Stevan S DubljeviÄ

List of Publications by Year
in descending order

159	1,677	304602	345118
papers	citations	22 h-index	36 g-index

160	160	160	867
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Discrete output regulator design for linear distributed parameter systems. International Journal of Control, 2022, 95, 603-619.	1.2	3
2	Transfer Learning for Dynamic Feature Extraction Using Variational Bayesian Inference. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5524-5535.	4.0	11
3	Dissipative Boundary Control for an Adiabatic Plug Flow Reactor With Mass Recycle. IEEE Access, 2022, 10, 30939-30948.	2.6	2
4	Output regulation for a first-order hyperbolic PIDE with state and sensor delays. European Journal of Control, 2022, 65, 100643.	1.6	4
5	Output Regulation of Linearized Column Froth Flotation Process. IEEE Transactions on Control Systems Technology, 2021, 29, 249-262.	3.2	6
6	Boundary observer design for a class of semi-linear hyperbolic PDE systems with recycle loop. International Journal of Control, 2021, 94, 1089-1101.	1.2	7
7	Discrete-time model-based output regulation of fluid flow systems. European Journal of Control, 2021, 57, 1-13.	1.6	2
8	Economic model predictive control for transport-reaction systems with target profiles. Control Engineering Practice, 2021, 107, 104684.	3.2	8
9	Model predictive control of a non-isothermal axial dispersion tubular reactor with recycle. Computers and Chemical Engineering, 2021, 145, 107159.	2.0	7
10	Hyperbolicity of reactionâ€transport processes. AICHE Journal, 2021, 67, e17135.	1.8	1
11	Robust tracking control of column froth flotation process with an unknown disturbance. AICHE Journal, 2021, 67, e17233.	1.8	1
12	Discrete-time modeling and output regulation of gas pipeline networks. Journal of Process Control, 2021, 98, 30-40.	1.7	7
13	Model Predictive Controller Design for Pulp Digester. , 2021, , .		0
14	Robust Model Predictive Control for a system of coupled PDEs-ODEs. , 2021, , .		0
15	Output feedback compensation to state and measurement delays for a first-order hyperbolic PIDE with recycle. Automatica, 2021, 128, 109565.	3.0	8
16	Adaptive Fault Estimation for Hyperbolic PDEs. Mathematics, 2021, 9, 1613.	1.1	2
17	A Simulation Study of the Role of Mechanical Stretch in Arrhythmogenesis during Cardiac Alternans. Biophysical Journal, 2021, 120, 109-121.	0.2	5
18	Output regulation boundary control of first-order coupled linear MIMO hyperbolic PIDE systems. International Journal of Control, 2020, 93, 410-423.	1.2	4

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19	A CAST-based causal analysis of the catastrophic underground pipeline gas explosion in Taiwan. Engineering Failure Analysis, 2020, 108, 104343.	1.8	23
20	Robust state estimation for a class of hyperbolic systems with boundary sensor uncertain parameter. , 2020, , .		0
21	Model Predictive Control of Jacket Tubular Reactors with a Reversible Exothermic Reaction. Industrial & Engineering Chemistry Research, 2020, 59, 18921-18936.	1.8	4
22	Linear model predictive control for a cascade ODE-PDE system. , 2020, , .		2
23	Discrete Output Regulator Design for a Coupled ODE-PDE System. , 2020, , .		0
24	Discrete Output Regulator Design for the Linearized Saintâ€“Venantâ€“Exner Model. Processes, 2020, 8, 915.	1.3	3
25	Development of a swimming robot for pipeline leak detection. , 2020, , .		0
26	Robust State Estimation for Positive Real Infinite- Dimensional Systems With Actuator and Sensor Faults. IEEE Systems Journal, 2020, , 1-8.	2.9	1
27	Linear Model Predictive Control for a Coupled CSTR and Axial Dispersion Tubular Reactor with Recycle. Mathematics, 2020, 8, 711.	1.1	2
28	Model predictive control for regular linear systems. Automatica, 2020, 119, 109066.	3.0	17
29	Fast model predictive control based on sensitivity analysis strategy. IET Control Theory and Applications, 2020, 14, 708-716.	1.2	1
30	Linear Model Predictive Control for Time Delay Systems*. , 2020, , .		0
31	Internal Model Controller Design of Linearized Ginzburg-Landau Equation. IFAC-PapersOnLine, 2020, 53, 7728-7733.	0.5	0
32	Observer canonical form based robust fault detection and estimation for hyperbolic spatiotemporal dynamic systems. IET Cyber-Systems and Robotics, 2020, 2, 168-180.	1.1	2
33	Single-step full-state feedback control design for nonlinear hyperbolic PDEs. International Journal of Control, 2019, 92, 2484-2498.	1.2	6
34	Effects of mechano-electrical feedback on the onset of alternans: A computational study. Chaos, 2019, 29, 063126.	1.0	9
35	Fault detection and estimation for a class of PIDE systems based on boundary observers. International Journal of Robust and Nonlinear Control, 2019, 29, 5867-5885.	2.1	17
36	Discrete-Time Kalman Filter Design for Linear Infinite-Dimensional Systems. Processes, 2019, 7, 451.	1.3	4

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37	Hyperbolicity of the heat equation. IFAC-PapersOnLine, 2019, 52, 63-67.	0.5	4
38	Dissipative boundary PI controller for an adiabatic plug-flow reactor with mass recycle. IFAC-PapersOnLine, 2019, 52, 68-73.	0.5	4
39	Observer and filter design for linear transport-reaction systems. European Journal of Control, 2019, 49, 26-43.	1.6	12
40	Analysis on accident-causing factors of urban buried gas pipeline network by combining DEMATEL, ISM and BN methods. Journal of Loss Prevention in the Process Industries, 2019, 61, 49-57.	1.7	77
41	Heat exchanger system boundary regulation. AICHE Journal, 2019, 65, e16623.	1.8	6
42	Dynamical Analysis and Model Predictive Control of an Auto-Thermal Reactor. Industrial & Engineering Chemistry Research, 2019, 58, 13686-13698.	1.8	0
43	Actuator fault detection and estimation for linear hyperbolic PDEs with Fredholm integrals. , 2019, , .		2
44	Discrete Kalman Filter Design for Kuramoto-Sivashinsky Equation. , 2019, , .		0
45	Discrete Output Regulator Design for a Mono-tubular Reactor with Recycle. , 2019, , .		2
46	Model Predictive Control ofÂGinzburg-Landau Equation. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2019, , 75-90.	0.2	0
47	Long range pipeline leak detection and localization using discrete observer and support vector machine. AICHE Journal, 2019, 65, e16532.	1.8	29
48	Finite-dimensional regulators for a class of regular hyperbolic PDE systems. International Journal of Control, 2019, 92, 778-795.	1.2	4
49	Modeling and stability analysis of a class of convective distributed thermodynamic systems. , 2019, , .		1
50	Optimal tracking control for a class of boundary controlled linear coupled hyperbolic PDE systems: Application to plug flow reactor with temperature output feedback. European Journal of Control, 2018, 39, 21-34.	1.6	7
51	Receding horizon optimal operation and control of a solarâ€thermal district heating system. AICHE Journal, 2018, 64, 1217-1233.	1.8	3
52	Actuator Fault Detection and Estimation for a Class of Hyperbolic PDEs Using Filter-Based Observer. , 2018, , .		0
53	PI-control design of continuum models of production systems governed by scalar hyperbolic partial differential equation. IFAC-PapersOnLine, 2018, 51, 584-589.	0.5	2
54	Three-Phases Dynamic Modelling of Column Flotation Process. IFAC-PapersOnLine, 2018, 51, 99-104.	0.5	10

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55	Mechanical perturbation control of cardiac alternans. Physical Review E, 2018, 97, 052407.	0.8	4
56	Model Predictive Control of Mineral Column Flotation Process. Mathematics, 2018, 6, 100.	1.1	5
57	Linear Model Predictive Control for SchrÃ¶dinger Equation. , 2018, , .		2
58	State and output feedback regulator designs for distributed parameter systems. , 2018, , .		0
59	Pipeline Leak Detection Swimming Robot Design and Deployment. , 2018, , .		4
60	Modelling and control of solar thermal system with borehole seasonal storage. Renewable Energy, 2017, 100, 114-128.	4.3	16
61	Model predictive control of solar thermal system with borehole seasonal storage. Computers and Chemical Engineering, 2017, 101, 59-72.	2.0	17
62	State feedback output regulation for a boundary controlled linear 2 Ã— 2 hyperbolic system. , 2017, , .		0
63	Output regulation for a class of linear boundary controlled first-order hyperbolic PIDE systems. Automatica, 2017, 85, 43-52.	3.0	47
64	Optimal control of a distributed solar collector field. , 2017, , .		1
65	Output and error feedback regulator designs for linear infinite-dimensional systems. Automatica, 2017, 83, 170-178.	3.0	52
66	Linear model predictive control for transportâ€reaction processes. AICHE Journal, 2017, 63, 2644-2659.	1.8	35
67	Model predictive control of coupled hyperbolic PDEs and ODEs. , 2016, , .		0
68	Output feedback regulator for infinite-dimensional systems. , 2016, , .		0
69	Finite-dimensional output feedback regulator for a mono-tubular heat exchanger process. IFAC-PapersOnLine, 2016, 49, 54-59.	0.5	6
70	Characteristics-based model predictive control of selective catalytic reduction in diesel-powered vehicles. Journal of Process Control, 2016, 47, 98-110.	1.7	17
71	Port-Hamiltonian Representation and Discretization of Undamped Wave Equation System. IFAC-PapersOnLine, 2016, 49, 309-314.	0.5	2
72	The state feedback servo-regulator for countercurrent heat-exchanger system modelled by system of hyperbolic PDEs. European Journal of Control, 2016, 29, 51-61.	1.6	25

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73	Output regulation problem for a class of regular hyperbolic systems. International Journal of Control, 2016, 89, 113-127.	1.2	31
74	Single-step feedback linearization with assignable dynamics for hyperbolic PDE. , 2015, , .		0
75	Optimal State Estimation for Linear Systems with State Constraints. IFAC-PapersOnLine, 2015, 48, 153-157.	0.5	0
76	Dynamic Modeling and Real-Time Monitoring of Froth Flotation. Minerals (Basel, Switzerland), 2015, 5, 570-591.	0.8	16
77	State feedback output regulation for a class of hyperbolic PDE systems. , 2015, , .		1
78	Model predictive control of selective catalytic reduction in diesel-powered vehicles. , 2015, , .		2
79	Constrained optimal boundary state estimation for dissipative systems. , 2015, , .		0
80	PDE backstepping control of one-dimensional heat equation with time-varying domain. Automatica, 2015, 54, 41-48.	3.0	36
81	Control of cardiac alternans in an electromechanical model of cardiac tissue. Computers in Biology and Medicine, 2015, 63, 108-117.	3.9	10
82	Optimal boundary control of coupled parabolic PDEâ€“ODE systems using infinite-dimensional representation. Journal of Process Control, 2015, 33, 102-111.	1.7	29
83	Explicit/multi-parametric model predictive control of dissipative distributed parameter systems. , 2015, , .		0
84	Optimal continuous-time state estimation for linear finite and infinite-dimensional chemical process systems with state constraints. Journal of Process Control, 2015, 35, 127-142.	1.7	9
85	Backstepping output-feedback control of moving boundary parabolic PDEs. European Journal of Control, 2015, 21, 27-35.	1.6	29
86	Lowâ€order optimal regulation of parabolic PDEs with timeâ€dependent domain. AICHE Journal, 2015, 61, 494-502.	1.8	1
87	Distributed temperature estimation in Czochralski crystal growth process. , 2014, , .		1
88	Linear matrix inequalities (LMIs) based observer and controller design for second order parabolic PDE. , 2014, , .		0
89	Model predictive control of the cardiac amplitude of alternans PDE. , 2014, , .		0
90	Control of cardiac alternans by mechanical and electrical feedback. Physical Review E, 2014, 90, 012706.	0.8	11

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91	Temperature distribution reconstruction in Czochralski crystal growth process. AICHE Journal, 2014, 60, 2839-2852.	1.8	7
92	Dynamical Analysis of Melt Flow in the Bridgman Process. Industrial & Engineering Chemistry Research, 2014, 53, 17811-17817.	1.8	1
93	Backstepping control of PDEs with time-varying domain. , 2014, , .		1
94	Model predictive temperature tracking in crystal growth processes. Computers and Chemical Engineering, 2014, 71, 323-330.	2.0	8
95	Model predictive control of axial dispersion chemical reactor. Journal of Process Control, 2014, 24, 1671-1690.	1.7	19
96	Linear matrix inequalities (LMIs) observer and controller design synthesis for parabolic PDE. European Journal of Control, 2014, 20, 227-236.	1.6	20
97	Boundary optimal control of coupled parabolic PDE-ODE systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1574-1579.	0.4	1
98	Boundary optimal (LQ) control of coupled hyperbolic PDEs and ODEs. Automatica, 2013, 49, 526-533.	3.0	60
99	Boundary model predictive control of thin film thickness modelled by the Kuramotoâ€“Sivashinsky equation with input and state constraints. Journal of Process Control, 2013, 23, 1362-1379.	1.7	9
100	Boundary control synthesis for a lithiumâ€ion battery thermal regulation problem. AICHE Journal, 2013, 59, 3782-3796.	1.8	6
101	Control of parabolic PDEs with time-varying spatial domain: Czochralski crystal growth process. International Journal of Control, 2013, 86, 1467-1478.	1.2	21
102	Optimal control of an advection-dominated catalytic fixed-bed reactor with catalyst deactivation. Journal of Process Control, 2013, 23, 1508-1514.	1.7	18
103	Orderâ€reduction of parabolic PDEs with timeâ€varying domain using empirical eigenfunctions. AICHE Journal, 2013, 59, 4142-4150.	1.8	33
104	Boundary moving horizon estimator for approximate models of parabolic PDEs. , 2013, , .		0
105	Crystal radius and temperature regulation in Czochralski crystallization process. , 2013, , .		7
106	Transient Fluid Temperature Estimation in Wellbores. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 108-113.	0.4	4
107	Computation of empirical eigenfunctions of parabolic PDEs with non-trivial time-varying domain. , 2013, , .		0
108	Aspects of controllability and observability for time-varying PDE systems. , 2012, , .		1

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109	LQ-boundary control of a diffusion-convection-reaction system. International Journal of Control, 2012, 85, 171-181.	1.2	22
110	Boundary model predictive control of thin film thickness modelled by Kuramoto-Sivashinsky equation with input and state constraints. , 2012, , .		0
111	Computation of empirical eigenfunctions of parabolic PDEs with time-varying domain. , 2012, , .		3
112	Optimal LQ-Control of a PDAE Model of a Catalytic Distillation Process1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 75-80.	0.4	0
113	Analysis of Melt Flow Mixing in Czochralski Crystal Growth Process. Industrial & Engineering Chemistry Research, 2012, 51, 8675-8683.	1.8	5
114	Modeling and Dynamical Analysis of the Wave Equation of Sucker-Rod Pumping System. , 2012, , .		4
115	Lipid production optimization and optimal control of heterotrophic microalgae fed-batch bioreactor. Chemical Engineering Science, 2012, 84, 619-627.	1.9	43
116	Infinite-dimensional LQ optimal control of a dimethyl ether (DME) catalytic distillation column. Journal of Process Control, 2012, 22, 1655-1669.	1.7	9
117	Optimal boundary control of a diffusionâ€“convection-reaction PDE model with time-dependent spatial domain: Czochralski crystal growth process. Chemical Engineering Science, 2012, 67, 111-119.	1.9	41
118	Cardiac alternans annihilation by distributed mechano-electric feedback (MEF). , 2011, 2011, 259-62.		1
119	LQR control of an infinite dimensional time-varying CSTR-PFR system*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14446-14451.	0.4	3
120	Linear quadratic optimal boundary control of a diffusion-convection-reaction system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12048-12053.	0.4	3
121	Optimal control of convectionâ€“diffusion process with time-varying spatial domain: Czochralski crystal growth. Journal of Process Control, 2011, 21, 1361-1369.	1.7	15
122	Distributed optimal control of a Dimethyl Ether (DME) catalytic distillation column. , 2011, , .		1
123	Application of optimal boundary control to reaction-diffusion system with time-varying spatial domain. , 2011, , .		2
124	Model predictive control formulation for a class of time-varying linear parabolic PDEs. , 2011, , .		1
125	Model predictive control of Czochralski crystal growth process. , 2011, , .		1
126	Optimal control of a class of linear nonautonomous parabolic PDE via two-parameter semigroup representation. , 2011, , .		1

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127	Model predictive control of Kuramotoâ€“Sivashinsky equation with state and input constraints. Chemical Engineering Science, 2010, 65, 4388-4396.	1.9	22
128	Boundary model predictive control of Kuramotoâ€“Sivashinsky equation with input and state constraints. Computers and Chemical Engineering, 2010, 34, 1655-1661.	2.0	25
129	Optimal control of transport-reaction system with time varying spatial domain. , 2010, , .		0
130	Multiscale optimal control of transport-reaction system with time varying spatial domain. , 2010, , .		1
131	Discrete mechanics optimal control (DMOC) and model predictive control (MPC) synthesis for reaction-diffusion process system with moving actuator. , 2010, , .		8
132	Boundary model predictive control of Kuramoto-Sivashinsky equation with input and point state constraints. , 2009, , .		0
133	Optimal boundary control of Kuramoto-Sivashinsky equation. , 2009, , .		1
134	Optimal boundary control of cardiac alternans. International Journal of Robust and Nonlinear Control, 2009, 19, 135-150.	2.1	11
135	Studies on feedback control of cardiac alternans. Computers and Chemical Engineering, 2008, 32, 2086-2098.	2.0	24
136	Optimal mechano-electric stabilization of cardiac alternans. Chemical Engineering Science, 2008, 63, 5425-5433.	1.9	7
137	Constraints-Driven Optimal Actuation Policies for Diffusion-Reaction Processes with Collocated Actuators and Sensors. Industrial & Engineering Chemistry Research, 2008, 47, 105-115.	1.8	5
138	Optimal mechano-electric stabilization of cardiac alternans. , 2008, , .		0
139	Mechano-electric suppression of cardiac alternans. , 2008, , .		1
140	Constraints driven optimal actuation policies for diffusion processes with collocated actuators and sensors. Proceedings of the American Control Conference, 2007, , .	0.0	0
141	Optimal boundary control of cardiac alternans. Proceedings of the American Control Conference, 2007, , .	0.0	0
142	Pacing Real-Time Spatiotemporal Control of Cardiac Alternans. Proceedings of the American Control Conference, 2007, , .	0.0	6
143	Predictive output feedback control of parabolic PDEs. , 2006, , .		5
144	Boundary predictive control of parabolic PDEs. , 2006, , .		6

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145	Predictive Control of Infinite Dimensional Systems. , 2006, , .		1
146	Predictive Output Feedback Control of Parabolic Partial Differential Equations (PDEs). Industrial & Engineering Chemistry Research, 2006, 45, 8421-8429.	1.8	28
147	Predictive control of parabolic PDEs with state and control constraints. International Journal of Robust and Nonlinear Control, 2006, 16, 749-772.	2.1	109
148	Predictive control of parabolic PDEs with boundary control actuation. Chemical Engineering Science, 2006, 61, 6239-6248.	1.9	96
149	Predictive control of transport-reaction processes. Computers and Chemical Engineering, 2005, 29, 2335-2345.	2.0	109
150	Model predictive control of diffusion-reaction processes. Chemical Industry and Chemical Engineering Quarterly, 2005, 11, 10-18.	0.4	1
151	Distributed nonlinear control of diffusionâ€“reaction processes. International Journal of Robust and Nonlinear Control, 2004, 14, 133-156.	2.1	44
152	Application of non-linear discretetime feedback regulators with assignable closed-loop dynamics. Hemijska Industrija, 2003, 57, 120-125.	0.3	0
153	A new Lyapunov design approach for nonlinear systems based on Zubov's method. Automatica, 2002, 38, 1999-2007.	3.0	45
154	Nonlinear discrete-time state feedback regulators with assignable closed-loop dynamics. , 2001, , .		0
155	Predictive control of diffusion-reaction processes. , 0, , .		1
156	LQ (optimal) control of hyperbolic PDAEs. International Journal of Control, 0, , 1-11.	1.2	1
157	Dynamic Modelling and Model Predictive Control of a Continuous Pulp Digester. AICHE Journal, 0, , e17534.	1.8	5
158	Model Predictive Control of a Secondâ€•order Hyperbolic transportâ€•reaction process. AICHE Journal, 0, , .	1.8	0
159	Quo Vadis Advanced Chemical Process Control. Canadian Journal of Chemical Engineering, 0, , .	0.9	3