

Luis Aguilar

List of Publications by Year in descending order

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157
papers

2,283
citations

304602

22
h-index

265120

42
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170
all docs

170
docs citations

170
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of interval type-2 fuzzy logic controllers for a perturbed autonomous wheeled mobile robot using genetic algorithms. <i>Information Sciences</i> , 2009, 179, 2158-2174.	4.0	307
2	Analysis and synthesis of sliding mode control for large scale variable speed wind turbine for power optimization. <i>Renewable Energy</i> , 2014, 71, 715-728.	4.3	112
3	Designing Type-1 and Type-2 Fuzzy Logic Controllers via Fuzzy Lyapunov Synthesis for nonsmooth mechanical systems. <i>Engineering Applications of Artificial Intelligence</i> , 2012, 25, 971-979.	4.3	105
4	Fuzzy logic control with genetic membership function parameters optimization for the output regulation of a servomechanism with nonlinear backlash. <i>Expert Systems With Applications</i> , 2010, 37, 4368-4378.	4.4	93
5	Switched chattering control vs. backlash/friction phenomena in electrical servo-motors. <i>International Journal of Control</i> , 2003, 76, 959-967.	1.2	85
6	Systematic design of a stable type-2 fuzzy logic controller. <i>Applied Soft Computing Journal</i> , 2008, 8, 1274-1279.	4.1	84
7	Robust PID control of quadrotors with power reduction analysis. <i>ISA Transactions</i> , 2020, 98, 47-62.	3.1	81
8	Generating Self-Excited Oscillations via Two-Relay Controller. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 416-420.	3.6	63
9	Type-1 and Type-2 fuzzy logic controller design using a Hybrid PSO+GA optimization method. <i>Information Sciences</i> , 2014, 285, 35-49.	4.0	63
10	A hybrid optimization method with PSO and GA to automatically design Type-1 and Type-2 fuzzy logic controllers. <i>International Journal of Machine Learning and Cybernetics</i> , 2015, 6, 175-196.	2.3	55
11	Nonlinear H^∞ -control of nonsmooth time-varying systems with application to friction mechanical manipulators. <i>Automatica</i> , 2003, 39, 1531-1542.	3.0	50
12	Second order sliding mode tracking controller for inertia wheel pendulum. <i>Journal of the Franklin Institute</i> , 2013, 350, 92-106.	1.9	43
13	Reduction of power consumption on quadrotor vehicles via trajectory design and a controller-gains tuning stage. <i>Aerospace Science and Technology</i> , 2018, 78, 280-296.	2.5	43
14	Periodic motion planning and nonlinear H^∞ -tracking control of a 3-DOF underactuated helicopter. <i>International Journal of Systems Science</i> , 2011, 42, 829-838.	3.7	41
15	Global position regulation of friction manipulators via switched chattering control. <i>International Journal of Control</i> , 2003, 76, 1446-1452.	1.2	36
16	Advanced H^∞ Control. <i>Systems and Control: Foundations and Applications</i> , 2014, , .	0.1	36
17	Asymptotic harmonic generator and its application to finite time orbital stabilization of a friction pendulum with experimental verification. <i>International Journal of Control</i> , 2008, 81, 227-234.	1.2	34
18	Generation of walking periodic motions for a biped robot via genetic algorithms. <i>Applied Soft Computing Journal</i> , 2011, 11, 5306-5314.	4.1	34

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19	Leader-Follower Synchronization and ISS Analysis for a Network of Boundary-Controlled Wave PDEs. , 2021, 5, 683-688.		30
20	Chattering existence and attenuation in fuzzy-based sliding mode control. Engineering Applications of Artificial Intelligence, 2017, 61, 152-160.	4.3	28
21	Nonlinear H ∞ -Output Regulation of a Nonminimum Phase Servomechanism With Backlash. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 544-549.	0.9	27
22	A cognitive map and fuzzy inference engine model for online design and self fine-tuning of fuzzy logic controllers. International Journal of Intelligent Systems, 2009, 24, 1134-1173.	3.3	27
23	Intelligent control of dynamic systems using type-2 fuzzy logic and stability issues. International Mathematical Forum, 0, , 1371-1382.	0.2	27
24	Maximizing the performance of variable speed wind turbine with nonlinear output feedback control. Procedia Engineering, 2012, 35, 31-40.	1.2	25
25	High-order sliding-mode observer-based input-output linearization. International Journal of Robust and Nonlinear Control, 2019, 29, 3183-3199.	2.1	24
26	A family of anti-swing motion controllers for 2D-cranes with load hoisting/lowering. Mechanical Systems and Signal Processing, 2019, 133, 106253.	4.4	22
27	Generating oscillations in inertia wheel pendulum via two-relay controller. International Journal of Robust and Nonlinear Control, 2012, 22, 318-330.	2.1	21
28	Self-Oscillations in Dynamic Systems. Systems and Control: Foundations and Applications, 2015, , .	0.1	20
29	Prescribed-Time Robust Differentiator Design Using Finite Varying Gains. , 2022, 6, 620-625.		20
30	Generating self-excited oscillations for underactuated mechanical systems via two-relay controller. International Journal of Control, 2009, 82, 1678-1691.	1.2	19
31	Type-2 Fuzzy Logic Controllers Optimization Using Genetic Algorithms and Particle Swarm Optimization. , 2010, , .		19
32	Output feedback sliding mode control of a PVTOL including actuators dynamics. , 2011, , .		19
33	On synchronization of chaotic systems based on the Thau observer design. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 17-25.	1.7	19
34	Generic Nonsmooth H_∞ Output Synthesis: Application to a Coal-Fired Boiler/Turbine Unit With Actuator Dead Zone. IEEE Transactions on Control Systems Technology, 2015, 23, 2117-2128.	3.2	18
35	Sliding mode control synthesis of a 3-DOF helicopter prototype using position feedback. , 2008, , .		16
36	Hybrid Genetic-Fuzzy Optimization of a Type-2 Fuzzy Logic Controller. , 2008, , .		16

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37	Hybrid Control for an Autonomous Wheeled Mobile Robot Under Perturbed Torques. Lecture Notes in Computer Science, 2007, , 594-603.	1.0	15
38	Optimization of type-2 fuzzy logic controllers for mobile robots using evolutionary methods. , 2009, , .		15
39	Sensorless H \hat{z} speed-tracking synthesis for surface-mount permanent magnet synchronous motor. ISA Transactions, 2017, 67, 140-150.	3.1	15
40	Prescribed-Time Stabilization of Controllable Planar Systems Using Switched State Feedback. , 2021, 5, 2048-2053.		15
41	Model Orbit Robust Stabilization (MORS) of Pendubot with Application to Swing up Control. , 0, , .		14
42	Optimization with Genetic Algorithms of Interval Type-2 Fuzzy Logic controllers for an autonomous wheeled mobile robot: A comparison under different kinds of perturbations. , 2008, , .		14
43	Bio-inspired optimization of fuzzy logic controllers for autonomous mobile robots. , 2012, , .		14
44	Swing up and Balancing Control of Pendubot via Model Orbit Stabilization: Algorithm Synthesis and Experimental Verification. , 2006, , .		13
45	Nonsmooth $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0005.gif" overflow="scroll">\rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="script"} \rangle H \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \hat{z}$ synthesis of non-minimum-phase servo-systems with backlash. Control Engineering Practice, 2016. 46. 77-84.	3.2	13
46	A Lyapunov Analysis for Mamdani Type Fuzzy-Based Sliding Mode Control. IEEE Transactions on Fuzzy Systems, 2020, 28, 1887-1895.	6.5	13
47	Output sliding mode-based stabilization of underactuated 3-DOF helicopter prototype and its experimental verification. Journal of the Franklin Institute, 2015, 352, 1580-1594.	1.9	12
48	Genetic optimization of a Type-2 fuzzy controller for output regulation of a servomechanism with backlash. , 2008, , .		11
49	Quasihomogeneity Approach to the Pendubot Stabilization around Periodic Orbits. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 411-416.	0.4	10
50	Two relay controller for real time trajectory generation and its application to inverted orbital stabilization of inertia wheel pendulum via quasi-continuous HOSM. Asian Journal of Control, 2012, 14, 58-66.	1.9	10
51	A model-based velocity controller for chaotization of flexible joint robot manipulators. International Journal of Advanced Robotic Systems, 2018, 15, 172988141880252.	1.3	10
52	Optimization of Interval Type-2 Fuzzy Logic Controllers for a Perturbed Autonomous Wheeled Mobile Robot Using Genetic Algorithms. Studies in Computational Intelligence, 2008, , 3-18.	0.7	10
53	FPGA as a Tool for Implementing Non-fixed Structure Fuzzy Logic Controllers. , 2007, , .		9
54	Type-2 Fuzzy Logic in Control of Nonsmooth Systems. Studies in Fuzziness and Soft Computing, 2019, , .	0.6	9

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55	Non-smooth -position control of mechanical manipulators with frictional joints. International Journal of Control, 2004, 77, 1062-1069.	1.2	8
56	Impulsive control of a mechanical oscillator with friction. , 2009, , .		8
57	A T-S Fuzzy Logic Controller for biped robot walking based on adaptive network fuzzy inference system. , 2010, , .		8
58	Analysis and Synthesis of Global Nonlinear H ∞ Controller for Robot Manipulators. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	8
59	Discontinuous H ∞ control of underactuated mechanical systems with friction and backlash. International Journal of Control, Automation and Systems, 2016, 14, 1213-1222.	1.6	8
60	Optimization of Type-2 Fuzzy Logic Controllers Using PSO Applied to Linear Plants. Studies in Computational Intelligence, 2010, , 181-193.	0.7	8
61	Evolutionary optimization of interval type-2 membership functions using the Human Evolutionary Model. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	7
62	Robust quasi-continuous sliding-mode control of a variable-speed wind turbine. , 2012, , .		7
63	Robust sensorless speed tracking controller for surface-mount permanent magnet synchronous motors subjected to uncertain load variations. International Journal of Systems Science, 2020, 51, 35-48.	3.7	7
64	Robust observer design with prescribed settling-time bound and finite varying gains. European Journal of Control, 2022, 68, 100667.	1.6	7
65	Fuzzy Control for Output Regulation of a Servomechanism with Backlash. Studies in Computational Intelligence, 2008, , 19-28.	0.7	6
66	Identification based generation of self-excited oscillations for underactuated mechanical systems via two-relay algorithm. , 2008, , .		6
67	Nonsmooth h-infinity output regulation with application to a coal-fired boiler/turbine unit with actuator deadzone. , 2013, , .		6
68	Sensorless Nonsmooth H ∞ -Tracking Synthesis of Servosystems with Backlash and Coulomb Friction $\hat{=}$ $\hat{=}$ -Y. Orlov gratefully acknowledges the financial support from CONACYT (Consejo Nacional de Ciencia y Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	6
69	Fuzzy Slope Adaptation for the Sliding Mode Control of a Pneumatic Parallel Platform. International Journal of Fuzzy Systems, 2017, 19, 167-178.	2.3	6
70	Integral Sliding Modes with Nonlinear \langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"> \rangle \langle mml:mrow> \langle mml:mrow> \langle mml:mi mathvariant="script"> H \rangle \langle /mml:mi> \rangle \langle /mml:mrow> \langle mml:mrow> \langle mml:mi> \hat{z} \rangle \langle /mml:mi> \rangle \langle /mml:mrow> \langle /mml:mrow> \langle /mml:msub \langle mml:mrow \rangle \langle /mml:mrow> \rangle \langle /mml:math	1.6	6
71	Evolutionary Optimization of Type-2 Fuzzy Logic Systems Applied to Linear Plants. Studies in Computational Intelligence, 2009, , 17-31.	0.7	6
72	Inducing oscillations in an inertia wheel pendulum via two-relays controller: Theory and experiments. , 2009, , .		5

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73	Regulation and force control using sliding modes to reduce rebounds in a mechanical system subject to a unilateral constraint. IET Control Theory and Applications, 2012, 6, 2785-2792.	1.2	5
74	Stabilization of a 3-DOF underactuated helicopter prototype: Second order sliding mode algorithm synthesis, stability analysis, and numerical verification. , 2012, , .		5
75	$\hat{\sigma}^2$ -gain tuning of variable structure SISO systems of relative degree n . International Journal of Control, 2018, 91, 2422-2444.	1.2	5
76	Stability Analysis for Mamdani-Type Integral Fuzzy-Based Sliding-Mode Control of Systems Under Persistent Disturbances. IEEE Transactions on Fuzzy Systems, 2022, 30, 1640-1647.	6.5	5
77	Systematic Design of a Stable Type-2 Fuzzy Logic Controller. , 2008, , 319-331.		5
78	Periodic motion of underactuated mechanical systems self-generated by variable structure controllers: Design and experiments. , 2007, , .		5
79	A Generic Approach to Fuzzy Logic Controller Synthesis on FPGA. , 2006, , .		4
80	Output Excitation via Continuous Sliding-Modes to Generate Periodic Motion in Underactuated Systems. , 2006, , .		4
81	Output Excitation via Second-Order Sliding-Modes to Generate Periodic Motion for Underactuated Systems. , 0, , .		4
82	Performance analysis of Cognitive Map-Fuzzy Logic Controller model for adaptive control application. , 2008, , .		4
83	Sliding Mode Velocity-observer-based Stabilization of a 3-DOF Helicopter Prototype. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 179-184.	0.4	4
84	Output feedback second order sliding mode control design for a 3-DOF helicopter based on its simplified model. , 2010, , .		4
85	An Observer for the Type-1 Fuzzy Control of a Servomechanism with Backlash Using Only Motor Measurements. Studies in Computational Intelligence, 2010, , 405-421.	0.7	4
86	Periodic motion stabilization of a virtually constrained 3-DOF underactuated helicopter using second order sliding modes. , 2012, , .		4
87	Increasing Power Generation Efficiency in Horizontal Wind Turbines by Rejecting Electromechanical Uncertainties Due to the Wind. , 2022, 6, 217-222.		4
88	H ∞ Robust Control Design for an Arm Manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 2000, 27, 21-30.	2.0	3
89	Empirical and Sensor Knowledge-extraction for Fuzzy Logic Motor Control Design. , 2007, , .		3
90	Robust Orbital Stabilization of Pendubot: Algorithm Synthesis, Experimental Verification, and Application to Swing up and Balancing Control. , 2008, , 383-400.		3

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91	Output Feedback Nonlinear -Tracking Control of a Nonminimum-Phase 2-DOF Underactuated Mechanical System. Journal of Robotics, 2009, 2009, 1-10.	0.6	3
92	Designing Type-2 Fuzzy Logic System Controllers via Fuzzy Lyapunov Synthesis for the output regulator of a servomechanism with nonlinear backlash. , 2009, , .		3
93	Type-2 fuzzy load regulation of a servomechanism with backlash using only motor position measurements. , 2010, , .		3
94	Nonlinear Output Feedback H [∞] -Tracking Control of a 3-DOF Underactuated Helicopter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11145-11150.	0.4	3
95	Variable Structure Tracking Control-Observer for a Perturbed Inertia Wheel Pendulum via Position Measurements. IFAC-PapersOnLine, 2017, 50, 7151-7156.	0.5	3
96	Robust Positioning Control Law for a 3D Underactuated Crane System. IFAC-PapersOnLine, 2018, 51, 450-455.	0.5	3
97	Self-Sustaining Oscillations With an Internal Two-Fuzzy Inference System Based on the Poincaré-Bendixson Method. IEEE Transactions on Fuzzy Systems, 2022, 30, 2563-2573.	6.5	3
98	Self-excited oscillations in an inverted cart-pendulum based on the two-relay approach. ISA Transactions, 2022, 121, 306-315.	3.1	3
99	Two-Relay Controller and Its Application in Snake-Like Robot Motion: An Infinite-Dimensional Setting. , 2021, , .		3
100	Tracking Control for a Unicycle Mobile Robot Using a Fuzzy Logic Controller. , 2007, , 243-253.		3
101	Nonlinear H-Output Regulation of a Multi-stable Drive System including Backlash with a Single-Stability Approximation. Proceedings of the American Control Conference, 2007, , .	0.0	2
102	Genetic design of biped walking fuzzy logic controller. , 2009, , .		2
103	Feedback stabilization and force control using sliding modes in a mechanical system subject to unilateral constraints. , 2010, , .		2
104	Two-relay controller for real-time trajectory generation and its application to inverted orbital stabilization of inertia wheel pendulum. , 2010, , .		2
105	Self-oscillating relay feedback systems: A review and recent results. , 2012, , .		2
106	Sliding mode control with H _∞ attenuator for unmatched disturbances in a mechanical system with friction and a force constraint. , 2012, , .		2
107	Robust sensorless speed-tracking controller for surface-mount permanent magnet synchronous motors. , 2016, , .		2
108	Active Disturbance Rejection for a Three Degrees of Freedom Gyroscope. IFAC-PapersOnLine, 2018, 51, 372-377.	0.5	2

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109	Fuzzy Control for Wheeled Mobile Robots. Studies in Fuzziness and Soft Computing, 2019, , 85-96.	0.6	2
110	Self-excited periodic motion in underactuated mechanical systems using two-fuzzy inference system. Fuzzy Sets and Systems, 2021, , .	1.6	2
111	From Type-1 to Type-2 Fuzzy Logic Control: A Stability and Robustness Study. , 2007, , 135-149.		2
112	Robust output control of systems subjected to perturbations via high-order sliding modes observation and identification. , 2016, , 57-76.		2
113	Chattering Attenuation Using Linear-in-the-Parameter Neural Nets in Variable Structure Control of Robot Manipulators with Friction. , 2007, , 229-241.		2
114	State-Feedback Nonlinear H_{∞} Boundary Control for a Gantry Crane with Flexible Cable. , 2021, , .		2
115	Hybrid second-order sliding-mode tracking control for Acrobot. , 2005, , .		1
116	Synchronization of Mechanical Systems with a New Van der Pol Chaotic Oscillator. , 2006, , .		1
117	A Review on Self-oscillating Relay Feedback Systems and Its Application to Underactuated Systems with Degree of Underactuation One. Lecture Notes in Control and Information Sciences, 2013, , 187-205.	0.6	1
118	Fuzzy Control Synthesis for Systems with Discontinuous Friction. Studies in Fuzziness and Soft Computing, 2019, , 73-83.	0.6	1
119	L2-Gain analysis of sliding mode dynamics. , 2016, , 131-153.		1
120	Bio-inspired Optimization Methods of Fuzzy Logic Controllers Applied to Linear Plants. Advances in Intelligent and Soft Computing, 2010, , 245-252.	0.2	1
121	Neuro-Fuzzy Based Output Feedback Controller Design for Biped Robot Walking. Studies in Computational Intelligence, 2010, , 423-444.	0.7	1
122	Performance analysis of relay feedback position regulators for manipulators with Coulomb friction. , 2013, , .		1
123	Nonlinear H_{∞} Control. Systems and Control: Foundations and Applications, 2014, , 55-63.	0.1	1
124	Pendulum Position Based Fuzzy Regulator of the Furuta Pendulum – A Stable Closed-Loop System Design Approach. Lecture Notes in Computer Science, 2014, , 426-435.	1.0	1
125	Generation of Self-Oscillations in Systems with Double Integrator. Systems and Control: Foundations and Applications, 2015, , 109-119.	0.1	1
126	Self-tuning for a SISO-type Fuzzy Control Based on the Relay Feedback Approach. Studies in Computational Intelligence, 2019, , 171-186.	0.7	1

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127	Switched chattering control of electrical servo-motors and backlash/friction attenuation. , 0, , .		0
128	Application of a Discontinuous Controller with Chattering Attenuation to Unicycle Mobile Robots. , 0, , .		0
129	Finite Time Model Orbit Stabilization of Friction Pendulum. , 0, , .		0
130	A Cognitive Map-Fuzzy Logic Controller model: Experiments on control objectives sensibility. , 2008, , .		0
131	A fuzzy-genetic controller for the output regulation of a servomechanism with backlash. , 2009, , .		0
132	Two relay based control for orbital stabilization of inertia wheel pendulum—The bounded input case. , 2010, , .		0
133	Tracking control for inverted orbital stabilization of inertia wheel pendulum—Trajectory generation, stability analysis, and experiments. , 2011, , .		0
134	Orbital Stability Analysis of Two-Relay Controller in Second Order Systems via Lyapunov Functions and Its Application to a 3-DOF Underactuated Helicopter. , 2014, , .		0
135	Generic nonsmooth \hat{a}, \hat{a}^z output synthesis: Tracking control with application to a coal-fired boiler/turbine unit with input dead zone. , 2015, , .		0
136	Robust tracking control of servo systems with backlash: Nonsmooth ∞ control vs. linear ∞ control. , 2015, , .		0
137	Sensor Less Fuzzy Logic Tracking Control for a Servo System with Friction and Backlash. Studies in Computational Intelligence, 2017, , 603-613.	0.7	0
138	Adaptive H_{∞} Synthesis for Linear Systems with Uncertain Parameters. , 2018, , .		0
139	Fuzzy Lyapunov Synthesis for Nonsmooth Mechanical Systems. Studies in Fuzziness and Soft Computing, 2019, , 43-54.	0.6	0
140	Fuzzy Control for Biped Robots Under Impacts. Studies in Fuzziness and Soft Computing, 2019, , 97-120.	0.6	0
141	Genetic Optimization for the Design of Walking Patterns of a Biped Robot. Studies in Computational Intelligence, 2009, , 259-271.	0.7	0
142	Controlling Unstable Non-Minimum-Phase Systems with Fuzzy Logic: The Perturbed Case. Studies in Computational Intelligence, 2009, , 245-257.	0.7	0
143	An Application of Fuzzy Lyapunov Synthesis in the Design of Type-2 Fuzzy Logic Controllers. Advances in Intelligent and Soft Computing, 2010, , 229-236.	0.2	0
144	H_{∞} Generation of Periodic Motion of Mechanical Systems of One Degree of Underactuation. , 2014, , 169-190.		0

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145	The LMI Approach in an Infinite-Dimensional Setting. Systems and Control: Foundations and Applications, 2014, , 23-41.	0.1	0
146	Advanced \mathcal{H}_{∞} Synthesis of Fully Actuated Robot Manipulators with Frictional Joints. , 2014, , 123-149.		0
147	LMI-Based \mathcal{H}_{∞} Synthesis of the Current Profile in Tokamak Plasmas. , 2014, , 191-209.		0
148	Nonsmooth \mathcal{H}_{∞} Synthesis in the Presence of Backlash. , 2014, , 151-167.		0
149	Self-Oscillation via Locus of a Perturbed Relay System Design (LPRS). Systems and Control: Foundations and Applications, 2015, , 53-64.	0.1	0
150	Three Link Serial Structure Underactuated Robot. Systems and Control: Foundations and Applications, 2015, , 99-107.	0.1	0
151	Output-Based Robust Generation of Self-Oscillations via High-Order Sliding Modes Observer. Systems and Control: Foundations and Applications, 2015, , 81-88.	0.1	0
152	Describing Function-Based Design of TRC for Generation of Self-Oscillation. Systems and Control: Foundations and Applications, 2015, , 19-37.	0.1	0
153	Poincaré Map-Based Design. Systems and Control: Foundations and Applications, 2015, , 39-52.	0.1	0
154	Generating Self-Oscillations in Furuta Pendulum. Systems and Control: Foundations and Applications, 2015, , 91-98.	0.1	0
155	Fixed-Phase Loop (FPL). Systems and Control: Foundations and Applications, 2015, , 121-135.	0.1	0
156	Robustification of the Self-Oscillation via Sliding Modes Tracking Controllers. Systems and Control: Foundations and Applications, 2015, , 67-80.	0.1	0
157	Control Tuning to Guarantee the Output Performance of LTI Second-Order Systems. IFAC-PapersOnLine, 2020, 53, 4611-4616.	0.5	0