Rodolfo Haber

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The fuzzy Kalman filter: Improving its implementation by reformulating uncertainty representation. Fuzzy Sets and Systems, 2021, 402, 78-104.	1.6	15
2	A decision-making framework for dynamic scheduling of cyber-physical production systems based on digital twins. Annual Reviews in Control, 2021, 51, 357-373.	4.4	101
3	Needs, Requirements and a Concept of a Tool Condition Monitoring System for the Aerospace Industry. Sensors, 2021, 21, 5086.	2.1	7
4	Ensemble of convolutional neural networks based on an evolutionary algorithm applied to an industrial welding process. Computers in Industry, 2021, 133, 103530.	5.7	24
5	Computational Intelligence for Simulating a LiDAR Sensor. , 2020, , 149-178.		1
6	Computer Vision System for Welding Inspection of Liquefied Petroleum Gas Pressure Vessels Based on Combined Digital Image Processing and Deep Learning Techniques. Sensors, 2020, 20, 4505.	2.1	28
7	Towards Sustainability of Manufacturing Processes by Multiobjective Optimization: A Case Study on a Submerged Arc Welding Process. IEEE Access, 2020, 8, 212904-212916.	2.6	13
8	Cloud-Based Industrial Cyber–Physical System for Data-Driven Reasoning: A Review and Use Case on an Industry 4.0 Pilot Line. IEEE Transactions on Industrial Informatics, 2020, 16, 5975-5984.	7.2	60
9	Digital twin-based Optimization on the basis of Grey Wolf Method. A Case Study on Motion Control Systems. , 2020, , .		3
10	Local Decision Making based on Distributed Digital Twin Framework. IFAC-PapersOnLine, 2020, 53, 10568-10573.	0.5	14
11	Digital Twin-Based Optimization for Ultraprecision Motion Systems With Backlash and Friction. IEEE Access, 2019, 7, 93462-93472.	2.6	64
12	Visual Analytics Framework for Condition Monitoring in Cyber-Physical Systems. , 2019, , .		5
13	Optimal Tuning of Cascade Controllers for Feed Drive Systems using Particle Swarm Optimization. , 2019, , .		4
14	Sensor Reliability in Cyber-Physical Systems Using Internet-of-Things Data: A Review and Case Study. Remote Sensing, 2019, 11, 2252.	1.8	46
15	Automatic Selection of Optimal Parameters Based on Simple Soft-Computing Methods: A Case Study of Micromilling Processes. IEEE Transactions on Industrial Informatics, 2019, 15, 800-811.	7.2	45
16	Automated Driving. , 2018, , 275-342.		4
17	Condition-based Monitoring Architecture for CNC Machine Tools based on Global Knowledge. IFAC-PapersOnLine, 2018, 51, 200-204.	0.5	10
18	Towards the Adoption of Cyber-Physical Systems of Systems Paradigm in Smart Manufacturing Environments. , 2018, , .		14

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19	Self-Tuning Method for Increased Obstacle Detection Reliability Based on Internet of Things LiDAR Sensor Models. Sensors, 2018, 18, 1508.	2.1	41
20	Fault pattern identification in multi-stage assembly processes with non-ideal sheet-metal parts based on reinforcement learning architecture. Procedia CIRP, 2018, 67, 601-606.	1.0	14
21	Smart Sensing of Pavement Temperature Based on Low-Cost Sensors and V2I Communications. Sensors, 2018, 18, 2092.	2.1	14
22	Industrial cyber-physical system for condition-based monitoring in manufacturing processes. , 2018, , .		15
23	Characterization of tool-workpiece contact during the micromachining of conductive materials. Mechanical Systems and Signal Processing, 2017, 83, 489-505.	4.4	14
24	A Simple Multi-Objective Optimization Based on the Cross-Entropy Method. IEEE Access, 2017, 5, 22272-22281.	2.6	43
25	Time-To-Failure Modelling in On-Chip LiDAR Sensors for Automotive Applications. Proceedings (mdpi), 2017, 1, .	0.2	1
26	Consensus-Based Cooperative Control Based on Pollution Sensing and Traffic Information for Urban Traffic Networks. Sensors, 2017, 17, 953.	2.1	11
27	Obstacle Recognition Based on Machine Learning for On-Chip LiDAR Sensors in a Cyber-Physical System. Sensors, 2017, 17, 2109.	2.1	41
28	Coping with Complexity When Predicting Surface Roughness in Milling Processes: Hybrid Incremental Model with Optimal Parametrization. Complexity, 2017, 2017, 1-11.	0.9	25
29	Wireless Monitoring of Pavement Temperature Based on Low Cost Computing Platform. Proceedings (mdpi), 2017, 2, .	0.2	1
30	Monitoring tool usage on the basis of sensory information in micro-drilling operations. , 2016, , .		1
31	Multi-objective optimization based on an improved cross-entropy method. A case study of a micro-scale manufacturing process. Information Sciences, 2016, 334-335, 161-173.	4.0	51
32	Surface roughness modeling and optimization of tungsten–copper alloys in micro-milling processes. Measurement: Journal of the International Measurement Confederation, 2016, 86, 246-252.	2.5	45
33	Consensus-Based Cooperative Control Approach Applied to Urban Traffic Networks. Proceedings (mdpi), 2016, 1, .	0.2	0
34	PROTOTIPO DE UN COLECTOR SOLAR DE PLACAS PLANAS. Dyna (Spain), 2016, 91, 18-18.	0.1	0
35	1st International Workshop on Software Engineering for Smart Cyber-Physical Systems (SEsCPS 2015). , 2015, , .		4
36	Advanced Co-simulation Framework for Cooperative Maneuvers Among Vehicles. , 2015, , .		3

 $\label{eq:constraint} Advanced \ Co-simulation \ Framework \ for \ Cooperative \ Maneuvers \ Among \ Vehicles. \ , \ 2015, \ , \ .$ 36

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37	Conductance sensing for monitoring micromechanical machining of conductive materials. Sensors and Actuators A: Physical, 2015, 232, 163-171.	2.0	19
38	Artificial cognitive control with self-x capabilities: A case study of a micro-manufacturing process. Computers in Industry, 2015, 74, 135-150.	5.7	20
39	A DRIVERLESS VEHICLE DEMONSTRATION ON MOTORWAYS AND IN URBAN ENVIRONMENTS. Transport, 2015, 30, 253-263.	0.6	29
40	From artificial cognitive systems and open architectures to cognitive manufacturing systems. , 2015, , .		43
41	Conductance sensor for micromachining. A case study on monitoring tool-workpiece contact. , 2015, ,		0
42	A self-learning strategy for artificial cognitive control systems. , 2015, , .		13
43	HERRAMIENTA DE MONITORIZACIÓN PARA MEJORAR LAS PRESTACIONES DE LOS GRUPOS ELECTRÓGENOS FUELOIL EN CUBA. Dyna (Spain), 2015, 90, 34-39.	0.1	0
44	A fuzzy-genetic system to predict the cutting force in microdrilling processes. , 2014, , .		2
45	Artificial intelligence-based modelling and optimization of microdrilling processes. , 2014, , .		0
46	Application of hybrid incremental modeling for predicting surface roughness in micromachining processes. , 2014, , .		4
47	Intelligent Models for Predicting the Thrust Force and Perpendicular Vibrations in Microdrilling Processes. , 2014, , .		1
48	Connectivity control in WSN based on fuzzy logic control. ACM SIGBED Review, 2014, 11, 54-57.	1.8	2
49	Online detection of run out in microdrilling of tungsten and titanium alloys. International Journal of Advanced Manufacturing Technology, 2014, 74, 1567-1575.	1.5	19
50	Correlation of the holes quality with the force signals in a microdrilling process of a sintered tungsten-copper alloy. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1801-1808.	1.1	19
51	Self-adaptive systems: A survey of current approaches, research challenges and applications. Expert Systems With Applications, 2013, 40, 7267-7279.	4.4	155
52	Sensoring systems and signal analysis to monitor tool wear in microdrilling operations on a sintered tungsten–copper composite material. Sensors and Actuators A: Physical, 2013, 199, 165-175.	2.0	39
53	EXTRACCIÓN DE RASGOS DE LAS SEÑALES PARA LA MONITORIZACIÓN INDIRECTA DE LA HERRAMIENTA EN EL MICROTALADRADO. Dyna (Spain), 2013, 88, 405-413.	0.1	2
54	Hybrid Incremental Modeling Based on Least Squares and Fuzzy \$K\$-NN for Monitoring Tool Wear in Turning Processes. IEEE Transactions on Industrial Informatics, 2012, 8, 811-818.	7.2	49

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55	Tool wear monitoring using neuro-fuzzy techniques: a comparative study in a turning process. Journal of Intelligent Manufacturing, 2012, 23, 869-882.	4.4	76
56	Modified Shared Circuits Model for Manufacturing Processes Control:. Lecture Notes in Computer Science, 2012, , 232-242.	1.0	0
57	Artificial cognitive control system based on the shared circuits model of sociocognitive capacities. A first approach. Engineering Applications of Artificial Intelligence, 2011, 24, 209-219.	4.3	34
58	Optimal fuzzy control system using the cross-entropy method. A case study of a drilling process. Information Sciences, 2010, 180, 2777-2792.	4.0	64
59	Detecting Nano-Scale Vibrations in Rotating Devices by Using Advanced Computational Methods. Sensors, 2010, 10, 4983-4995.	2.1	1
60	A Transductive Neuro-Fuzzy Controller: Application to a Drilling Process. IEEE Transactions on Neural Networks, 2010, 21, 1158-1167.	4.8	37
61	An optimal fuzzy control system in a network environment based on simulated annealing. An application to a drilling process. Applied Soft Computing Journal, 2009, 9, 889-895.	4.1	44
62	Internal Model Control Based on a Neurofuzzy System for Network Applications. A Case Study on the High-Performance Drilling Process. IEEE Transactions on Automation Science and Engineering, 2009, 6, 367-372.	3.4	20
63	Control Neuroborroso en Red. Aplicación al Proceso de Taladrado de Alto Rendimiento. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2009, 6, 31-38.	0.6	6
64	Transductive-Weighted Neuro-Fuzzy Inference System for Tool Wear Prediction in a Turning Process. Lecture Notes in Computer Science, 2009, , 113-120.	1.0	12
65	A Transductive Neuro-Fuzzy Force Control: An Ethernet-Based Application to a Drilling Process. Lecture Notes in Computer Science, 2009, , 573-582.	1.0	Ο
66	Advanced Controls for New Machining Processes. , 2009, , 159-218.		0
67	Arm-Helicopter Control with Positive Signals. , 2008, , .		Ο
68	Neurofuzzy Force-Based Control in an Ethernet-Based Application. A Case Study on a Drilling Process. , 2008, , .		0
69	Optimal Tuning of a Networked Linear Controller Using a Multi-Objective Genetic Algorithm. Application to a Complex Electromechanical Process. , 2008, , .		11
70	Networked Fuzzy Control System for a High-Performance Drilling Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	1.3	6
71	System Identification of the High Performance Drilling Process for Network-Based Control. , 2007, , 827.		19
72	Optimal Fuzzy Control for a Time-Delay System Using Simulated Annealing: An Application to		2

High-Performance Drilling. , 2007, , .

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73	Fuzzy Logic-Based Torque Control System for Milling Process Optimization. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 941-950.	3.3	38
74	The State-of-the-Art in Nano-Turning. , 2007, , .		2
75	A classic solution for the control of a high-performance drilling process. International Journal of Machine Tools and Manufacture, 2007, 47, 2290-2297.	6.2	33
76	Using Simulated Annealing for Optimal Tuning of a PID Controller for Time-Delay Systems. An Application to a High-Performance Drilling Process. Lecture Notes in Computer Science, 2007, , 1155-1162.	1.0	11
77	Networked Control Based on Fuzzy Logic. An Application to a High-Performance Milling Process. Lecture Notes in Computer Science, 2007, , 391-398.	1.0	3
78	Fuzzy Logic Based Drilling Force Control in a Network-Based Application. , 2007, , .		0
79	Networked Fuzzy Control System for a High-Performance Drilling Process. , 2007, , .		1
80	Fuzzy Control of Spindle Torque in High-Speed Milling Processes. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 1014-1018.	1.3	16
81	Fuzzy Control of Spindle Torque in High-Speed Milling Processes. , 2005, , .		0
82	Modeling of Communication Delays Aiming at the Design of Networked Supervisory and Control Systems. A First Approach. Lecture Notes in Computer Science, 2005, , 1056-1059.	1.0	3
83	Networked sensing for high-speed machining processes based on CORBA. Sensors and Actuators A: Physical, 2005, 119, 418-426.	2.0	9
84	Controlling a complex electromechanical process on the basis of a neurofuzzy approach. Future Generation Computer Systems, 2005, 21, 1083-1095.	4.9	5
85	Power-Steering Control Architecture for Automatic Driving. IEEE Transactions on Intelligent Transportation Systems, 2005, 6, 406-415.	4.7	84
86	Nonlinear internal model control using neural networks: an application for machining processes. Neural Computing and Applications, 2004, 13, 47-55.	3.2	37
87	An investigation of tool-wear monitoring in a high-speed machining process. Sensors and Actuators A: Physical, 2004, 116, 539-545.	2.0	106
88	Fuzzy control of a multiple hearth furnace. Computers in Industry, 2004, 54, 105-113.	5.7	36
89	CORBA-Based Open Platform for Processes Monitoring. An Application to a Complex Electromechanical Process. Lecture Notes in Computer Science, 2004, , 523-526.	1.0	5
90	Using circle criteria for verifying asymptotic stability in PI-like fuzzy control systems: application to the milling process. IET Control Theory and Applications, 2003, 150, 619-627.	1.7	31

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91	Embedded fuzzy-control system for machining processes. Computers in Industry, 2003, 50, 353-366.	5.7	35
92	Intelligent process supervision for predicting tool wear in machining processes. Mechatronics, 2003, 13, 825-849.	2.0	42
93	Nonlinear Internal Model Control Using Neural Networks and Fuzzy Logic: Application to an Electromechanical Process. Lecture Notes in Computer Science, 2003, , 351-360.	1.0	1
94	Embedded Fuzzy Control System in an Open Computerized Numerical Control: A Technology Transfer Case-Study. Lecture Notes in Computer Science, 2003, , 442-449.	1.0	0
95	Tool Wear Prediction in Milling Using Neural Networks. Lecture Notes in Computer Science, 2002, , 807-812.	1.0	2
96	Dynamic Model of the Machining Process on the Basis of Neural Networks: from Simulation to Real Time Application. Lecture Notes in Computer Science, 2002, , 574-583.	1.0	5
97	Lyapunov Stable Control of Robot Manipulators: A Fuzzy Self-Tuning Procedure. Intelligent Automation and Soft Computing, 1999, 5, 313-326.	1.6	34
98	Fuzzy model and hierarchical fuzzy control integration: an approach for milling process optimization. Computers in Industry, 1999, 39, 199-207.	5.7	40
99	Toward intelligent machining: hierarchical fuzzy control for the end milling process. IEEE Transactions on Control Systems Technology, 1998, 6, 188-199.	3.2	40
100	Fuzzy supervisory control of end milling process. Information Sciences, 1996, 89, 95-106.	4.0	13
101	A MIMO fuzzy-control system for high-speed machining processes. Results of a case study. , 0, , .		1