Physics, 2013, 250, 246-269.	3.8	5
108	Sparsity-promoting optimal control of systems with invariances and symmetries. IFAC-PapersOnLine, 2016, 49, 636-641.	0.9	5

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109	Distributed proximal augmented Lagrangian method for nonsmooth composite optimization. , 2018, , .		5
110	Random search for learning the linear quadratic regulator. , 2020, , .		5
111	A Second Order Primal-Dual Method for Nonsmooth Convex Composite Optimization. IEEE Transactions on Automatic Control, 2022, 67, 4061-4076.	5.7	5
112	Computation of the frequency responses for distributed systems with one spatial variable. , 2011, , .		4
113	Synchronization of limit cycle oscillations in diffusively-coupled systems. , 2013, , .		4
114	On the properties of optimal weak links in consensus networks. , 2014, , .		4
115	Convex reformulation of a robust optimal control problem for a class of positive systems. , 2016, , .		4
116	Leader selection in directed networks. , 2016, , .		4
117	The effect of sponge layers on global stability analysis of Blasius boundary layer flow. , 2017, , .		4
118	A second order primal-dual algorithm for nonsmooth convex composite optimization. , 2017, , .		4
119	On the optimal localized feedback design for multi-vehicle systems. , 2010, , .		3
120	A frequency domain analysis of compressible linearized Navier-Stokes equations in a hypersonic compression ramp flow. , 2020, , .		3
121	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
122	Transient Growth of Accelerated Optimization Algorithms. IEEE Transactions on Automatic Control, 2023, 68, 1823-1830.	5.7	3
123	On using the streamwise traveling waves for variance suppression in channel flows. Proceedings of the American Control Conference, 2007, , .	0.0	2
124	Model-based analysis of polymer drag reduction in a turbulent channel flow. , 2013, , .		2
125	Design of optimal coupling gains for synchronization of nonlinear oscillators. , 2015, , .		2
126	Customized algorithms for growing connected resistive networks. IFAC-PapersOnLine, 2016, 49, 968-973.	0.9	2

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127	Low-complexity stochastic modeling of spatially-evolving flows. , 2017, , .		2
128	State and noise covariance estimation in power grids using limited nodal PMUs. , 2017, , .		2
129	On the stability of gradient flow dynamics for a rank-one matrix approximation problem. , 2018, , .		2
130	Transient growth of accelerated first-order methods. , 2020, , .		2
131	Computing Stabilizing Feedback Gains via a Model-Free Policy Gradient Method. , 2023, 7, 407-412.		2
132	Synthesis of H_2 optimal static structured controllers: Primal and dual formulations. , 2009, , .		1
133	Variance amplification in channel flows of strongly elastic polymer solutions. , 2009, , .		1
134	Preventing transition to turbulence using streamwise traveling waves: direct numerical simulations. , 2010, , .		1
135	On the optimal localized feedback design for vehicular platoons. , 2010, , .		1
136	Preventing transition to turbulence using streamwise traveling waves: theoretical analysis. , 2010, , .		1
137	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
138	Input-output analysis of heated axisymmetric turbulent jets. , 2016, , .		1
139	Topology Identification via Growing a Chow-Liu Tree Network. , 2018, , .		1
140	Drag reduction in turbulent channel flow over spatially periodic surfaces. , 2019, , .		1
141	Data-driven proximal algorithms for the design of structured optimal feedback gains. , 2019, , .		1
142	Boundary layer receptivity analysis via the algebraic Lyapunov equation. , 2020, , .		1
143	On the least-squares approximation of structured covariances. Proceedings of the American Control Conference, 2007, , .	0.0	0
144	Perturbation analysis of eigenvalues of a class of self-adjoint operators. , 2008, , .		0

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145	Energy amplification in a parallel Blasius boundary layer flow subject to free-stream turbulence. , 2008, , .		0
146	Remarks on computing the H_2 norm of incompressible fluids using descriptor state-space formulation. , 2008, , .		0
147	Input-output analysis of the 2D/3C model in channel flows of viscoelastic fluids. , 2008, , .		0
148	Transient response of velocity fluctuations in inertialess channel flows of viscoelastic fluids. , 2010, , .		0
149	Spatially-localized optimal control of transition to turbulence. , 2011, , .		0
150	Slow-fast decomposition of an inertialess flow of viscoelastic fluids. , 2012, , .		0
151	Turbulent drag reduction by streamwise traveling waves. , 2012, , .		0
152	Turbulent drag reduction by transverse wall oscillations. , 2012, , .		0
153	Vehicular Chains. , 2014, , 1-10.		0
154	Structured covariance completion via proximal algorithms. , 2017, , .		0
155	Transient growth in oblique shock wave/laminar boundary layer interactions at Mach 5.92. , 2018, , .		0
156	Low-complexity modeling of mode interactions in boundary layer flows. , 2018, , .		0
157	Spatio-temporal impulse responses in channel flow of viscoelastic fluids. , 2018, , .		0
158	Relating global and local stochastic receptivity analysis of boundary layer flows. , 2019, , .		0
159	Model-Free Linear Quadratic Regulator. Studies in Systems, Decision and Control, 2021, , 173-185.	1.0	0
160	Vehicular Chains. , 2021, , 2418-2425.		0
161	Global exponential stability of the Douglas-Rachford splitting dynamics. IFAC-PapersOnLine, 2020, 53, 7350-7354.	0.9	0
162	A Passivity-Based Approach to Stability of Spatially Distributed Systems With a Cyclic Interconnection Structure. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2009, , .	0.1	0