

Mohamed Djemai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153
papers

1,634
citations

20
h-index

35
g-index

177
ext. papers

2,094
ext. citations

2.8
avg, IF

4.9
L-index

#	Paper	IF	Citations
153	Fixed-Time Fractional-Order Global Sliding Mode Control for Nonholonomic Mobile Robot Systems under External Disturbances. <i>Fractal and Fractional</i> , 2022 , 6, 177	3	2
152	A distributed fault detection scheme in disturbed heterogeneous networked systems. <i>Nonlinear Dynamics</i> , 2022 , 107, 2519-2538	5	0
151	Self adaptive learning scheme for early diagnosis of simple and multiple switch faults in multicellular power converters. <i>ISA Transactions</i> , 2021 , 113, 222-231	5.5	3
150	Finite-time stability and stabilization results for switched impulsive dynamical systems on time scales. <i>Journal of the Franklin Institute</i> , 2021 , 358, 674-698	4	6
149	Results on abstract integro hybrid evolution system with impulses on time scales. <i>Nonlinear Analysis: Hybrid Systems</i> , 2021 , 39, 100986	4.5	0
148	Event-triggered Control for Systems on Non-uniform Time Domains Using Measure Chain Theory. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	
147	Time scale state feedback h-stabilisation of linear systems under Lipschitz-type disturbances. <i>International Journal of Systems Science</i> , 2021 , 52, 1719-1729	2.3	1
146	Fault diagnosis for discrete events systems described by partially observed Petri nets. <i>ISA Transactions</i> , 2021 ,	5.5	1
145	2021 , 5, 1904-1909		2
144	Distributed global fault detection scheme in multi-agent systems with chained-form dynamics. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 3859-3877	3.6	3
143	Observer-based output feedback consensus protocol for double-integrator multi-agent systems under intermittent sampled position measurements. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3025-3030	0.7	
142	A Distributed Observer-Based Cyber-Attack Identification Scheme in Cooperative Networked Systems under Switching Communication Topologies. <i>Electronics (Switzerland)</i> , 2020 , 9, 1912	2.6	3
141	Total controllability results for a class of time-varying switched dynamical systems with impulses on time scales. <i>Asian Journal of Control</i> , 2020 ,	1.7	2
140	Mean square consensus of double-integrator multi-agent systems under intermittent control: A stochastic time scale approach. <i>Journal of the Franklin Institute</i> , 2019 , 356, 9076-9094	4	7
139	Control strategy for fixed-time leader-follower consensus for multi-agent systems with chained-form dynamics. <i>Nonlinear Dynamics</i> , 2019 , 96, 2693-2705	5	16
138	Stability analysis of a class of switched nonlinear systems using the time scale theory. <i>Nonlinear Analysis: Hybrid Systems</i> , 2019 , 33, 195-210	4.5	6
137	A geometric approach to nonlinear fault detection and isolation in a hybrid three-cell converter. <i>International Journal of Systems Science</i> , 2019 , 50, 1069-1088	2.3	1

136	Experimental Implementation of Fixed-Time Leader-Follower Axial Alignment Tracking 2019 ,		1
135	Distributed leader-follower consensus for a class of semilinear second-order multiagent systems using time scale theory. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 433-450	3.6	9
134	Sufficient conditions for uniform exponential stability and h-stability of some classes of dynamic equations on arbitrary time scales. <i>Nonlinear Analysis: Hybrid Systems</i> , 2019 , 32, 54-64	4.5	11
133	Decentralized Motion Planning and Scheduling of AGVs in an FMS. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 1744-1752	11.9	41
132	Active Diagnosis for Switched Systems Using Mealy Machine Modeling 2018 , 147-173		
131	Hybrid control design for limit cycle stabilisation of planar switched systems. <i>International Journal of Control</i> , 2018 , 91, 1720-1729	1.5	5
130	On the Local Stabilization of Hybrid Limit Cycles in Switched Affine Systems. <i>IEEE Transactions on Automatic Control</i> , 2018 , 1-1	5.9	2
129	Smartness Versus Embeddability: A Tradeoff for the Deployment of Smart AGVs in Industry. <i>Studies in Computational Intelligence</i> , 2018 , 395-406	0.8	1
128	Development of a wireless communication platform for multiple-mobile robots using ROS 2018 ,		2
127	Stability of switched systems on non-uniform time domains with non commuting matrices. <i>IFAC-PapersOnLine</i> , 2018 , 51, 37-42	0.7	2
126	Razumikhin-type Theorems on Practical Stability of Dynamic Equations on Time Scales. <i>IFAC-PapersOnLine</i> , 2018 , 51, 121-126	0.7	3
125	On the consensus tracking investigation for multi-agent systems on time scale via matrix-valued Lyapunov functions. <i>Automatica</i> , 2018 , 97, 316-326	5.7	20
124	Investigation of the Driver's Arm Viscoelastic Properties During Steering Vehicle Maneuver. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 1030-1036	7.3	7
123	Stability analysis of switched linear systems on non-uniform time domain with unstable subsystems * *This work has been supported by International Campus on Safety and Intermodality in Transportation, the European Community, the Regional Delegation for research and Technology, the Nord Pas de Calais Region, the Ministry of Higher Education and Research and the National	0.7	4
122	The effects of haptic-virtual reality game therapy on brain-motor coordination for children with A hemiplegia: A pilot study 2017 , 17, 50, 14873-14878		1
121	Some generalizations of Pachpatte inequalities on time scales. <i>IFAC-PapersOnLine</i> , 2017 , 50, 14884-14889.	7	3
120	Switched Control for Reducing Impact of Vertical Forces on Road and Heavy-Vehicle Rollover Avoidance. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 4044-4052	6.8	16
119	Binary Control Design for a Class of Bilinear Systems: Application to a Multilevel Power Converter. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 719-726	4.8	13

118	Consensus for linear multi-agent system with intermittent information transmissions using the time-scale theory. <i>International Journal of Control</i> , 2016 , 89, 210-220	1.5	20
117	Fixed-time stabilisation and consensus of non-holonomic systems. <i>IET Control Theory and Applications</i> , 2016 , 10, 2497-2505	2.5	49
116	New MPPT algorithm for PV applications based on hybrid dynamical approach. <i>Journal of Process Control</i> , 2016 , 48, 14-24	3.9	14
115	Navigation Scheme with Priority-Based Scheduling of Mobile Agents: Application to AGV-Based Flexible Manufacturing System. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016 , 82, 495-512	2.9	15
114	On the limit cycle stabilization of a DC/DC three-cell converter. <i>Control Engineering Practice</i> , 2016 , 49, 29-41	3.9	15
113	Adaptive sensor and actuator fault estimation for a class of uncertain Lipschitz nonlinear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2016 , 30, 271-283	2.8	34
112	Output observer for fault detection in linear systems 2016 ,		1
111	Fault detection and diagnosis from a hybrid system point of view 2016 ,		1
110	State feedback stabilization of a class of uncertain nonlinear systems on non-uniform time domains. <i>Systems and Control Letters</i> , 2016 , 97, 18-26	2.4	22
109	Leader-follower fixed-time consensus for multi-agent systems with unknown non-linear inherent dynamics. <i>IET Control Theory and Applications</i> , 2015 , 9, 2165-2170	2.5	161
108	Fault detection and isolation for a multi-cellular converter based on sliding mode observer. <i>IFAC-PapersOnLine</i> , 2015 , 48, 164-170	0.7	11
107	On the use of the unified chaotic system in the field of secure communication 2015 ,		2
106	Continuous and Discrete State Estimation for a Class of Nonlinear Switched Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2015 , 62, 691-695	3.5	10
105	Observability and Observer Design of Partially Observed Petri Nets. <i>IFAC-PapersOnLine</i> , 2015 , 48, 27-32	0.7	1
104	Region of exponential stability of switched linear systems on time scales**This work has been supported by International Campus on Safety and Intermodality in Transportation, the European Community, the Delegation Regionale a la Recherche et a la Technologie, the Ministere de l'Enseignement sup_erieur et de la Recherche, the Region Nord Pas de Calais and the Centre	0.7	3
103	Nonlinear Observer for Autonomous Switching Systems with Jumps. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 103-128	0.5	0
102	Fault detection based on higher-order sliding mode observer for a class of switched linear systems. <i>IET Control Theory and Applications</i> , 2015 , 9, 2249-2256	2.5	20
101	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 3304-3312	6.1	3

100	Stability analysis of a class of uncertain switched systems on time scale using Lyapunov functions. <i>Nonlinear Analysis: Hybrid Systems</i> , 2015 , 16, 13-23	4.5	29
99	On the Observation Analysis and Observer Design for a Class of Hybrid Continuous-Discrete Dynamic System. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 129-149	0.5	
98	Multicellular Converter: A Benchmark for Control and Observation for Hybrid Dynamical Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 293-313	0.5	0
97	Active modes and switching instants identification for linear switched systems based on Discrete Particle Swarm Optimization. <i>Applied Soft Computing Journal</i> , 2014 , 14, 482-488	7.5	15
96	Current configuration detection in hybrid systems: Application to a conjunction/disjunction mechatronics system. <i>Mechatronics</i> , 2014 , 24, 1262-1268	3	3
95	Using discrete-time hyperchaotic-based asymmetric encryption and decryption keys for secure signal transmission 2014 ,		2
94	Hybrid sliding mode control for two cells converter 2014 ,		2
93	Hybrid state estimation for a class of switched system using Petri nets 2014 ,		6
92	Analysis from robust control under environment constraint: application for traffic model. <i>International Journal of Business Performance and Supply Chain Modelling</i> , 2014 , 6, 315	0.6	1
91	Cooperation mechanisms in multi-agent robotic systems and their use in distributed manufacturing control: Issues and literature review 2014 ,		4
90	Stability analysis of a class of switched linear systems on non-uniform time domains. <i>Systems and Control Letters</i> , 2014 , 74, 24-31	2.4	26
89	Self-triggered control for multi-agent systems with unknown non-linear inherent dynamics. <i>IET Control Theory and Applications</i> , 2014 , 8, 2266-2275	2.5	8
88	Speed sensorless flux observer for induction machines 2014 ,		1
87	Identification of human arm viscoelastic properties during vehicle steering maneuver 2014 ,		4
86	Hybrid sliding mode observer for switched linear systems with unknown inputs. <i>Journal of the Franklin Institute</i> , 2014 , 351, 3987-4008	4	38
85	On sliding mode observer for a hybrid three-cell converter 2013 ,		3
84	Stability of switched linear systems on time scale 2013 ,		2
83	State and firing sequence estimation of Petri Net application to: Manufacturing systems 2013 ,		2

82	Virtual Prototyping of an Electric Power Steering Simulator. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 274-283	6.1	4
81	Steering wheel hand position in low-speed maneuvers. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2013 , 21, 133-145	4.5	2
80	A Lyapunov-based design of a modified super-twisting algorithm for the Heisenberg system. <i>IMA Journal of Mathematical Control and Information</i> , 2013 , 30, 185-204	1.1	15
79	Self-triggered control for multi-agent systems under a directed switching graph 2013 ,		5
78	Active diagnosis for a class of switched systems 2013 ,		2
77	Comparison of steering forces of healthy versus disabled drivers under simulation condition. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16 Suppl 1, 118-20	2.1	2
76	Heavy duty vehicle tyre forces estimation using variable gain sliding mode observer. <i>International Journal of Vehicle Design</i> , 2013 , 62, 274	2.4	5
75	Enlarging the Domain of Attraction in Nonlinear Polynomial Systems. <i>International Journal of Computers, Communications and Control</i> , 2013 , 8, 538	3.6	5
74	A New Control Strategy of an Electric-Power-Assisted Steering System. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3574-3589	6.8	65
73	Hybrid bond graph diagnostic and localisation - signal signature study of three-cell converter 2012 ,		1
72	Ship motion control using multi-controller structure. <i>Ocean Engineering</i> , 2012 , 55, 184-190	3.9	15
71	Traffic velocity control for evaluation the impact of gases emissions: Case study of toll plaza 2012 ,		2
70	Rack force feedback for an electrical power steering simulator 2012 ,		3
69	Hybrid observer for switched linear systems with unknown inputs 2012 ,		6
68	Fault detection & isolation for a class of hybrid systems: A dedicated switched robust observer scheme 2012 ,		8
67	Driving simulation protocol to determine steering strategies. <i>International Journal of Industrial Ergonomics</i> , 2012 , 42, 469-477	2.9	5
66	Instrumented steering wheel for biomechanical measurements. <i>Mechatronics</i> , 2012 , 22, 639-650	3	12
65	Observer design for some classes of uniformly observable nonlinear hybrid systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2012 , 6, 917-929	4.5	18

64	Sensorless control of Electric Power Assisted Steering system 2012,		3
63	Normal/tangential force proportion during steering under simulation condition. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15 Suppl 1, 243-5	2.1	3
62	Discrete state estimation in hybrid photovoltaic systems 2012,		1
61	Hybrid observer for the multicellular converter*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 259-264		3
60	Hybrid Bond Graphs for diagnosis of three cells converter. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 162-167		2
59	Robust finite time observer design for multicellular converters. <i>International Journal of Systems Science</i> , 2011 , 42, 1859-1868	2.3	41
58	Enlarging region of attraction via LMI-based approach and Genetic Algorithm 2011,		4
57	Sliding Mode Based Analysis and Identification of Vehicle Dynamics. <i>Lecture Notes in Control and Information Sciences</i> , 2011 ,	0.5	25
56	Binary signals design to control a power converter 2011,		9
55	High-order sliding mode control of a DC motor drive via a switched controlled multi-cellular converter. <i>International Journal of Systems Science</i> , 2011 , 42, 1869-1882	2.3	31
54	Fouling detection in heat exchangers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 13368-13373		2
53	Control of electric power assisted steering system using sliding mode control 2011,		10
52	A backstepping procedure for a class of underactuated system with tree structure 2011,		3
51	Control of an Electric Power Assisted Steering system using reference model 2011,		14
50	Introducing a method to compare the hand position of drivers under wheel steering task: preliminary results. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011 , 14, 91-93	2.1	1
49	Robust Observation of Tractor-trailer Vertical Forces Using Inverse Model and Exact Differentiator. <i>SAE International Journal of Materials and Manufacturing</i> , 2010 , 3, 278-289	1	7
48	2010,		13
47	On finite time observer design for multicellular converter 2010,		4

46	Finite-time controller design for nonholonomic mobile robot using the heisenberg form 2010 ,		3
45	Variable gain sliding mode observer for heavy duty vehicle tyre forces estimation 2010 ,		5
44	Towards An Electrical Power-Assisted Steering Simulator : Modeling Specifications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 571-576		
43	Backstepping/DTC control of a double star synchronous machine drive. <i>Archives of Control Sciences</i> , 2010 , 20, 227-247		1
42	Algorithms for Transformation into the Extended Jordan Controllable and observable forms 2009 ,		1
41	Unknown input observation via sliding modes : application to vehicle contact forces 2009 ,		2
40	Discrete-time Normal Form for Left Invertibility Problem. <i>European Journal of Control</i> , 2009 , 15, 194-204	2.5	10
39	Optimal Control of Switched Linear Systems by Particle Swarm Optimization. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 484-489		6
38	Real time control via a high order sliding mode controller of a multi-cellular converter. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 346-351		
37	Design and practical implementation of a back-EMF sliding-mode observer for a brushless DC motor. <i>IET Electric Power Applications</i> , 2008 , 2, 353-361	1.8	40
36	IMPLICIT TRIANGULAR OBSERVER FORM DEDICATED TO A SLIDING MODE OBSERVER FOR SYSTEMS WITH UNKNOWN INPUTS. <i>Asian Journal of Control</i> , 2008 , 5, 513-527	1.7	12
35	ROBUSTNESS ANALYSIS ON SLIDING MODE CONTROL OF INDUCTION MOTOR. <i>Asian Journal of Control</i> , 2008 , 5, 605-613	1.7	3
34	On sliding mode observer for hybrid three cells converter : Experimental results 2008 ,		5
33	On observability and High Order Sliding Mode and adaptive observers design for a multicell chopper 2008 ,		2
32	Robust pole placement controller design in LMI region for uncertain and disturbed switched systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2008 , 2, 1136-1143	4.5	23
31	State observer and observability conditions for a class of hybrid continuous-discrete dynamic system 2007 ,		3
30	Nonlinear observer for autonomous switching systems with jumps. <i>Nonlinear Analysis: Hybrid Systems</i> , 2007 , 1, 537-547	4.5	64
29	Hybrid control of a multicellular converter. <i>Nonlinear Analysis: Hybrid Systems</i> , 2007 , 1, 16-29	4.5	32

28	Exact Differentiation via Sliding Mode Observer for Switched Systems 2006 , 124-129		5
27	High order sliding mode and adaptive observers for a class of switched systems with unknown parameter: A comparative study 2006 ,		6
26	SYNCHRONIZATION OF UNCERTAIN CHAOTIC SYSTEMS VIA BACKSTEPPING WITH MODULAR DESIGN. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 13-18		
25	OBSERVER FOR HYBRID CHAOTIC SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 166-171		1
24	EXACT DIFFERENTIATION VIA SLIDING MODE OBSERVER FOR SWITCHED SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 124-129		2
23	Exact differentiation and sliding mode observers for switched Lagrangian systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2006 , 65, 1050-1069	1.3	72
22	Observability quadratic normal form for discrete-time systems. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 1031-1038	5.9	6
21	NEW TYPE OF DATA TRANSMISSION USING A SYNCHRONIZATION OF CHAOTIC SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005 , 15, 207-223	2	11
20	On the robust fault detection via a sliding mode disturbance observer. <i>International Journal of Control</i> , 2004 , 77, 622-629	1.5	117
19	Discrete time normal form for the left invertibility problem. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 489-494		
18	A multirate digital control via a discrete-time observer for non-linear singularly perturbed continuous-time systems. <i>International Journal of Control</i> , 2002 , 75, 591-613	1.5	7
17	A PERTURBATION ESTIMATION TO SOLVE THE FUNDAMENTAL PROBLEM OF RESIDUAL GENERATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 223-228		
16	About Multirate Digital Control for Nonlinear Singularity Perturbed Continuous-Time Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 859-864		
15	Some Comments on the Control of Linear and Bilinear Singularly Perturbed Systems Under Fast Sampling. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 1055-1060		
14	Some comments on higher order sliding modes 1999 ,		2
13	Digital multirate control for a class of non-linear singularly perturbed systems. <i>International Journal of Control</i> , 1999 , 72, 851-865	1.5	6
12	Analysis and Control of Nonlinear Singularly Perturbed Systems under Sampling ¹ ¹ The first part of this work concerning the discretization of NLSP systems was partially presented in the Ph.D. dissertation of N. Pantalos. <i>Control and Dynamic Systems</i> , 1996 , 203-246		6
11	Nonlinear Sliding Observer for Systems in Output and Output Derivative Injection Form. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1996 , 29, 2179-2184		5

10	Exact steering and stabilization of a PVTOL aircraft	5
9	Cryptography by discrete-time hyperchaotic systems	3
8	On a sliding mode control and observer of induction motor	2
7	Smooth manifolds and high order sliding mode control	4
6	A projector to design a passive-based feedback	1
5		6
4	Sliding mode observer for triangular input form	60
3		7
2		5
1	Time scale observability and constructibility of linear dynamic equations. <i>International Journal of Control</i> ,1-11	1.5 0