Jose de Jesus Rubio

List of Publications by Year
in descending order

163 papers	3,419 citations	182225 30 h-index	214428 50 g-index
167 all docs	167 docs citations	167 times ranked	2742 citing authors

#	Article	IF	Citations
1	An Algebraic Fuzzy Pole Placement Approach to Stabilize Nonlinear Mechanical Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 3322-3332.	6.5	5
2	Parallel hesitant fuzzy C-means algorithm to image segmentation. Signal, Image and Video Processing, 2022, 16, 73-81.	1.7	2
3	Convergent newton method and neural network for the electric energy usage prediction. Information Sciences, 2022, 585, 89-112.	4.0	45
4	On the Rejection of Random Perturbations and the Tracking of Random References in a Quadrotor. Complexity, 2022, 2022, 1-16.	0.9	8
5	Modified Linear Technique for the Controllability and Observability of Robotic Arms. IEEE Access, 2022, 10, 3366-3377.	2.6	36
6	Proactive Cross-Layer Framework Based on Classification Techniques for Handover Decision on WLAN Environments. Electronics (Switzerland), 2022, 11, 712.	1.8	1
7	Performance Assessment of Low-Temperature Solar Collector with Fullerenes C60 Manufactured at Low Cost in an Emerging Country. Applied Sciences (Switzerland), 2022, 12, 3161.	1.3	1
8	The Regulation of an Electric Oven and an Inverted Pendulum. Symmetry, 2022, 14, 759.	1.1	27
9	Stability Analysis of the Modified Levenberg–Marquardt Algorithm for the Artificial Neural Network Training. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3510-3524.	7.2	116
10	A Fuzzy Logic Model for Hourly Electrical Power Demand Modeling. Electronics (Switzerland), 2021, 10, 448.	1.8	24
11	Editorial: Advances in Robots Trajectories Learning via Fast Neural Networks. Frontiers in Neurorobotics, 2021, 15, 671519.	1.6	4
12	Transformed Structural Properties Method to Determine the Controllability and Observability of Robots. Applied Sciences (Switzerland), 2021, 11, 3082.	1.3	21
13	Accelerated intuitionistic fuzzy clustering for image segmentation. Signal, Image and Video Processing, 2021, 15, 1845-1852.	1.7	2
14	VSC-HVDC and Its Applications for Black Start Restoration Processes. Applied Sciences (Switzerland), 2021, 11, 5648.	1.3	6
15	Editorial: Anticipatory Systems: Humans Meet Artificial Intelligence. Frontiers in Psychology, 2021, 12, 721879.	1.1	1
16	Adapting H-infinity controller for the desired reference tracking of the sphere position in the maglev process. Information Sciences, 2021, 569, 669-686.	4.0	68
17	Peer-to-peer energy trades based on multi-objective optimization. International Journal of Electrical Power and Energy Systems, 2021, 131, 107017.	3.3	19
18	Guest editorial - Pattern recognition, optimization, neural computing and applications in smart city. Computer Science and Information Systems, 2021, 18, iii-iv.	0.7	0

#	ARTICLE	IF	CITATIONS
19	Optimization of Sliding Mode Control to Save Energy in a SCARA Robot. Mathematics, 2021, 9, 3160.	1.1	36
20	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.	0.5	1
21	Learning of operator hand movements via least angle regression to be teached in a manipulator. Evolving Systems, 2020, 11, 317-332.	2.4	26
22	General controllability and observability tests for Takagi-Sugeno fuzzy systems. Evolving Systems, 2020, 11, 349-358.	2.4	5
23	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
24	Stabilization of Robots With a Regulator Containing the Sigmoid Mapping. IEEE Access, 2020, 8, 89479-89488.	2.6	47
25	A Robust Control Strategy for Landing an Unmanned Aerial Vehicle on a Vertically Moving Platform. Complexity, 2020, 2020, 1-13.	0.9	1
26	A Novel Dynamic Three-Level Tracking Controller for Mobile Robots Considering Actuators and Power Stage Subsystems: Experimental Assessment. Sensors, 2020, 20, 4959.	2.1	7
27	A Luenberger-Like Observer for Multistable Kapitaniak Chaotic System. Complexity, 2020, 2020, 1-12.	0.9	2
28	Stabilization of Two Electricity Generators. Complexity, 2020, 2020, 1-13.	0.9	16
29	Movable and immovable magnets for two machines. International Journal of Applied Electromagnetics and Mechanics, 2020, 63, 229-248.	0.3	1
30	The Perturbations Estimation in Two Gas Plants. IEEE Access, 2020, 8, 83081-83091.	2.6	27
31	Quadrotor stabilization by Fuzzy Kalman Filter. Journal of Intelligent and Fuzzy Systems, 2020, 38, 4485-4494.	0.8	1
32	Novel Nonlinear Hypothesis for the Delta Parallel Robot Modeling. IEEE Access, 2020, 8, 46324-46334.	2.6	73
33	Color-Based Image Segmentation by Means of a Robust Intuitionistic Fuzzy C-means Algorithm. International Journal of Fuzzy Systems, 2020, 22, 901-916.	2.3	18
34	Genetic Algorithm with Radial Basis Mapping Network for the Electricity Consumption Modeling. Applied Sciences (Switzerland), 2020, 10, 4239.	1.3	28
35	Hessian with Mini-Batches for Electrical Demand Prediction. Applied Sciences (Switzerland), 2020, 10, 2036.	1.3	25
36	Noise gradient strategy for an enhanced hybrid convolutional-recurrent deep network to control a self-driving vehicle. Applied Soft Computing Journal, 2020, 92, 106258.	4.1	9

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37	COMPARISON BETWEEN ADIABATIC AND NONADIABATIC ABSORPTION CHILLERS USING AMMONIA-LITHIUM NITRATE AND WATER-LITHIUM BROMIDE SOLUTIONS. Heat Transfer Research, 2020, 51, 609-621.	0.9	7
38	Robust Gaussianâ€base radial kernel fuzzy clustering algorithm for image segmentation. Electronics Letters, 2019, 55, 835-837.	0.5	9
39	Unscented Kalman filter for learning of a solar dryer and a greenhouse. Journal of Intelligent and Fuzzy Systems, 2019, 37, 6731-6741.	0.8	14
40	Structure Regulator for the Perturbations Attenuation in a Quadrotor. IEEE Access, 2019, 7, 138244-138252.	2.6	73
41	ANFIS system for classification of brain signals. Journal of Intelligent and Fuzzy Systems, 2019, 37, 4033-4041.	0.8	30
42	An Electricity Generator Based on the Interaction of Static and Dynamic Magnets. IEEE Transactions on Magnetics, 2019, 55, 1-11.	1.2	17
43	On the output regulation for linear fractional systems. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 4442-4455.	0.9	1
44	Editorial: Booming of Neural Networks and Learning Systems. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2-10.	7.2	1
45	MÃnimos Cuadrados Recursivos para un Manipulador que Aprende por DemostraciÃ³n. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2019, 16, 147.	0.6	9
46	Error convergence analysis of the SUFIN and CSUFIN. Applied Soft Computing Journal, 2018, 72, 587-595.	4.1	22
47	Robust feedback linearization for nonlinear processes control. ISA Transactions, 2018, 74, 155-164.	3.1	126
48	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.	6.5	38
49	An efficient nonlinear approach for removing fixed-value impulse noise from grayscale images. Journal of Real-Time Image Processing, 2018, 14, 617-633.	2.2	12
50	Discrete time control based in neural networks for pendulums. Applied Soft Computing Journal, 2018, 68, 821-832.	4.1	65
51	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.	2.0	11
52	Control of two Electrical Plants. Asian Journal of Control, 2018, 20, 1504-1518.	1.9	14
53	Fuzzy linear control of a hexarotor. , 2018, , .		0
54	On the Output Regulation Problem: The Generalized Second-Order Underactuated Linear System Case. Mathematical Problems in Engineering, 2018, 2018, 1-11.	0.6	0

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55	Shaping Energy for the Stabilization of an Unmanned Aircfrat. , 2018, , .		1
56	Modeling of a HVAC system for clean rooms. IEEE Latin America Transactions, 2018, 16, 829-838.	1.2	0
57	Stabilization of the Inverted Cart-Pendulum System with Linear Friction. IEEE Latin America Transactions, 2018, 16, 1650-1657.	1.2	5
58	Neural network updating via argument Kalman filter for modeling of Takagi-Sugeno fuzzy models. Journal of Intelligent and Fuzzy Systems, 2018, 35, 2585-2596.	0.8	56
59	Modelling and regulation of two mechanical systems. IET Science, Measurement and Technology, 2018, 12, 657-665.	0.9	26
60	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
61	Asynchronous Filtering for Discrete-Time Fuzzy Affine Systems With Variable Quantization Density. IEEE Transactions on Cybernetics, 2017, 47, 153-164.	6.2	47
62	MSAFIS: an evolving fuzzy inference system. Soft Computing, 2017, 21, 2357-2366.	2.1	27
63	Interpolation neural network model of a manufactured wind turbine. Neural Computing and Applications, 2017, 28, 2017-2028.	3.2	12
64	A method with neural networks for the classification of fruits and vegetables. Soft Computing, 2017, 21, 7207-7220.	2.1	19
65	A novel recurrent neural network soft sensor via a differential evolution training algorithm for the tire contact patch. Neurocomputing, 2017, 235, 71-82.	3.5	39
66	Discrete-time Kalman filter for Takagiâ€"Sugeno fuzzy models. Evolving Systems, 2017, 8, 211-219.	2.4	28
67	Stable Kalman filter and neural network for the chaotic systems identification. Journal of the Franklin Institute, 2017, 354, 7444-7462.	1.9	40
68	A Fuzzy Algorithm for the Prediction of Future Data. IEEE Latin America Transactions, 2017, 15, 1361-1367.	1.2	2
69	Impulsive noise filtering using a Median Redescending M-Estimator. Intelligent Data Analysis, 2017, 21, 739-754.	0.4	4
70	Topâ€"Down Sparse Fuzzy Regression Modeling from Data with Improved Coverage. International Journal of Fuzzy Systems, 2017, 19, 1645-1658.	2.3	6
71	Uniform stable radial basis function neural network for the prediction in two mechatronic processes. Neurocomputing, 2017, 227, 122-130.	3.5	30
72	Sliding mode control of robotic arms with deadzone. IET Control Theory and Applications, 2017, 11, 1214-1221.	1.2	34

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73	Modeling and control with neural networks for a magnetic levitation system. Neurocomputing, 2017, 227, 113-121.	3.5	55
74	Sliding Mode Regulator for the Perturbations Attenuation in Two Tank Plants. IEEE Access, 2017, 5, 20504-20511.	2.6	13
75	Classification via an Embedded Approach. Designs, 2017, 1, 7.	1.3	1
76	USNFIS: Uniform stable neuro fuzzy inference system. Neurocomputing, 2017, 262, 57-66.	3.5	52
77	Advances in Neural Networks and Hybrid-Metaheuristics: Theory, Algorithms, and Novel Engineering Applications. Computational Intelligence and Neuroscience, 2016, 2016, 1-1.	1.1	1
78	Comparison Between Two Observers. IEEE Latin America Transactions, 2016, 14, 2077-2084.	1.2	4
79	Disturbance Rejection in Two Mechatronic Systems. IEEE Latin America Transactions, 2016, 14, 485-492.	1.2	13
80	PID Anti-Vibration Control of a Robotic Arm. IEEE Latin America Transactions, 2016, 14, 3144-3150.	1.2	21
81	Hybrid controller with observer for the estimation and rejection of disturbances. ISA Transactions, 2016, 65, 445-455.	3.1	42
82	Structure control for the disturbance rejection in two electromechanical processes. Journal of the Franklin Institute, 2016, 353, 3610-3631.	1.9	30
83	States Estimation in Two Mechanical Systems. IEEE Latin America Transactions, 2016, 14, 3159-3167.	1.2	1
84	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.	1.2	23
85	Least square neural network model of the crude oil blending process. Neural Networks, 2016, 78, 88-96.	3.3	31
86	Experimental control of a fuel cell. IEEE Latin America Transactions, 2015, 13, 2935-2940.	1.2	5
87	Synchronization of Discrete-Time Chaotic Fuzzy Systems by means of Fuzzy Output Regulation Using Genetic Algorithm. Mathematical Problems in Engineering, 2015, 2015, 1-18.	0.6	6
88	Uniform stable observer for the disturbance estimation in two renewable energy systems. ISA Transactions, 2015, 58, 155-164.	3.1	43
89	Variable Structure Model of an Articulated Robotic Arm. IEEE Latin America Transactions, 2015, 13, 3794-3802.	1.2	3
90	State estimation for T-S fuzzy affine systems with variable quantization density. , 2015, , .		7

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91	A fuzzy inference system for the identification. IEEE Latin America Transactions, 2015, 13, 2823-2829.	1.2	7
92	Experimental vision regulation of a quadrotor. IEEE Latin America Transactions, 2015, 13, 2514-2523.	1.2	16
93	Acquisition System and Analytic Fuzzy Model of a Manufactured Wind Turbine. IEEE Latin America Transactions, 2015, 13, 3879-3884.	1.2	3
94	Stabilization of the robotic arms. IEEE Latin America Transactions, 2015, 13, 2567-2573.	1.2	10
95	Control of Uncertain Plants with Unknown Deadzone via Differential Neural Networks. IEEE Latin America Transactions, 2015, 13, 2085-2093.	1.2	14
96	Inducing sustained oscillations in feedback-linearizable single-input nonlinear systems. ISA Transactions, 2015, 54, 117-124.	3.1	13
97	A limit set stabilization by means of the Port Hamiltonian system approach. International Journal of Robust and Nonlinear Control, 2015, 25, 1739-1750.	2.1	5
98	Fuzzy slopes model of nonlinear systems with sparse data. Soft Computing, 2015, 19, 3507-3514.	2.1	9
99	Analytic neural network model of a wind turbine. Soft Computing, 2015, 19, 3455-3463.	2.1	12
100	Adaptive least square control in discrete time of robotic arms. Soft Computing, 2015, 19, 3665-3676.	2.1	36
101	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.	0.8	3
102	Stable and optimal controls of a proton exchange membrane fuel cell. International Journal of Control, 2014, , 1-24.	1.2	8
103	Dual PD Control Regulation with Nonlinear Compensation for a Ball and Plate System. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	12
104	Dynamic Model of a Wind Turbine for the Electric Energy Generation. Mathematical Problems in Engineering, 2014, 2014, 1-8.	0.6	6
105	Passivity analysis and modeling of robotic arms. IEEE Latin America Transactions, 2014, 12, 1389-1397.	1.2	15
106	Wind turbine modeling with an analytic algorithm. , 2014, , .		0
107	Optimal Control of a PEM Fuel Cell for the Inputs Minimization. Mathematical Problems in Engineering, 2014, 2014, 1-7.	0.6	4
108	Stable optimal control applied to a cylindrical robotic arm. Neural Computing and Applications, 2014, 24, 937-944.	3.2	24

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109	Dynamic model with sensor and actuator for an articulated robotic arm. Neural Computing and Applications, 2014, 24, 573-581.	3.2	8
110	Mathematical model with sensor and actuator for a transelevator. Neural Computing and Applications, 2014, 24, 277-285.	3.2	6
111	Wind turbine modeling with the slopes algorithm. , 2014, , .		0
112	Comparison of two quadrotor dynamic models. IEEE Latin America Transactions, 2014, 12, 531-537.	1.2	39
113	An observer with controller to detect and reject disturbances. International Journal of Control, 2014, 87, 524-536.	1.2	15
114	State estimation in MIMO nonlinear systems subject to unknown deadzones using recurrent neural networks. Neural Computing and Applications, 2014, 25, 693-701.	3.2	16
115	Evolving intelligent algorithms for the modelling of brain and eye signals. Applied Soft Computing Journal, 2014, 14, 259-268.	4.1	47
116	Identification and control of class of non€linear systems with non€symmetric deadzone using recurrent neural networks. IET Control Theory and Applications, 2014, 8, 183-192.	1.2	34
117	Evolving intelligent system for the modelling of nonlinear systems with dead-zone input. Applied Soft Computing Journal, 2014, 14, 289-304.	4.1	32
118	Inverse kinematics of a mobile robot. Neural Computing and Applications, 2013, 23, 187-194.	3.2	16
119	A method for online pattern recognition of abnormal eye movements. Neural Computing and Applications, 2013, 22, 597-605.	3.2	21
120	Robust c-prototypes algorithms for color image segmentation. Eurasip Journal on Image and Video Processing, 2013, 2013, .	1.7	10
121	Hierarchical fuzzy CMAC control for nonlinear systems. Neural Computing and Applications, 2013, 23, 323-331.	3.2	15
122	Modeling and Control of Wind Turbine. Mathematical Problems in Engineering, 2013, 2013, 1-13.	0.6	53
123	Proportional Derivative Control with Inverse Dead-Zone for Pendulum Systems. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	17
124	Acquisition system and approximation of brain signals. IET Science, Measurement and Technology, 2013, 7, 232-239.	0.9	16
125	Geometric approach and structure at infinity controls for the disturbance rejection. IET Control Theory and Applications, 2012, 6, 2528-2537.	1.2	12
126	Stabilization of the Ball on the Beam System by Means of the Inverse Lyapunov Approach. Mathematical Problems in Engineering, 2012, 2012, 1-13.	0.6	12

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127	Characterisation framework for epileptic signals. IET Image Processing, 2012, 6, 1227-1235.	1.4	14
128	Modified optimal control with a backpropagation network for robotic arms. IET Control Theory and Applications, 2012, 6, 2216-2225.	1.2	81
129	Tracking Control Based on Recurrent Neural Networks for Nonlinear Systems with Multiple Inputs and Unknown Deadzone. Abstract and Applied Analysis, 2012, 2012, 1-18.	0.3	29
130	Robust Adaptive Neurocontrol of SISO Nonlinear Systems Preceded by Unknown Deadzone. Mathematical Problems in Engineering, 2012, 2012, 1-23.	0.6	19
131	System Identification Using Multilayer Differential Neural Networks: A New Result. Journal of Applied Mathematics, 2012, 2012, 1-20.	0.4	16
132	Trajectory planning and collisions detector for robotic arms. Neural Computing and Applications, 2012, 21, 2105-2114.	3.2	15
133	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.	3.2	4
134	Robust fault diagnosis of disturbed linear systems via a sliding mode high order differentiator. International Journal of Control, 2012, 85, 648-659.	1.2	16
135	Uniformly Stable Backpropagation Algorithm to Train a Feedforward Neural Network. IEEE Transactions on Neural Networks, 2011, 22, 356-366.	4.8	79
136	Quasipolynomials and the structure at infinity of linear systems with delay. International Journal of Systems, Control and Communications, 2011, 3, 302.	0.2	0
137	Comparison of four mathematical models for braking of a motorcycle. IEEE Latin America Transactions, 2011, 9, 630-637.	1.2	8
138	Modeling via on-line clustering and fuzzy support vector machines for nonlinear system. , 2011, , .		1
139	On the Stabilization of the Inverted-Cart Pendulum Using the Saturation Function Approach. Mathematical Problems in Engineering, 2011, 2011, 1-14.	0.6	12
140	Mathematical Model of Low-Pass Filters. Recent Patents on Engineering, 2011, 5, 155-162.	0.3	1
141	An Uniformly Stable Observer for Tire Friction Estimation During Braking Process. Recent Patents on Engineering, 2010, 4, 73-77.	0.3	0
142	Backpropagation to train an evolving radial basis function neural network. Evolving Systems, 2010, 1, 173-180.	2.4	28
143	Modeling of Four Nonlinear Electronic Circuits. Recent Patents on Electrical Engineering, 2010, 3, 35-42.	0.4	0
144	An evolving neuro-fuzzy recurrent network. , 2009, , .		0

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145	Neural network training with optimal bounded ellipsoid algorithm. Neural Computing and Applications, 2009, 18, 623-631.	3.2	5
146	An stable online clustering fuzzy neural network for nonlinear system identification. Neural Computing and Applications, 2009, 18, 633-641.	3.2	17
147	Pattern recognition of eye movements. , 2009, , .		1
148	SOFMLS: Online Self-Organizing Fuzzy Modified Least-Squares Network. IEEE Transactions on Fuzzy Systems, 2009, 17, 1296-1309.	6.5	311
149	Recurrent Neural Networks Training With Stable Bounding Ellipsoid Algorithm. IEEE Transactions on Neural Networks, 2009, 20, 983-991.	4.8	42
150	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
151	A Transelevator Moving Inside of an Automatic Warehouse in Virtual Reality. Advances in Intelligent and Soft Computing, 2009, , 407-414.	0.2	0
152	An Sliding Mode Control for an Elbow Arm. Advances in Intelligent and Soft Computing, 2009, , 503-508.	0.2	0
153	Recurrent neural networks training with optimal bounded ellipsoid algorithm. Proceedings of the American Control Conference, 2007, , .	0.0	2
154	Stability Analysis of Nonlinear System Identification via Delayed Neural Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2007, 54, 161-165.	2.2	89
155	Nonlinear system identification with recurrent neural networks and dead-zone Kalman filter algorithm. Neurocomputing, 2007, 70, 2460-2466.	3.5	91
156	Time-Delay Nonlinear System Modelling via Delayed Neural Networks. , 2006, , .		0
157	A new on-line self-constructing neural fuzzy network. , 2006, , .		7
158	A new discrete-time sliding-mode control with time-varying gain and neural identification. International Journal of Control, 2006, 79, 338-348.	1.2	26
159	Discrete-Time Sliding-Mode Control Based on Neural Networks. Lecture Notes in Computer Science, 2006, , 956-961.	1.0	2
160	Recurrent neural networks training with stable risk-sensitive Kalman filter algorithm. , 0, , .		4
161	Dead-zone Kalman filter algorithm for recurrent neural networks. , 0, , .		8
162	A novel algorithm for the modeling of complex processes. Kybernetika, 0, , 79-95.	0.0	3

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163	MÃnimos cuadrados recursivos para un manipulador que aprende por demostraciÃ³n. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 0, , .	0.6	3