Michael A Demetriou

List of Publications by Year
in descending order

262 papers	6,705 citations	94269 37 h-index	71532 76 g-index
266 all docs	266 docs citations	266 times ranked	5037 citing authors

#	ARTICLE	IF	CITATIONS
1	Negative regulation of T-cell activation and autoimmunity by Mgat5 N-glycosylation. Nature, 2001, 409, 733-739.	13.7	813
2	Complex N-Glycan Number and Degree of Branching Cooperate to Regulate Cell Proliferation and Differentiation. Cell, 2007, 129, 123-134.	13.5	777
3	Metabolism, Cell Surface Organization, and Disease. Cell, 2009, 139, 1229-1241.	13.5	400
4	Incipient fault diagnosis of dynamical systems using online approximators. IEEE Transactions on Automatic Control, 1998, 43, 1612-1617.	3.6	211
5	Guidance of Mobile Actuator-Plus-Sensor Networks for Improved Control and Estimation of Distributed Parameter Systems. IEEE Transactions on Automatic Control, 2010, 55, 1570-1584.	3.6	204
6	Adaptive Regulation at the Cell Surface by *N*‐Glycosylation. Traffic, 2009, 10, 1569-1578.	1.3	188
7	Glycolysis and glutaminolysis cooperatively control T cell function by limiting metabolite supply to N-glycosylation. ELife, 2017, 6, .	2.8	148
8	Genetics and the environment converge to dysregulate N-glycosylation in multiple sclerosis. Nature Communications, 2011, 2, 334.	5.8	142
9	*N*-Acetylglucosaminyltransferase V (Mgat5)-Mediated *N*-Glycosylation Negatively Regulates Th1 Cytokine Production by T Cells. Journal of Immunology, 2004, 173, 7200-7208.	0.4	140
10	Control of T Cell-mediated Autoimmunity by Metabolite Flux to N-Glycan Biosynthesis. Journal of Biological Chemistry, 2007, 282, 20027-20035.	1.6	122
11	Lateral Compartmentalization of T Cell Receptor Versus CD45 by Galectin-N-Glycan Binding and Microfilaments Coordinate Basal and Activation Signaling. Journal of Biological Chemistry, 2007, 282, 35361-35372.	1.6	117
12	Model Reference Adaptive Control of Distributed Parameter Systems. SIAM Journal on Control and Optimization, 1998, 36, 33-81.	1.1	116
13	T‐cell growth, cell surface organization, and the galectin‐glycoprotein lattice. Immunological Reviews, 2009, 230, 232-246.	2.8	114
14	Design of consensus and adaptive consensus filters for distributed parameter systems. Automatica, 2010, 46, 300-311.	3.0	104
15	N-Acetylglucosamine Inhibits T-helper 1 (Th1)/T-helper 17 (Th17) Cell Responses and Treats Experimental Autoimmune Encephalomyelitis. Journal of Biological Chemistry, 2011, 286, 40133-40141.	1.6	97
16	N-Glycan Processing Deficiency Promotes Spontaneous Inflammatory Demyelination and Neurodegeneration. Journal of Biological Chemistry, 2007, 282, 33725-33734.	1.6	91
17	Estimation of Spatially Distributed Processes Using Mobile Spatially Distributed Sensor Network. SIAM Journal on Control and Optimization, 2009, 48, 266-291.	1.1	88
18	Robust detection and accommodation of incipient component and actuator faults in nonlinear distributed processes. AICHE Journal, 2008, 54, 2651-2662.	1.8	87

#	ARTICLE	IF	CITATIONS
19	On-Line Parameter Estimation for Infinite-Dimensional Dynamical Systems. SIAM Journal on Control and Optimization, 1997, 35, 678-713.	1.1	80
20	A computational scheme for the optimal sensor/actuator placement of flexible structures using spatial <mml:math altimg="si14.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.els. Mechanical Syst	4.4	77
21	Natural second-order observers for second-order distributed parameter systems. Systems and Control Letters, 2004, 51, 225-234.	1.3	72
22	Optimal actuator/sensor placement for linear parabolic PDEs using spatialH2norm. Chemical Engineering Science, 2006, 61, 7351-7367.	1.9	72
23	Optimal actuator/sensor location for active noise regulator and tracking control problems. Journal of Computational and Applied Mathematics, 2000, 114, 137-158.	1.1	67
24	Golgi self-correction generates bioequivalent glycans to preserve cellular homeostasis. ELife, 2016, 5, .	2.8	67
25	Synchronization and consensus controllers for a class of parabolic distributed parameter systems. Systems and Control Letters, 2013, 62, 70-76.	1.3	64
26	Adaptive Control of 2-D PDEs Using Mobile Collocated Actuator/Sensor Pairs With Augmented Vehicle Dynamics. IEEE Transactions on Automatic Control, 2012, 57, 2979-2993.	3.6	56
27	A Model-Based Fault Detection and Diagnosis Scheme for Distributed Parameter Systems: A Learning Systems Approach. ESAIM - Control, Optimisation and Calculus of Variations, 2002, 7, 43-67.	0.7	51
28	A new actuator activation policy for performance enhancement of controlled diffusion processes. Automatica, 2004, 40, 415-421.	3.0	51
29	Coupled Controls-Computational Fluids Approach for the Estimation of the Concentration From a Moving Gaseous Source in a 2-D Domain With a Lyapunov-Guided Sensing Aerial Vehicle. IEEE Transactions on Control Systems Technology, 2014, 22, 853-867.	3.2	51
30	T Cell Receptor Signaling Co-regulates Multiple Golgi Genes to Enhance N-Glycan Branching. Journal of Biological Chemistry, 2009, 284, 32454-32461.	1.6	50
31	On the persistence of excitation in the adaptive estimation of distributed parameter systems. IEEE Transactions on Automatic Control, 1994, 39, 1117-1123.	3.6	48
32	N-glycosylation bidirectionally extends the boundaries of thymocyte positive selection by decoupling Lck from Ca2+ signaling. Nature Immunology, 2014, 15, 1038-1045.	7.0	48
33	Adaptive identification of second-order distributed parameter systems. Inverse Problems, 1994, 10, 261-294.	1.0	47
34	Pathogenesis of multiple sclerosis via environmental and genetic dysregulation of N-glycosylation. Seminars in Immunopathology, 2012, 34, 415-424.	2.8	46
35	Optimal control of switched distributed parameter systems with spatially scheduled actuators. Automatica, 2009, 45, 312-323.	3.0	45
36	Electricity in the air: Insights from two decades of advanced control research and experimental flight testing of airborne wind energy systems. Annual Reviews in Control, 2021, 52, 330-357.	4.4	44

#	Article	IF	Citations
37	Adaptive Monitoring and Accommodation of Nonlinear Actuator Faults in Positive Real Infinite Dimensional Systems. IEEE Transactions on Automatic Control, 2007, 52, 2332-2338.	3.6	40
38	On-line robust parameter identification for parabolic systems. International Journal of Adaptive Control and Signal Processing, 2001, 15, 615-631.	2.3	37
39	Using BBH_{2}-Control Performance Metrics for the Optimal Actuator Location of Distributed Parameter Systems. IEEE Transactions on Automatic Control, 2015, 60, 450-462.	3.6	37
40	Cell Surface N-Glycans Influence Electrophysiological Properties and Fate Potential of Neural Stem Cells. Stem Cell Reports, 2018, 11, 869-882.	2.3	35
41	Using unknown input observers for robust adaptive fault detection in vector second-order systems. Mechanical Systems and Signal Processing, 2005, 19, 291-309.	4.4	33
42	Natural consensus filters for second order infinite dimensional systems. Systems and Control Letters, 2009, 58, 826-833.	1.3	33
43	Interleukinâ€2, Interleukinâ€7, T cellâ€mediated autoimmunity, and Nâ€glycosylation. Annals of the New York Academy of Sciences, 2012, 1253, 49-57.	1.8	33
44	Scanning actuator guidance scheme in a 1-d thermal manufacturing process. IEEE Transactions on Control Systems Technology, 2003, 11, 757-764.	3.2	30
45	A new integrated output feedback controller synthesis and collocated actuator/sensor scheduling framework for distributed parameter processes. Computers and Chemical Engineering, 2005, 29, 867-876.	2.0	30
46	State estimation of spatially distributed processes using mobile sensing agents. , 2011, , .		30
47	Adaptive techniques for the MRAC, adaptive parameter identification, and onâ€line fault monitoring and accommodation for a class of positive real infinite dimensional systems. International Journal of Adaptive Control and Signal Processing, 2009, 23, 193-215.	2.3	29
48	Hypomorphic MGAT5 polymorphisms promote multiple sclerosis cooperatively with MGAT1 and interleukin-2 and 7 receptor variants. Journal of Neuroimmunology, 2013, 256, 71-76.	1.1	29
49	N-acetylglucosamine drives myelination by triggering oligodendrocyte precursor cell differentiation. Journal of Biological Chemistry, 2020, 295, 17413-17424.	1.6	29
50	Micropulsed Plasma Thrusters for Attitude Control of a Low-Earth-Orbiting CubeSat. Journal of Spacecraft and Rockets, 2016, 53, 57-73.	1.3	28
51	Design of adaptive output feedback synchronizing controllers for networked PDEs with boundary and in-domain structured perturbations and disturbances. Automatica, 2018, 90, 220-229.	3.0	28
52	Integrated Actuatorâ€"Sensor Placement and Hybrid Controller Design of Flexible Structures Under Worst Case Spatiotemporal Disturbance Variations. Journal of Intelligent Material Systems and Structures, 2004, 15, 901-921.	1.4	25
53	Dynamic online nonlinear robust detection and accommodation of incipient component faults for nonlinear dissipative distributed processes. International Journal of Robust and Nonlinear Control, 2012, 22, 3-23.	2.1	25
54	Adaptive Attitude Synchronization Control of Spacecraft Formation with Adaptive Synchronization Gains. Journal of Guidance, Control, and Dynamics, 2014, 37, 1644-1651.	1.6	25

#	ARTICLE	IF	CITATIONS
55	Manipulating Cell Surface Glycoproteins by Targeting N-Glycanâ€"Galectin Interactions. Methods in Enzymology, 2010, 480, 245-266.	0.4	24
56	N-Glycans Differentially Regulate Eosinophil and Neutrophil Recruitment during Allergic Airway Inflammation*. Journal of Biological Chemistry, 2011, 286, 38231-38241.	1.6	23
57	An H/sup âˆž//MinMax periodic control in a two-dimensional structural acoustic model with piezoceramic actuators. IEEE Transactions on Automatic Control, 1996, 41, 943-959.	3.6	22
58	Process estimation and moving source detection in 2-D diffusion processes by scheduling of sensor networks. Proceedings of the American Control Conference, 2007, , .	0.0	22
59	<i>Mgat5</i> Deficiency in T Cells and Experimental Autoimmune Encephalomyelitis. ISRN Neurology, 2011, 2011, 1-6.	1.5	21
60	Model reference adaptive control of structurally perturbed second-order distributed parameter systems. International Journal of Robust and Nonlinear Control, 2006, 16, 773-799.	2.1	20
61	Electric Propulsion and Controller Design for Drag-Free Spacecraft Operation. Journal of Spacecraft and Rockets, 2008, 45, 1303-1315.	1.3	20
62	Adaptation and Optimization of Synchronization Gains in the Regulation Control of Networked Distributed Parameter Systems. IEEE Transactions on Automatic Control, 2015, 60, 2219-2224.	3.6	20
63	Compensation of spatiotemporally varying disturbances in nonlinear transport processes via actuator scheduling. International Journal of Robust and Nonlinear Control, 2004, 14, 181-197.	2.1	19
64	Actuator and controller scheduling in nonlinear transport-reaction processes. Chemical Engineering Science, 2008, 63, 3537-3550.	1.9	19
65	Genetic defects in N-glycosylation and cellular diversity in mammals. Current Opinion in Structural Biology, 2001, 11, 601-607.	2.6	18
66	Adaptation and optimization of the synchronization gains in the adaptive spacecraft attitude synchronization. Aerospace Science and Technology, 2015, 46, 116-123.	2.5	18
67	A distributed control and parameter estimation protocol with prescribed performance for homogeneous lagrangian multi-agent systems. Autonomous Robots, 2018, 42, 1525-1541.	3.2	18
68	N-Glycan Branching Decouples B Cell Innate and Adaptive Immunity to Control Inflammatory Demyelination. IScience, 2020, 23, 101380.	1.9	18
69	N-Glycan Branching Is Required for Development of Mature B Cells. Journal of Immunology, 2020, 205, 630-636.	0.4	18
70	Estimation of Gaseous Plume Concentration with an Unmanned Aerial Vehicle. Journal of Guidance, Control, and Dynamics, 2016, 39, 1314-1324.	1.6	17
71	Enforcing Consensus on Adaptive Parameter Estimation of Structurally Perturbed Infinite Dimensional Systems. IEEE Transactions on Automatic Control, 2012, 57, 3147-3152.	3.6	16
72	Guidance of a moving collocated actuator/sensor for improved control of distributed parameter systems. , 2008, , .		15

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73	Inhibition of Glyceraldehyde-3-Phosphate Dehydrogenase Activity by Antibodies Present in the Cerebrospinal Fluid of Patients with Multiple Sclerosis. Journal of Immunology, 2010, 185, 1968-1975.	0.4	15
74	Association of a Marker of *N*-Acetylglucosamine With Progressive Multiple Sclerosis and Neurodegeneration. JAMA Neurology, 2021, 78, 842.	4.5	15
75	Adaptive Parameter Estimation of Hyperbolic Distributed Parameter Systems: Non-symmetric Damping and Slowly Time Varying Systems. ESAIM - Control, Optimisation and Calculus of Variations, 1998, 3, 133-162.	0.7	15
76	Encoding Asymmetry of the N-Glycosylation Motif Facilitates Glycoprotein Evolution. PLoS ONE, 2014, 9, e86088.	1.1	15
77	Natural Observer Design for Singularly Perturbed Vector Second-Order Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 648-655.	0.9	14
78	Propulsion Requirements for Drag-Free Operation of Spacecraft in Low Earth Orbit. Journal of Spacecraft and Rockets, 2006, 43, 594-606.	1.3	14
79	Estimation of distributed processes using mobile spatially distributed sensors. Proceedings of the American Control Conference, 2007, , .	0.0	13
80	Control of a tethered undersea kite energy system using a six degree of freedom model. , 2015, , .		13
81	Increasing cell permeability of N-acetylglucosamine via 6-acetylation enhances capacity to suppress T-helper 1 (TH1)/TH17 responses and autoimmunity. PLoS ONE, 2019, 14, e0214253.	1.1	13
82	Unknown Input Observers for a class of distributed parameter systems. , 0, , .		12
83	Spatial PID consensus controllers for distributed filters of distributed parameter systems. Systems and Control Letters, 2014, 63, 57-62.	1.3	12
84	Genomeâ€Wide Analysis of Geneâ€Gene and Geneâ€Environment Interactions Using Closedâ€Form Wald Tests. Genetic Epidemiology, 2015, 39, 446-455.	0.6	12
85	Age-associated impairment of T cell immunity is linked to sex-dimorphic elevation of N-glycan branching. Nature Aging, 2022, 2, 231-242.	5.3	12
86	Electromechanical Modeling of Applied Field Micro Pulsed Plasma Thrusters. , 2005, , .		11
87	Design of spatially distributed filters for distributed parameter systems using mobile sensor networks. , 2010, , .		11
88	Optimisation and adaptation of synchronisation controllers for networked second-order infinite-dimensional systems. International Journal of Control, 2019, 92, 112-131.	1.2	11
89	Adaptive Observers for a Class of Infinite Dimensional Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 5346-5350.	0.4	10
90	Robust detection and accommodation of incipient component faults in nonlinear distributed processes. Proceedings of the American Control Conference, 2007, , .	0.0	10

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91	Feasibility for Orbital Life Extension of a CubeSat in the Lower Thermosphere. Journal of Spacecraft and Rockets, 2016, 53, 864-875.	1.3	10
92	Closed-loop guidance of mobile sensors for the estimation of spatially distributed processes. , 2018, , .		10
93	Modeling and control of tethered undersea kites. Ocean Engineering, 2019, 190, 106390.	1.9	10
94	Variable structure model reference adaptive control of parabolic distributed parameter systems. , 2002, , .		9
95	Centralized and decentralized policies for the containment of moving source in 2D diffusion processes using sensor/actuator network. , 2009, , .		9
96	Spatial gradient measurement through length scale estimation for the tracking of a gaseous source. , 2012, , .		9
97	Disturbance-decoupling observers for a class of second order distributed parameter systems. , 2013, , .		9
98	Long-term plasma exchange as maintenance therapy for cerebellar-type Hashimotoâ€™s encephalopathy, a case report. Transfusion and Apheresis Science, 2018, 57, 418-420.	0.5	9
99	Galectins as Adaptors: Linking Glycosylation and Metabolism with Extracellular Cues. Trends in Glycoscience and Glycotechnology, 2018, 30, SE167-SE177.	0.0	9
100	Real-time prediction of gas contaminant concentration from a ground intruder using a UAV. , 2015, , .		8
101	Adaptive Parameter Estimation for Degenerate Parabolic Systems. Journal of Mathematical Analysis and Applications, 1995, 189, 815-847.	0.5	7
102	<title>Optimal switching policy of smart actuators in flexible structures</title>. , 2001, 4326, 220.		7
103	On-line monitoring and accommodation of nonlinear actuator faults in positive real infinite dimensional systems. , 2004, , .		7
104	Detection and containment policy of moving source in 2D diffusion processes using sensor/actuator network. , 2007, , .		7
105	Scheduling of static sensor networks and management of mobile sensor networks for the detection and containment of moving sources in spatially distributed processes. , 2009, , .		7
106	Adaptive consensus estimation of multi-agent systems. , 2011, , .		7
107	Model-based detection of a moving gaseous source in a 2D spatial domain using a sensor-based grid adaptation approach. , 2011, , .		7
108	Synchronization of a class of second order distributed parameter systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 73-78.	0.4	7

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109	Adaptive Estimation Using Multiagent Network Identifiers With Undirected and Directed Graph Topologies. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	7
110	Adaptive output feedback synchronization of networked distributed parameter systems. , 2014, , .		7
111	Gradient-ascent schemes for the guidance of mobile sensors used in the estimation of spatially distributed systems. , 2015, , .		7
112	Passivity based control of a Tethered Undersea Kite energy system. , 2016, , .		7
113	Boundary adaptive synchronization of networked PDEs with adaptive parameter estimators. IFAC-PapersOnLine, 2016, 49, 242-247.	0.5	7
114	Using modified Centroidal Voronoi Tessellations in kernel partitioning for optimal actuator and sensor selection of parabolic PDEs with static output feedback. , 2017, , .		7
115	Functional estimation of perturbed positive real infinite dimensional systems using adaptive compensators. , 2020, , .		7
116	Cancer Moonshot Immuno-Oncology Translational Network (IOTN): accelerating the clinical translation of basic discoveries for improving immunotherapy and immunoprevention of cancer. , 2020, 8, e000796.		7
117	Robustness studies for$H∞$ feedback control in a structural acoustic model with periodic excitation. International Journal of Robust and Nonlinear Control, 1996, 6, 453-478.	2.1	6
118	Robust sensor location optimization in distributed parameter systems using functional observers. , 0, , .		6
119	Controlling distributed parameter systems using mobile actuator-plus-sensor networks. , 2009, , .		6
120	Enforcing and enhancing consensus of spatially distributed filters utilizing mobile sensor networks. , 2010, , .		6
121	Lyapunov based guidance of a mobile sensing agent for state estimation of a gaseous source in a 3D spatial domain. , 2011, , .		6
122	Adaptive consensus filters of spatially distributed systems with limited connectivity. , 2013, , .		6
123	Attitude tracking control of an Airborne Wind Energy system. , 2015, , .		6
124	Control of an airborne wind energy system using an aircraft dynamics model. , 2015, , .		6
125	Distributed Kalman filters with adaptive strategy for linear time€varying interconnected systems. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1568-1582.	2.3	6
126	Sensor selection and static output feedback of parabolic PDEs via state feedback kernel partitioning using modification of Voronoi Tessellations. , 2017, , .		6

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127	Adaptive and optimal synchronization control of networked positive real infinite dimensional systems with virtual leader. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1403-1416.	2.3	6
128	Experimental verification of an actuator guidance scheme for a 1-D thermal manufacturing processing. , 0, , .		6
129	Emulating a mobile spatially distributed sensor by mobile pointwise sensors in state estimation of partial differential equations via spatial interpolation. , 2017, , .		6
130	Fault detection, diagnosis and accommodation of dynamical systems with actuator failures via online approximators. , 1998, , .		5
131	LMI approach to global and local switching controller design of flexible structures. , 2001, , .		5
132	On-line fault/damage detection schemes for mechanical and structural systems. Structural Control and Health Monitoring, 2003, 10, 1-23.	0.4	5
133	Adaptive consensus filters for collocated infinite dimensional systems. , 2011, , .		5
134	Simplified controller design for distributed parameter systems using mobile actuator with augmented vehicle dynamics. , 2011, , .		5
135	Adaptive collaborative estimation of multi-agent mobile robotic systems. , 2012, , .		5
136	Incorporating parental information into family-based association tests. Biostatistics, 2013, 14, 556-572.	0.9	5
137	Consensus of spatially distributed filters using mobile sensor networks with limited connectivity. , 2013, , .		5
138	Optimization and adaptation of consensus penalty terms for the attitude synchronization of spacecraft formation. , 2013, , .		5
139	Design and optimization of synchronization controllers for networked second order infinite dimensional systems. , 2014, , .		5
140	Domain decomposition methods in the distributed estimation of spatially distributed processes with mobile sensors. , 2016, , .		5
141	Attitude tracking control of a GroundGen airborne wind energy system. , 2016, , .		5
142	Attitude Tracking Control of an Airborne Wind Energy System. Green Energy and Technology, 2018, , 215-239.	0.4	5
143	Navigating over 3D environments while minimizing cumulative exposure to hazardous fields. Automatica, 2020, 115, 108859.	3.0	5
144	Experimental implementation of an optimal actuator switching policy algorithm in flexible structures. , 2003, , .		4

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145	On-line actuator fault detection and accommodation scheme for positive real infinite dimensional systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 287-292.	0.4	4
146	Adaptive monitoring and accommodation of nonlinear actuator faults in positive real infinite dimensional systems. , 2006, , .		4
147	Collocated Hâˇž Control of a Cantilevered Beam using an Analytical Upper-bound Approach. Journal of Intelligent Material Systems and Structures, 2009, 20, 865-873.	1.4	4
148	Measure of disagreement of spatially distributed filters for distributed parameter systems. , 2010, , .		4
149	Numerical investigation of the spatial estimation error in sensor guidance used for the localization of a gaseous source in a 2D domain. , 2011, , .		4
150	Estimation of a gaseous release into the atmosphere using a formation of UAVs. IFAC-PapersOnLine, 2016, 49, 110-115.	0.5	4
151	Gain adaptation and sensor guidance of diffusion PDEs using on-line approximation of optimal feedback kernels. , 2016, , .		4
152	Adaptive observers for non-square positive real infinite dimensional systems. , 2016, , .		4
153	Plume estimation using static and dynamic formations of unmanned aerial vehicles. , 2016, , .		4
154	Adaptive distributed unknown input observers for interconnected linear descriptor systems. International Journal of Systems Science, 2017, 48, 182-189.	3.7	4
155	Detection of communication attacks on spatially distributed systems with multiple interconnected actuator/sensor pairs. , 2018, , .		4
156	Incorporating impact of hazardous and toxic environments on the guidance of mobile sensor networks used for the cooperative estimation of spatially distributed processes. , 2018, , .		4
157	Non-overlapping domain decomposition methods for computationally efficient estimation of parabolic PDEs with mobile sensors. , 2018, , .		4
158	A level-set based approach for the path planning of human evacuations in contaminated indoor environments. , 2019, , .		4
159	Moving sensors for improved estimation of dynamic structures: Experimental validation. JVC/Journal of Vibration and Control, 2020, , 107754632096501.	1.5	4
160	Domain Decomposition for a Hybrid State Estimation of a Plume Field with a Moving Sensor. , 2020, , .		4
161	Employing mobile sensor density to approximate state feedback kernels in static output feedback control of PDEs. , 2021, , .		4
162	Utilization of coupling effects in compensator design for structural acoustic systems. Journal of the Acoustical Society of America, 1998, 103, 872-887.	0.5	3

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163	On-Line Damage Detection, Assessment and Accommodation in Civil Infrastructure Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 759-764.	0.4	3
164	Integrated Actuator Placement and Supervisory Switching in Flexible Structures Under Spatiotemporal Disturbance Variations. , 2003, , .		3
165	Singular Control-Invariance PDEs for Nonlinear Systems. Multiscale Modeling and Simulation, 2005, 3, 731-748.	0.6	3
166	Damping Parameter Design in Structural Systems Using an Analytical H_∞ Norm Bound Approach. , 2006, , .		3
167	Distributed parameter methods for moving sensor networks in unison. , 2008, , .		3
168	Incorporating communication delays in the guidance of a moving actuator/sensor for performance enhancement of controlled distributed parameter systems. , 2009, , .		3
169	Towards optimal actuator placement for dissipative PDE systems in the presence of uncertainty. , 2010, , .		3
170	Estimation of spatial fields using asymptotic embedding methods and Lagrangian sensing. , 2012, , .		3
171	Adaptation of consensus penalty terms for attitude synchronization of spacecraft formation with unknown parameters. , 2013, , .		3
172	Attitude synchronization of spacecraft formation with adaptation of consensus penalty terms. , 2013, , .		3
173	Optimization of spatially distributed systems with spatially local controllers and partial connectivity. , 2014, , .		3
174	Estimation of a gaseous release into the atmosphere using an unmanned aerial vehicle. , 2015, , .		3
175	Design of decentralized local controllers of spatially distributed systems by approximation of feedback kernels. , 2016, , .		3
176	Information-based guidance of cooperative mobile agents in hazardous environments: In-domain and boundary patrolling. , 2017, , .		3
177	Observer Design with Sparsity for Parabolic PDEs. IFAC-PapersOnLine, 2019, 52, 180-182.	0.5	3
178	Hybrid domain decomposition filters for parabolic spatially distributed processes. , 2019, , .		3
179	A path planning algorithm for human evacuations with an environment dependent motion. , 2019, , .		3
180	Effect of vitamin D supplementation on N‑glycan branching and cellular immunophenotypes in MS. Annals of Clinical and Translational Neurology, 2020, 7, 1628-1641.	1.7	3

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181	The Crossroads of Glycoscience, Infection, and Immunology. Frontiers in Microbiology, 2021, 12, 731008.	1.5	3
182	A Psychological Approach for the Path Planning of Human Evacuations in Contaminated Indoor Environments. IFAC-PapersOnLine, 2020, 53, 7533-7538.	0.5	3
183	Controlling PDEs with mobile actuators constrained over time-varying reachability sets. , 2020, , .		3
184	Hybrid domain decomposition filters for advection–diffusion PDEs with mobile sensors. Automatica, 2022, 138, 110109.	3.0	3
185	Optimization of actuator placement and hybrid controller design in flexible plates using PZT actuators. , 2005, , .		2
186	Scheduling policies of intelligent sensors and sensor/actuators in flexible structures. , 2006, , .		2
187	Integrated actuator placement and fault tolerant controller design for a class of distributed parameter systems. , 2008, , .		2
188	Using &#x210D;<inf>2</inf>-control metrics for the optimal actuator location of infinite-dimensional systems. , 2010, , .		2
189	Measure-of-disagreement of consensus and adaptive-consensus filters for spatially distributed systems. , 2010, , .		2
190	Switch-Mode Continuously Variable Transmission: Modeling and Optimization. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	0.9	2
191	Numerical studies of concentration estimation and source tracking of a gaseous source using multiple mobile distributed sensors. , 2012, , .		2
192	Cubesat Design and Attitude Control with Micro Pulsed Plasma Thrusters. , 2014, , .		2
193	Synchronization optimization of networked second order infinite dimensional systems. , 2014, , .		2
194	State reconstruction of elastic systems using moving sensors. , 2014, , .		2
195	Frequency domain methods for optimal sensor placement and scheduling of spatially distributed systems arising in environmental and meteorological applications. , 2014, , .		2
196	Desynchronization and resynchronization of networked second order finite and infinite dimensional systems. , 2015, , .		2
197	Leader selection and optimal synchronization gains in synchronization control of networked distributed parameter systems. , 2015, , .		2
198	Synthesis of adaptive controllers for spacecraft rendezvous maneuvers using nonlinear models of relative motion. , 2016, , .		2

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199	Gradient-based schemes of mobile sensor guidance for estimating spatially distributed systems in hazardous environments using value of information. , 2016, , .		2
200	Optimization of second order spatially distributed systems with multiple interconnected actuator/sensor pairs. IFAC-PapersOnLine, 2016, 49, 476-481.	0.5	2
201	Micro Pulsed Plasma Thrusters for Attitude Control of a Low Earth Orbiting CubeSat. , 2016, , .		2
202	Adaptive Controllers for Spacecraft Rendezvous based on nonlinear model with unknown parameters. , 2017, , .		2
203	Modeling of Tethered Kite Apparent Velocity Dynamics Based on Effective Attitude Tracking. , 2017, , .		2
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