

# Mohamed Djemai

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4969606/mohamed-djemai-publications-by-citations.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Leader-follower fixed-time consensus for multi-agent systems with unknown non-linear inherent dynamics. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 2165-2170	2.5	161
152	On the robust fault detection via a sliding mode disturbance observer. <i>International Journal of Control</i> , <b>2004</b> , 77, 622-629	1.5	117
151	Exact differentiation and sliding mode observers for switched Lagrangian systems. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2006</b> , 65, 1050-1069	1.3	72
150	A New Control Strategy of an Electric-Power-Assisted Steering System. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 3574-3589	6.8	65
149	Nonlinear observer for autonomous switching systems with jumps. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2007</b> , 1, 537-547	4.5	64
148	Sliding mode observer for triangular input form		60
147	Fixed-time stabilisation and consensus of non-holonomic systems. <i>IET Control Theory and Applications</i> , <b>2016</b> , 10, 2497-2505	2.5	49
146	Decentralized Motion Planning and Scheduling of AGVs in an FMS. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 1744-1752	11.9	41
145	Robust finite time observer design for multicellular converters. <i>International Journal of Systems Science</i> , <b>2011</b> , 42, 1859-1868	2.3	41
144	Design and practical implementation of a back-EMF sliding-mode observer for a brushless DC motor. <i>IET Electric Power Applications</i> , <b>2008</b> , 2, 353-361	1.8	40
143	Hybrid sliding mode observer for switched linear systems with unknown inputs. <i>Journal of the Franklin Institute</i> , <b>2014</b> , 351, 3987-4008	4	38
142	Adaptive sensor and actuator fault estimation for a class of uncertain Lipschitz nonlinear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2016</b> , 30, 271-283	2.8	34
141	Hybrid control of a multicellular converter. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2007</b> , 1, 16-29	4.5	32
140	High-order sliding mode control of a DC motor drive via a switched controlled multi-cellular converter. <i>International Journal of Systems Science</i> , <b>2011</b> , 42, 1869-1882	2.3	31
139	Stability analysis of a class of uncertain switched systems on time scale using Lyapunov functions. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2015</b> , 16, 13-23	4.5	29
138	Stability analysis of a class of switched linear systems on non-uniform time domains. <i>Systems and Control Letters</i> , <b>2014</b> , 74, 24-31	2.4	26
137	Sliding Mode Based Analysis and Identification of Vehicle Dynamics. <i>Lecture Notes in Control and Information Sciences</i> , <b>2011</b> ,	0.5	25

136	Robust pole placement controller design in LMI region for uncertain and disturbed switched systems. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2008</b> , 2, 1136-1143	4.5	23
135	State feedback stabilization of a class of uncertain nonlinear systems on non-uniform time domains. <i>Systems and Control Letters</i> , <b>2016</b> , 97, 18-26	2.4	22
134	Consensus for linear multi-agent system with intermittent information transmissions using the time-scale theory. <i>International Journal of Control</i> , <b>2016</b> , 89, 210-220	1.5	20
133	Fault detection based on higher-order sliding mode observer for a class of switched linear systems. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 2249-2256	2.5	20
132	On the consensus tracking investigation for multi-agent systems on time scale via matrix-valued Lyapunov functions. <i>Automatica</i> , <b>2018</b> , 97, 316-326	5.7	20
131	Observer design for some classes of uniformly observable nonlinear hybrid systems. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2012</b> , 6, 917-929	4.5	18
130	Switched Control for Reducing Impact of Vertical Forces on Road and Heavy-Vehicle Rollover Avoidance. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 4044-4052	6.8	16
129	Control strategy for fixed-time leader-follower consensus for multi-agent systems with chained-form dynamics. <i>Nonlinear Dynamics</i> , <b>2019</b> , 96, 2693-2705	5	16
128	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> , <b>2016</b> , 82, 495-512	2.9	15
127	On the limit cycle stabilization of a DC/DC three-cell converter. <i>Control Engineering Practice</i> , <b>2016</b> , 49, 29-41	3.9	15
126	Active modes and switching instants identification for linear switched systems based on Discrete Particle Swarm Optimization. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 14, 482-488	7.5	15
125	Ship motion control using multi-controller structure. <i>Ocean Engineering</i> , <b>2012</b> , 55, 184-190	3.9	15
124	A Lyapunov-based design of a modified super-twisting algorithm for the Heisenberg system. <i>IMA Journal of Mathematical Control and Information</i> , <b>2013</b> , 30, 185-204	1.1	15
123	New MPPT algorithm for PV applications based on hybrid dynamical approach. <i>Journal of Process Control</i> , <b>2016</b> , 48, 14-24	3.9	14
122	Control of an Electric Power Assisted Steering system using reference model <b>2011</b> ,		14
121	Binary Control Design for a Class of Bilinear Systems: Application to a Multilevel Power Converter. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 719-726	4.8	13
120	<b>2010</b> ,		13
119	Instrumented steering wheel for biomechanical measurements. <i>Mechatronics</i> , <b>2012</b> , 22, 639-650	3	12

118	IMPLICIT TRIANGULAR OBSERVER FORM DEDICATED TO A SLIDING MODE OBSERVER FOR SYSTEMS WITH UNKNOWN INPUTS. <i>Asian Journal of Control</i> , <b>2008</b> , 5, 513-527	1.7	12
117	Fault detection and isolation for a multi-cellular converter based on sliding mode observer. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 164-170	0.7	11
116	NEW TYPE OF DATA TRANSMISSION USING A SYNCHRONIZATION OF CHAOTIC SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2005</b> , 15, 207-223	2	11
115	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> , <b>2019</b> , 32, 54-64	4.5	11
114	Continuous and Discrete State Estimation for a Class of Nonlinear Switched Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2015</b> , 62, 691-695	3.5	10
113	Control of electric power assisted steering system using sliding mode control <b>2011</b> ,		10
112	Discrete-time Normal Form for Left Invertibility Problem. <i>European Journal of Control</i> , <b>2009</b> , 15, 194-204	2.5	10
111	Binary signals design to control a power converter <b>2011</b> ,		9
110	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> , <b>2019</b> , 29, 433-450	3.6	9
109	Self-triggered control for multi-agent systems with unknown non-linear inherent dynamics. <i>IET Control Theory and Applications</i> , <b>2014</b> , 8, 2266-2275	2.5	8
108	Fault detection & isolation for a class of hybrid systems: A dedicated switched robust observer scheme <b>2012</b> ,		8
107	Investigation of the Driver's Arm Viscoelastic Properties During Steering Vehicle Maneuver. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 1030-1036	7.3	7
106	Mean square consensus of double-integrator multi-agent systems under intermittent control: A stochastic time scale approach. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 9076-9094	4	7
105	Robust Observation of Tractor-trailer Vertical Forces Using Inverse Model and Exact Differentiator. <i>SAE International Journal of Materials and Manufacturing</i> , <b>2010</b> , 3, 278-289	1	7
104	A multirate digital control via a discrete-time observer for non-linear singularly perturbed continuous-time systems. <i>International Journal of Control</i> , <b>2002</b> , 75, 591-613	1.5	7
103			7
102	Stability analysis of a class of switched nonlinear systems using the time scale theory. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2019</b> , 33, 195-210	4.5	6
101	Hybrid state estimation for a class of switched system using Petri nets <b>2014</b> ,		6

100	Hybrid observer for switched linear systems with unknown inputs <b>2012</b> ,		6
99	Optimal Control of Switched Linear Systems by Particle Swarm Optimization. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 484-489		6
98	Analysis and Control of Nonlinear Singularly Perturbed Systems under Sampling <sup>1</sup> <sup>1</sup> 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> , <b>1996</b> , 203-246		6
97	High order sliding mode and adaptive observers for a class of switched systems with unknown parameter: A comparative study <b>2006</b> ,		6
96	Observability quadratic normal form for discrete-time systems. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 1031-1038	5.9	6
95			6
94	Digital multirate control for a class of non-linear singularly perturbed systems. <i>International Journal of Control</i> , <b>1999</b> , 72, 851-865	1.5	6
93	Finite-time stability and stabilization results for switched impulsive dynamical systems on time scales. <i>Journal of the Franklin Institute</i> , <b>2021</b> , 358, 674-698	4	6
92	Hybrid control design for limit cycle stabilisation of planar switched systems. <i>International Journal of Control</i> , <b>2018</b> , 91, 1720-1729	1.5	5
91	Driving simulation protocol to determine steering strategies. <i>International Journal of Industrial Ergonomics</i> , <b>2012</b> , 42, 469-477	2.9	5
90	Self-triggered control for multi-agent systems under a directed switching graph <b>2013</b> ,		5
89	Heavy duty vehicle tyre forces estimation using variable gain sliding mode observer. <i>International Journal of Vehicle Design</i> , <b>2013</b> , 62, 274	2.4	5
88	Variable gain sliding mode observer for heavy duty vehicle tyre forces estimation <b>2010</b> ,		5
87	Exact steering and stabilization of a PVTOL aircraft		5
86	On sliding mode observer for hybrid three cells converter : Experimental results <b>2008</b> ,		5
85	Exact Differentiation via Sliding Mode Observer for Switched Systems <b>2006</b> , 124-129		5
84	Nonlinear Sliding Observer for Systems in Output and Output Derivative Injection Form. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1996</b> , 29, 2179-2184		5
83			5

82	Enlarging the Domain of Attraction in Nonlinear Polynomial Systems. <i>International Journal of Computers, Communications and Control</i> , <b>2013</b> , 8, 538	3.6	5
81	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
80	Cooperation mechanisms in multi-agent robotic systems and their use in distributed manufacturing control: Issues and literature review <b>2014</b> , 73-14878		4
79	Virtual Prototyping of an Electric Power Steering Simulator. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2013</b> , 14, 274-283	6.1	4
78	Identification of human arm viscoelastic properties during vehicle steering maneuver <b>2014</b> ,		4
77	Enlarging region of attraction via LMI-based approach and Genetic Algorithm <b>2011</b> ,		4
76	On finite time observer design for multicellular converter <b>2010</b> ,		4
75	Smooth manifolds and high order sliding mode control		4
74	Current configuration detection in hybrid systems: Application to a conjunction/disjunction mechatronics system. <i>Mechatronics</i> , <b>2014</b> , 24, 1262-1268	3	3
73	On sliding mode observer for a hybrid three-cell converter <b>2013</b> ,		3
72	Some generalizations of Pachpatte inequalities on time scales. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 14884-14889.	7	3
71	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 superieur et de la Recherche, the Region Nord Pas de Calais and the Centre National de la Recherche Scientifique. <i>IFAC PapersOnLine</i> , <b>2015</b> , 16, 893-898	0.7	3
70	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2015</b> , 16, 3304-3312	6.1	3
69	Rack force feedback for an electrical power steering simulator <b>2012</b> ,		3
68	Sensorless control of Electric Power Assisted Steering system <b>2012</b> ,		3
67	Finite-time controller design for nonholonomic mobile robot using the heisenberg form <b>2010</b> ,		3
66	A backstepping procedure for a class of underactuated system with tree structure <b>2011</b> ,		3
65	Normal/tangential force proportion during steering under simulation condition. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2012</b> , 15 Suppl 1, 243-5	2.1	3

64	Hybrid observer for the multicellular converter*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 259-264		3
63	ROBUSTNESS ANALYSIS ON SLIDING MODE CONTROL OF INDUCTION MOTOR. <i>Asian Journal of Control</i> , <b>2008</b> , 5, 605-613	1.7	3
62	State observer and observability conditions for a class of hybrid continuous-discrete dynamic system <b>2007</b> ,		3
61	Cryptography by discrete-time hyperchaotic systems		3
60	A Distributed Observer-Based Cyber-Attack Identification Scheme in Cooperative Networked Systems under Switching Communication Topologies. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1912	2.6	3
59	Self adaptive learning scheme for early diagnosis of simple and multiple switch faults in multicellular power converters. <i>ISA Transactions</i> , <b>2021</b> , 113, 222-231	5.5	3
58	Razumikhin-type Theorems on Practical Stability of Dynamic Equations on Time Scales. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 121-126	0.7	3
57	Distributed global fault detection scheme in multi-agent systems with chained-form dynamics. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 3859-3877	3.6	3
56	On the use of the unified chaotic system in the field of secure communication <b>2015</b> ,		2
55	On the Local Stabilization of Hybrid Limit Cycles in Switched Affine Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 1-1	5.9	2
54	Using discrete-time hyperchaotic-based asymmetric encryption and decryption keys for secure signal transmission <b>2014</b> ,		2
53	Hybrid sliding mode control for two cells converter <b>2014</b> ,		2
52	Stability of switched linear systems on time scale <b>2013</b> ,		2
51	State and firing sequence estimation of Petri Net application to: Manufacturing systems <b>2013</b> ,		2
50	Steering wheel hand position in low-speed maneuvers. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , <b>2013</b> , 21, 133-145	4.5	2
49	Traffic velocity control for evaluation the impact of gases emissions: Case study of toll plaza <b>2012</b> ,		2
48	Active diagnosis for a class of switched systems <b>2013</b> ,		2
47	Comparison of steering forces of healthy versus disabled drivers under simulation condition. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2013</b> , 16 Suppl 1, 118-20	2.1	2

46	Fouling detection in heat exchangers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 13368-13373		2
45	Hybrid Bond Graphs for diagnosis of three cells converter. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 162-167		2
44	Unknown input observation via sliding modes : application to vehicle contact forces <b>2009</b> ,		2
43	On observability and High Order Sliding Mode and adaptive observers design for a multicell chopper <b>2008</b> ,		2
42	EXACT DIFFERENTIATION VIA SLIDING MODE OBSERVER FOR SWITCHED SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 124-129		2
41	On a sliding mode control and observer of induction motor		2
40	Some comments on higher order sliding modes <b>1999</b> ,		2
39	Total controllability results for a class of time-varying switched dynamical systems with impulses on time scales. <i>Asian Journal of Control</i> , <b>2020</b> ,	1.7	2
38	Development of a wireless communication platform for multiple-mobile robots using ROS <b>2018</b> ,		2
37	Stability of switched systems on non-uniform time domains with non commuting matrices. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 37-42	0.7	2
36	<b>2021</b> , 5, 1904-1909		2
35	Fixed-Time Fractional-Order Global Sliding Mode Control for Nonholonomic Mobile Robot Systems under External Disturbances. <i>Fractal and Fractional</i> , <b>2022</b> , 6, 177	3	2
34	A geometric approach to nonlinear fault detection and isolation in a hybrid three-cell converter. <i>International Journal of Systems Science</i> , <b>2019</b> , 50, 1069-1088	2.3	1
33	Analysis from robust control under environment constraint: application for traffic model. <i>International Journal of Business Performance and Supply Chain Modelling</i> , <b>2014</b> , 6, 315	0.6	1
32	The effects of haptic-virtual reality game therapy on brain-motor coordination for children with hemiplegia: A pilot study <b>2017</b> ,		1
31	Observability and Observer Design of Partially Observed Petri Nets. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 27-32	0.7	1
30	Speed sensorless flux observer for induction machines <b>2014</b> ,		1
29	Hybrid bond graph diagnostic and localisation - signal signature study of three-cell converter <b>2012</b> ,		1



28	Algorithms for Transformation into the Extended Jordan Controllable and observable forms <b>2009</b> ,		1
27	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> , <b>2011</b> , 14, 91-93	2.1	1
26	Discrete state estimation in hybrid photovoltaic systems <b>2012</b> ,		1
25	Backstepping/DTC control of a double star synchronous machine drive. <i>Archives of Control Sciences</i> , <b>2010</b> , 20, 227-247		1
24	OBSERVER FOR HYBRID CHAOTIC SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 166-171		1
23	A projector to design a passive-based feedback		1
22	Smartness Versus Embeddability: A Tradeoff for the Deployment of Smart AGVs in Industry. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 395-406	0.8	1
21	Output observer for fault detection in linear systems <b>2016</b> ,		1
20	Fault detection and diagnosis from a hybrid system point of view <b>2016</b> ,		1
19	Experimental Implementation of Fixed-Time Leader-Follower Axial Alignment Tracking <b>2019</b> ,		1
18	Time scale state feedback h-stabilisation of linear systems under Lipschitz-type disturbances. <i>International Journal of Systems Science</i> , <b>2021</b> , 52, 1719-1729	2.3	1
17	Fault diagnosis for discrete events systems described by partially observed Petri nets. <i>ISA Transactions</i> , <b>2021</b> ,	5.5	1
16	Nonlinear Observer for Autonomous Switching Systems with Jumps. <i>Lecture Notes in Control and Information Sciences</i> , <b>2015</b> , 103-128	0.5	0
15	Multicellular Converter: A Benchmark for Control and Observation for Hybrid Dynamical Systems. <i>Lecture Notes in Control and Information Sciences</i> , <b>2015</b> , 293-313	0.5	0
14	Time scale observability and constructibility of linear dynamic equations. <i>International Journal of Control</i> , 1-11	1.5	0
13	Results on abstract integro hybrid evolution system with impulses on time scales. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2021</b> , 39, 100986	4.5	0
12	A distributed fault detection scheme in disturbed heterogeneous networked systems. <i>Nonlinear Dynamics</i> , <b>2022</b> , 107, 2519-2538	5	0
11	Active Diagnosis for Switched Systems Using Mealy Machine Modeling <b>2018</b> , 147-173		

- 10 Real time control via a high order sliding mode controller of a multi-cellular converter. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 346-351
- 9 Towards An Electrical Power-Assisted Steering Simulator : Modeling Specifications. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 571-576
- 8 SYNCHRONIZATION OF UNCERTAIN CHAOTIC SYSTEMS VIA BACKSTEPPING WITH MODULAR DESIGN. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2006**, 39, 13-18
- 7 Discrete time normal form for the left invertibility problem. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2004**, 37, 489-494
- 6 About Multirate Digital Control for Nonlinear Singularity Perturbed Continuous-Time Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2001**, 34, 859-864
- 5 Some Comments on the Control of Linear and Bilinear Singularly Perturbed Systems Under Fast Sampling. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2001**, 34, 1055-1060
- 4 A PERTURBATION ESTIMATION TO SOLVE THE FUNDAMENTAL PROBLEM OF RESIDUAL GENERATION. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2002**, 35, 223-228
- 3 Observer-based output feedback consensus protocol for double-integrator multi-agent systems under intermittent sampled position measurements. *IFAC-PapersOnLine*, **2020**, 53, 3025-3030 0.7
- 2 On the Observation Analysis and Observer Design for a Class of Hybrid Continuous-Discrete Dynamic System. *Lecture Notes in Control and Information Sciences*, **2015**, 129-149 0.5
- 1 Event-triggered Control for Systems on Non-uniform Time Domains Using Measure Chain Theory. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 1-1 3.5