Jose de Jesus Rubio

List of Publications by Year
in descending order

163 papers	3,419 citations	159585 30 h-index	189892 50 g-index
167 all docs	167 docs citations	167 times ranked	2501 citing authors

#	Article	IF	Citations
1	SOFMLS: Online Self-Organizing Fuzzy Modified Least-Squares Network. IEEE Transactions on Fuzzy Systems, 2009, 17, 1296-1309.	9.8	311
2	Robust feedback linearization for nonlinear processes control. ISA Transactions, 2018, 74, 155-164.	5.7	126
3	Stability Analysis of the Modified Levenbergâ€“Marquardt Algorithm for the Artificial Neural Network Training. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3510-3524.	11.3	116
4	Nonlinear system identification with recurrent neural networks and dead-zone Kalman filter algorithm. Neurocomputing, 2007, 70, 2460-2466.	5.9	91
5	Stability Analysis of Nonlinear System Identification via Delayed Neural Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2007, 54, 161-165.	3.0	89
6	Modified optimal control with a backpropagation network for robotic arms. IET Control Theory and Applications, 2012, 6, 2216-2225.	2.1	81
7	Uniformly Stable Backpropagation Algorithm to Train a Feedforward Neural Network. IEEE Transactions on Neural Networks, 2011, 22, 356-366.	4.2	79
8	Structure Regulator for the Perturbations Attenuation in a Quadrotor. IEEE Access, 2019, 7, 138244-138252.	4.2	73
9	Novel Nonlinear Hypothesis for the Delta Parallel Robot Modeling. IEEE Access, 2020, 8, 46324-46334.	4.2	73
10	Adapting H-infinity controller for the desired reference tracking of the sphere position in the maglev process. Information Sciences, 2021, 569, 669-686.	6.9	68
11	Discrete time control based in neural networks for pendulums. Applied Soft Computing Journal, 2018, 68, 821-832.	7.2	65
12	Neural network updating via argument Kalman filter for modeling of Takagi-Sugeno fuzzy models. Journal of Intelligent and Fuzzy Systems, 2018, 35, 2585-2596.	1.4	56
13	Modeling and control with neural networks for a magnetic levitation system. Neurocomputing, 2017, 227, 113-121.	5.9	55
14	Modeling and Control of Wind Turbine. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	53
15	USNFIS: Uniform stable neuro fuzzy inference system. Neurocomputing, 2017, 262, 57-66.	5.9	52
16	Evolving intelligent algorithms for the modelling of brain and eye signals. Applied Soft Computing Journal, 2014, 14, 259-268.	7.2	47
17	Asynchronous Filtering for Discrete-Time Fuzzy Affine Systems With Variable Quantization Density. IEEE Transactions on Cybernetics, 2017, 47, 153-164.	9.5	47
18	Stabilization of Robots With a Regulator Containing the Sigmoid Mapping. IEEE Access, 2020, 8, 89479-89488.	4.2	47

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19	Convergent newton method and neural network for the electric energy usage prediction. Information Sciences, 2022, 585, 89-112.	6.9	45
20	Uniform stable observer for the disturbance estimation in two renewable energy systems. ISA Transactions, 2015, 58, 155-164.	5.7	43
21	Recurrent Neural Networks Training With Stable Bounding Ellipsoid Algorithm. IEEE Transactions on Neural Networks, 2009, 20, 983-991.	4.2	42
22	Hybrid controller with observer for the estimation and rejection of disturbances. ISA Transactions, 2016, 65, 445-455.	5.7	42
23	Stable Kalman filter and neural network for the chaotic systems identification. Journal of the Franklin Institute, 2017, 354, 7444-7462.	3.4	40
24	Comparison of two quadrotor dynamic models. IEEE Latin America Transactions, 2014, 12, 531-537.	1.6	39
25	A novel recurrent neural network soft sensor via a differential evolution training algorithm for the tire contact patch. Neurocomputing, 2017, 235, 71-82.	5.9	39
26	Design of Stabilizers and Observers for a Class of Multivariable Tâ€“S Fuzzy Models on the Basis of New Interpolation Functions. IEEE Transactions on Fuzzy Systems, 2018, 26, 2649-2662.	9.8	38
27	Adaptive least square control in discrete time of robotic arms. Soft Computing, 2015, 19, 3665-3676.	3.6	36
28	Optimization of Sliding Mode Control to Save Energy in a SCARA Robot. Mathematics, 2021, 9, 3160.	2.2	36
29	Modified Linear Technique for the Controllability and Observability of Robotic Arms. IEEE Access, 2022, 10, 3366-3377.	4.2	36
30	Identification and control of class of nonâ€linear systems with nonâ€symmetric deadzone using recurrent neural networks. IET Control Theory and Applications, 2014, 8, 183-192.	2.1	34
31	Sliding mode control of robotic arms with deadzone. IET Control Theory and Applications, 2017, 11, 1214-1221.	2.1	34
32	Evolving intelligent system for the modelling of nonlinear systems with dead-zone input. Applied Soft Computing Journal, 2014, 14, 289-304.	7.2	32
33	Least square neural network model of the crude oil blending process. Neural Networks, 2016, 78, 88-96.	5.9	31
34	Structure control for the disturbance rejection in two electromechanical processes. Journal of the Franklin Institute, 2016, 353, 3610-3631.	3.4	30
35	Uniform stable radial basis function neural network for the prediction in two mechatronic processes. Neurocomputing, 2017, 227, 122-130.	5.9	30
36	ANFIS system for classification of brain signals. Journal of Intelligent and Fuzzy Systems, 2019, 37, 4033-4041.	1.4	30

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37	Tracking Control Based on Recurrent Neural Networks for Nonlinear Systems with Multiple Inputs and Unknown Deadzone. Abstract and Applied Analysis, 2012, 2012, 1-18.	0.7	29
38	Backpropagation to train an evolving radial basis function neural network. Evolving Systems, 2010, 1, 173-180.	3.9	28
39	Discrete-time Kalman filter for Takagiâ€“Sugeno fuzzy models. Evolving Systems, 2017, 8, 211-219.	3.9	28
40	Genetic Algorithm with Radial Basis Mapping Network for the Electricity Consumption Modeling. Applied Sciences (Switzerland), 2020, 10, 4239.	2.5	28
41	MSAFIS: an evolving fuzzy inference system. Soft Computing, 2017, 21, 2357-2366.	3.6	27
42	The Perturbations Estimation in Two Gas Plants. IEEE Access, 2020, 8, 83081-83091.	4.2	27
43	The Regulation of an Electric Oven and an Inverted Pendulum. Symmetry, 2022, 14, 759.	2.2	27
44	A new discrete-time sliding-mode control with time-varying gain and neural identification. International Journal of Control, 2006, 79, 338-348.	1.9	26
45	Modelling and regulation of two mechanical systems. IET Science, Measurement and Technology, 2018, 12, 657-665.	1.6	26
46	Learning of operator hand movements via least angle regression to be teached in a manipulator. Evolving Systems, 2020, 11, 317-332.	3.9	26
47	Hessian with Mini-Batches for Electrical Demand Prediction. Applied Sciences (Switzerland), 2020, 10, 2036.	2.5	25
48	Stable optimal control applied to a cylindrical robotic arm. Neural Computing and Applications, 2014, 24, 937-944.	5.6	24
49	A Fuzzy Logic Model for Hourly Electrical Power Demand Modeling. Electronics (Switzerland), 2021, 10, 448.	3.1	24
50	Assessment of an Average Tracking Controller that Considers all the Subsystems Involved in a WMR: Implementation via PWM or Sigma-Delta Modulation. IEEE Latin America Transactions, 2016, 14, 1093-1102.	1.6	23
51	Error convergence analysis of the SUFIN and CSUFIN. Applied Soft Computing Journal, 2018, 72, 587-595.	7.2	22
52	A method for online pattern recognition of abnormal eye movements. Neural Computing and Applications, 2013, 22, 597-605.	5.6	21
53	PID Anti-Vibration Control of a Robotic Arm. IEEE Latin America Transactions, 2016, 14, 3144-3150.	1.6	21
54	Transformed Structural Properties Method to Determine the Controllability and Observability of Robots. Applied Sciences (Switzerland), 2021, 11, 3082.	2.5	21

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55	Robust Adaptive Neurocontrol of SISO Nonlinear Systems Preceded by Unknown Deadzone. Mathematical Problems in Engineering, 2012, 2012, 1-23.	1.1	19
56	A method with neural networks for the classification of fruits and vegetables. Soft Computing, 2017, 21, 7207-7220.	3.6	19
57	Peer-to-peer energy trades based on multi-objective optimization. International Journal of Electrical Power and Energy Systems, 2021, 131, 107017.	5.5	19
58	Color-Based Image Segmentation by Means of a Robust Intuitionistic Fuzzy C-means Algorithm. International Journal of Fuzzy Systems, 2020, 22, 901-916.	4.0	18
59	An stable online clustering fuzzy neural network for nonlinear system identification. Neural Computing and Applications, 2009, 18, 633-641.	5.6	17
60	Proportional Derivative Control with Inverse Dead-Zone for Pendulum Systems. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	17
61	An Electricity Generator Based on the Interaction of Static and Dynamic Magnets. IEEE Transactions on Magnetics, 2019, 55, 1-11.	2.1	17
62	System Identification Using Multilayer Differential Neural Networks: A New Result. Journal of Applied Mathematics, 2012, 2012, 1-20.	0.9	16
63	Robust fault diagnosis of disturbed linear systems via a sliding mode high order differentiator. International Journal of Control, 2012, 85, 648-659.	1.9	16
64	Inverse kinematics of a mobile robot. Neural Computing and Applications, 2013, 23, 187-194.	5.6	16
65	Acquisition system and approximation of brain signals. IET Science, Measurement and Technology, 2013, 7, 232-239.	1.6	16
66	State estimation in MIMO nonlinear systems subject to unknown deadzones using recurrent neural networks. Neural Computing and Applications, 2014, 25, 693-701.	5.6	16
67	Experimental vision regulation of a quadrotor. IEEE Latin America Transactions, 2015, 13, 2514-2523.	1.6	16
68	Stabilization of Two Electricity Generators. Complexity, 2020, 2020, 1-13.	1.6	16
69	Trajectory planning and collisions detector for robotic arms. Neural Computing and Applications, 2012, 21, 2105-2114.	5.6	15
70	Hierarchical fuzzy CMAC control for nonlinear systems. Neural Computing and Applications, 2013, 23, 323-331.	5.6	15
71	Passivity analysis and modeling of robotic arms. IEEE Latin America Transactions, 2014, 12, 1389-1397.	1.6	15
72	An observer with controller to detect and reject disturbances. International Journal of Control, 2014, 87, 524-536.	1.9	15

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73	Characterisation framework for epileptic signals. IET Image Processing, 2012, 6, 1227-1235.	2.5	14
74	Control of Uncertain Plants with Unknown Deadzone via Differential Neural Networks. IEEE Latin America Transactions, 2015, 13, 2085-2093.	1.6	14
75	Control of two Electrical Plants. Asian Journal of Control, 2018, 20, 1504-1518.	3.0	14
76	Unscented Kalman filter for learning of a solar dryer and a greenhouse. Journal of Intelligent and Fuzzy Systems, 2019, 37, 6731-6741.	1.4	14
77	Inducing sustained oscillations in feedback-linearizable single-input nonlinear systems. ISA Transactions, 2015, 54, 117-124.	5.7	13
78	Disturbance Rejection in Two Mechatronic Systems. IEEE Latin America Transactions, 2016, 14, 485-492.	1.6	13
79	Sliding Mode Regulator for the Perturbations Attenuation in Two Tank Plants. IEEE Access, 2017, 5, 20504-20511.	4.2	13
80	On the Stabilization of the Inverted-Cart Pendulum Using the Saturation Function Approach. Mathematical Problems in Engineering, 2011, 2011, 1-14.	1.1	12
81	Geometric approach and structure at infinity controls for the disturbance rejection. IET Control Theory and Applications, 2012, 6, 2528-2537.	2.1	12
82	Stabilization of the Ball on the Beam System by Means of the Inverse Lyapunov Approach. Mathematical Problems in Engineering, 2012, 2012, 1-13.	1.1	12
83	Dual PD Control Regulation with Nonlinear Compensation for a Ball and Plate System. Mathematical Problems in Engineering, 2014, 2014, 1-10.	1.1	12
84	Analytic neural network model of a wind turbine. Soft Computing, 2015, 19, 3455-3463.	3.6	12
85	Interpolation neural network model of a manufactured wind turbine. Neural Computing and Applications, 2017, 28, 2017-2028.	5.6	12
86	An efficient nonlinear approach for removing fixed-value impulse noise from grayscale images. Journal of Real-Time Image Processing, 2018, 14, 617-633.	3.5	12
87	Output-Feedback Stabilization of the PVTOL Aircraft System Based on an Exact Differentiator. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 90, 443-454.	3.4	11
88	Robust c-prototypes algorithms for color image segmentation. Eurasip Journal on Image and Video Processing, 2013, 2013, .	2.6	10
89	Stabilization of the robotic arms. IEEE Latin America Transactions, 2015, 13, 2567-2573.	1.6	10
90	Fuzzy slopes model of nonlinear systems with sparse data. Soft Computing, 2015, 19, 3507-3514.	3.6	9

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91	Robust Gaussianâ€base radial kernel fuzzy clustering algorithm for image segmentation. Electronics Letters, 2019, 55, 835-837.	1.0	9
92	Noise gradient strategy for an enhanced hybrid convolutional-recurrent deep network to control a self-driving vehicle. Applied Soft Computing Journal, 2020, 92, 106258.	7.2	9
93	MÃnimos Cuadrados Recursivos para un Manipulador que Aprende por DemostraciÃ³n. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2019, 16, 147.	1.0	9
94	Dead-zone Kalman filter algorithm for recurrent neural networks. , 0, , .		8
95	Comparison of four mathematical models for braking of a motorcycle. IEEE Latin America Transactions, 2011, 9, 630-637.	1.6	8
96	Stable and optimal controls of a proton exchange membrane fuel cell. International Journal of Control, 2014, , 1-24.	1.9	8
97	Dynamic model with sensor and actuator for an articulated robotic arm. Neural Computing and Applications, 2014, 24, 573-581.	5.6	8
98	On the Rejection of Random Perturbations and the Tracking of Random References in a Quadrotor. Complexity, 2022, 2022, 1-16.	1.6	8
99	A new on-line self-constructing neural fuzzy network. , 2006, , .		7
100	State estimation for T-S fuzzy affine systems with variable quantization density. , 2015, , .		7
101	A fuzzy inference system for the identification. IEEE Latin America Transactions, 2015, 13, 2823-2829.	1.6	7
102	A Novel Dynamic Three-Level Tracking Controller for Mobile Robots Considering Actuators and Power Stage Subsystems: Experimental Assessment. Sensors, 2020, 20, 4959.	3.8	7
103	COMPARISON BETWEEN ADIABATIC AND NONADIABATIC ABSORPTION CHILLERS USING AMMONIA-LITHIUM NITRATE AND WATER-LITHIUM BROMIDE SOLUTIONS. Heat Transfer Research, 2020, 51, 609-621.	1.6	7
104	Dynamic Model of a Wind Turbine for the Electric Energy Generation. Mathematical Problems in Engineering, 2014, 2014, 1-8.	1.1	6
105	Mathematical model with sensor and actuator for a transelevator. Neural Computing and Applications, 2014, 24, 277-285.	5.6	6
106	Synchronization of Discrete-Time Chaotic Fuzzy Systems by means of Fuzzy Output Regulation Using Genetic Algorithm. Mathematical Problems in Engineering, 2015, 2015, 1-18.	1.1	6
107	Topâ€“Down Sparse Fuzzy Regression Modeling from Data with Improved Coverage. International Journal of Fuzzy Systems, 2017, 19, 1645-1658.	4.0	6
108	VSC-HVDC and Its Applications for Black Start Restoration Processes. Applied Sciences (Switzerland), 2021, 11, 5648.	2.5	6

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109	Neural network training with optimal bounded ellipsoid algorithm. Neural Computing and Applications, 2009, 18, 623-631.	5.6	5
110	Experimental control of a fuel cell. IEEE Latin America Transactions, 2015, 13, 2935-2940.	1.6	5
111	A limit set stabilization by means of the Port Hamiltonian system approach. International Journal of Robust and Nonlinear Control, 2015, 25, 1739-1750.	3.7	5
112	Stabilization of the Inverted Cart-Pendulum System with Linear Friction. IEEE Latin America Transactions, 2018, 16, 1650-1657.	1.6	5
113	General controllability and observability tests for Takagi-Sugeno fuzzy systems. Evolving Systems, 2020, 11, 349-358.	3.9	5
114	An Algebraic Fuzzy Pole Placement Approach to Stabilize Nonlinear Mechanical Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 3322-3332.	9.8	5
115	Recurrent neural networks training with stable risk-sensitive Kalman filter algorithm. , 0, , .		4
116	Modeling of the relative humidity via functional networks and control of the temperature via classic controls for a bird incubator. Neural Computing and Applications, 2012, 21, 1491-1500.	5.6	4
117	Optimal Control of a PEM Fuel Cell for the Inputs Minimization. Mathematical Problems in Engineering, 2014, 2014, 1-7.	1.1	4
118	Comparison Between Two Observers. IEEE Latin America Transactions, 2016, 14, 2077-2084.	1.6	4
119	Impulsive noise filtering using a Median Redescending M-Estimator. Intelligent Data Analysis, 2017, 21, 739-754.	0.9	4
120	Editorial: Advances in Robots Trajectories Learning via Fast Neural Networks. Frontiers in Neurorobotics, 2021, 15, 671519.	2.8	4
121	Singularity-Free Neural Control for the Exponential Trajectory Tracking in Multiple-Input Uncertain Systems with Unknown Deadzone Nonlinearities. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	3
122	Variable Structure Model of an Articulated Robotic Arm. IEEE Latin America Transactions, 2015, 13, 3794-3802.	1.6	3
123	Acquisition System and Analytic Fuzzy Model of a Manufactured Wind Turbine. IEEE Latin America Transactions, 2015, 13, 3879-3884.	1.6	3
124	A novel algorithm for the modeling of complex processes. Kybernetika, 0, , 79-95.	0.0	3
125	MÃnimos cuadrados recursivos para un manipulador que aprende por demostraciÃ³n. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 0, , .	1.0	3
126	Recurrent neural networks training with optimal bounded ellipsoid algorithm. Proceedings of the American Control Conference, 2007, , .	0.0	2

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127	A Fuzzy Algorithm for the Prediction of Future Data. IEEE Latin America Transactions, 2017, 15, 1361-1367.	1.6	2
128	A Luenberger-Like Observer for Multistable Kapitaniak Chaotic System. Complexity, 2020, 2020, 1-12.	1.6	2
129	Accelerated intuitionistic fuzzy clustering for image segmentation. Signal, Image and Video Processing, 2021, 15, 1845-1852.	2.7	2
130	Parallel hesitant fuzzy C-means algorithm to image segmentation. Signal, Image and Video Processing, 2022, 16, 73-81.	2.7	2
131	Discrete-Time Sliding-Mode Control Based on Neural Networks. Lecture Notes in Computer Science, 2006, , 956-961.	1.3	2
132	Pattern recognition of eye movements. , 2009, , .		1
133	Modeling via on-line clustering and fuzzy support vector machines for nonlinear system. , 2011, , .		1
134	Advances in Neural Networks and Hybrid-Metaheuristics: Theory, Algorithms, and Novel Engineering Applications. Computational Intelligence and Neuroscience, 2016, 2016, 1-1.	1.7	1
135	States Estimation in Two Mechanical Systems. IEEE Latin America Transactions, 2016, 14, 3159-3167.	1.6	1
136	Classification via an Embedded Approach. Designs, 2017, 1, 7.	2.4	1
137	Shaping Energy for the Stabilization of an Unmanned Aircfrat. , 2018, , .		1
138	On the output regulation for linear fractional systems. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 4442-4455.	1.4	1
139	Editorial: Booming of Neural Networks and Learning Systems. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2-10.	11.3	1
140	Trajectory tracking of the robot end effector for the minimally invasive surgeries. International Journal of Business Intelligence and Data Mining, 2020, 16, 66.	0.2	1
141	A Robust Control Strategy for Landing an Unmanned Aerial Vehicle on a Vertically Moving Platform. Complexity, 2020, 2020, 1-13.	1.6	1
142	Movable and immovable magnets for two machines. International Journal of Applied Electromagnetics and Mechanics, 2020, 63, 229-248.	0.6	1
143	Quadrotor stabilization by Fuzzy Kalman Filter. Journal of Intelligent and Fuzzy Systems, 2020, 38, 4485-4494.	1.4	1
144	Editorial: Anticipatory Systems: Humans Meet Artificial Intelligence. Frontiers in Psychology, 2021, 12, 721879.	2.1	1

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145	Modeling of the Relative Humidity and Control of the Temperature for a Bird Incubator. Advances in Intelligent and Soft Computing, 2009, , 369-377.	0.2	1
146	Mathematical Model of Low-Pass Filters. Recent Patents on Engineering, 2011, 5, 155-162.	0.4	1
147	Trajectory tracking of the robot end-effector for the minimally invasive surgeries. International Journal of Business Intelligence and Data Mining, 2018, 1, 1.	0.2	1
148	Proactive Cross-Layer Framework Based on Classification Techniques for Handover Decision on WLAN Environments. Electronics (Switzerland), 2022, 11, 712.	3.1	1
149	Performance Assessment of Low-Temperature Solar Collector with Fullerenes C60 Manufactured at Low Cost in an Emerging Country. Applied Sciences (Switzerland), 2022, 12, 3161.	2.5	1
150	On the Output-Feedback Regulation for a Second-Order System with Unknown Parameters: An I&I and MRAC Based Approach. Acta Applicandae Mathematicae, 2021, 176, 1.	1.0	1
151	Time-Delay Nonlinear System Modelling via Delayed Neural Networks. , 2006, , .		0
152	An evolving neuro-fuzzy recurrent network. , 2009, , .		0
153	An Uniformly Stable Observer for Tire Friction Estimation During Braking Process. Recent Patents on Engineering, 2010, 4, 73-77.	0.4	0
154	Modeling of Four Nonlinear Electronic Circuits. Recent Patents on Electrical Engineering, 2010, 3, 35-42.	0.4	0
155	Quasipolynomials and the structure at infinity of linear systems with delay. International Journal of Systems, Control and Communications, 2011, 3, 302.	0.3	0
156	Wind turbine modeling with an analytic algorithm. , 2014, , .		0
157	Wind turbine modeling with the slopes algorithm. , 2014, , .		0
158	Fuzzy linear control of a hexarotor. , 2018, , .		0
159	On the Output Regulation Problem: The Generalized Second-Order Underactuated Linear System Case. Mathematical Problems in Engineering, 2018, 2018, 1-11.	1.1	0
160	Modeling of a HVAC system for clean rooms. IEEE Latin America Transactions, 2018, 16, 829-838.	1.6	0
161	Guest editorial - Pattern recognition, optimization, neural computing and applications in smart city. Computer Science and Information Systems, 2021, 18, iii-iv.	1.0	0
162	A Transelevator Moving Inside of an Automatic Warehouse in Virtual Reality. Advances in Intelligent and Soft Computing, 2009, , 407-414.	0.2	0

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163	An Sliding Mode Control for an Elbow Arm. Advances in Intelligent and Soft Computing, 2009, , 503-508.	0.2	0