Luc Baron

List of Publications by Year
in descending order

39 papers	1,089 citations	516710 16 h-index	526287 27 g-index
41 all docs	41 docs citations	41 times ranked	806 citing authors

#	Article	IF	Citations
1	Design of Stabilizing Controllers With a Dynamic Gain for Feedforward Nonlinear Time-Delay Systems. IEEE Transactions on Automatic Control, 2011, 56, 692-697.	5.7	184
2	Fault detection for discrete-time Markov jump linear systems with partially known transition probabilities. International Journal of Control, 2010, 83, 1564-1572.	1.9	114
3	Feedback stabilization for high order feedforward nonlinear time-delay systems. Automatica, 2011, 47, 962-967.	5.0	105
4	Type-2 fuzzy tool condition monitoring system based on acoustic emission in micromilling. Information Sciences, 2014, 255, 121-134.	6.9	81
5	The jointâ€limits and singularity avoidance in robotic welding. Industrial Robot, 2008, 35, 456-464.	2.1	80
6	The self-adaptation of weights for joint-limits and singularity avoidances of functionally redundant robotic-task. Robotics and Computer-Integrated Manufacturing, 2011, 27, 367-376.	9.9	54
7	Tool wear monitoring using genetically-generated fuzzy knowledge bases. Engineering Applications of Artificial Intelligence, 2002, 15, 303-314.	8.1	47
8	TSK fuzzy modeling for tool wear condition in turning processes: An experimental study. Engineering Applications of Artificial Intelligence, 2011, 24, 260-265.	8.1	42
9	Type-2 Takagi-Sugeno-Kang Fuzzy Logic Modeling using Subtractive Clustering. , 2006, , .		40
10	Fuzzy decision support system knowledge base generation using a genetic algorithm. International Journal of Approximate Reasoning, 2001, 28, 125-148.	3.3	35
11	Multi-criteria fuzzy decision support for conceptual evaluation in design of mechatronic systems: a quadrotor design case study. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2018, 29, 329-349.	2.1	34
12	Experimental and fuzzy modelling analysis on dynamic cutting force in micro milling. Soft Computing, 2013, 17, 1687-1697.	3.6	29
13	Tool wear assessment based on type-2 fuzzy uncertainty estimation on acoustic emission. Applied Soft Computing Journal, 2015, 31, 14-24.	7.2	24
14	Workspace, joint space and singularities of a family of delta-like robot. Mechanism and Machine Theory, 2018, 127, 73-95.	4.5	24
15	Fuzzy identification of cutting acoustic emission with extended subtractive cluster analysis. Nonlinear Dynamics, 2012, 67, 2599-2608.	5.2	23
16	KINEMATIC INVERSION OF FUNCTIONALLY-REDUNDANT SERIAL MANIPULATORS: APPLICATION TO ARC-WELDING. Transactions of the Canadian Society for Mechanical Engineering, 2005, 29, 679-690.	0.8	21
17	High-order interval type-2 Takagi-Sugeno-Kang fuzzy logic system and its application in acoustic emission signal modeling in turning process. International Journal of Advanced Manufacturing Technology, 2012, 63, 1057-1063.	3.0	19
18	Machining of Titanium Metal Matrix Composites: Progress Overview. Materials, 2020, 13, 5011.	2.9	14

#	Article	IF	Citations
19	Real/binary-like coded versus binary coded genetic algorithms to automatically generate fuzzy knowledge bases: a comparative study. Engineering Applications of Artificial Intelligence, 2004, 17, 313-325.	8.1	13
20	Uncertainty prediction for tool wear condition using type-2 tsk fuzzy approach. , 2009, , .		11
21	Fault detection for discrete-time Markov jump linear systems with partially known transition probabilities. , 2008, , .		10
22	High order type-2 TSK fuzzy logic system. , 2008, , .		9
23	Modelling of dynamic micromilling cutting forces using type-2 fuzzy rule-based system. , 2010, , .		9
24	Acoustic emission signal feature analysis using type-2 fuzzy logic System. , 2010, , .		9
25	Application of Type-2 fuzzy estimation on uncertainty in machining: An approach on acoustic emission during turning process. , 2009, , .		8
26	Trends in concurrent, multi-criteria and optimal design of mechatronic systems: A review. , 2014, , .		8
27	Tool Condition Monitoring Using the TSK Fuzzy Approach Based on Subtractive Clustering Method. Lecture Notes in Computer Science, 2008, , 52-61.	1.3	8
28	Type-2 Fuzzy Modeling for Acoustic Emission Signal in Precision Manufacturing. Modelling and Simulation in Engineering, 2011, 2011, 1-12.	0.7	6
29	Influence of design parameters on the singularities and workspace of a 3-RPS parallel robot. Transactions of the Canadian Society for Mechanical Engineering, 2018, 42, 30-37.	0.8	6
30	Fuzzy cutting force modelling in micro-milling. Journal of Intelligent and Fuzzy Systems, 2013, 25, 1027-1035.	1.4	4
31	DESIGN OF A VISION GUIDED MECHATRONIC QUADROTOR SYSTEM USING DESIGN FOR CONTROL METHODOLOGY. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 201-219.	0.8	4
32	Fuzzy-Neuro Optimal Time-Energy Control of a Three Degrees of Freedom Planar Manipulator. , 2006, , .		2
33	Influence of the Migration Process on the Learning Performances of Fuzzy Knowledge Bases. , 2007, , .		2
34	Neural network-based decision support for conceptual design of a mechatronic system using mechatronic multi-criteria profile (MMP). , 2014, , .		2
35	An optimization post-processing module for complex tool-tip milling operations. International Journal of Advanced Manufacturing Technology, 2015, 80, 615-624.	3.0	2
36	A fuzzy-based framework to support multicriteria design of mechatronic systems. Journal of Computational Design and Engineering, 2020, 7, 816-829.	3.1	2

#	Article	IF	Citations
37	Nuero-fuzzy multi-objective trajectory planning of redundant manipulators. , 2007, , .		1
38	A C++ library for the automatic interpretation of geometrical and dimensional tolerances. International Journal of Advanced Manufacturing Technology, 2009, 45, 896-906.	3.0	1
39	Reliable Tool Life Estimation with Multiple Acoustic Emission Signal Feature Selection and Integration Based on Type-2 Fuzzy Logic. Studies in Fuzziness and Soft Computing, 2013, , 203-217.	0.8	1