Piero P Bonissone

List of Publications by Year in descending order

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75 papers	1,743 citations	516561 16 h-index	302012 39 g-index
79 all docs	79 docs citations	79 times ranked	1068 citing authors

#	Article	IF	Citations
1	Introduction to the Special Issue in Memoriam of Lotfi A. Zadeh [Guest Editorial]. IEEE Computational Intelligence Magazine, 2019, 14, 13-14.	3.4	1
2	Obituary for Lotfi A. Zadeh [In Memoriam]. IEEE Computational Intelligence Magazine, 2018, 13, 13-22.	3.4	3
3	Conference Report on 2017 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2017) [Conference Reports]. IEEE Computational Intelligence Magazine, 2018, 13, 11-12.	3.4	0
4	A fuzzy K-nearest neighbor classifier to deal with imperfect data. Soft Computing, 2018, 22, 3313-3330.	2.1	17
5	Gene Priorization for Tumor Classification Using an Embedded Method. Studies in Computational Intelligence, 2016, , 363-380.	0.7	1
6	Machine Learning Applications. , 2015, , 783-821.		3
7	A Directed Inference Approach towards Multi-class Multi-model Fusion. Lecture Notes in Computer Science, 2013, , 352-363.	1.0	0
8	iPresage: An innovative patent landscaping tool. , 2012, , .		2
9	Extending information processing in a Fuzzy Random Forest ensemble. Soft Computing, 2012, 16, 845-861.	2.1	26
10	OFP_CLASS: a hybrid method to generate optimized fuzzy partitions for classification. Soft Computing, 2012, 16, 667-682.	2.1	11
11	Lazy Meta-Learning: Creating Customized Model Ensembles on Demand. Lecture Notes in Computer Science, 2012, , 1-23.	1.0	12
12	Soft Computing as a Tool, Six Years Later. Studies in Fuzziness and Soft Computing, 2012, , 27-47.	0.6	0
13	Towards the learning from low quality data in a Fuzzy Random Forest ensemble. , 2011, , .		1
14	Fast meta-models for local fusion of multiple predictive models. Applied Soft Computing Journal, 2011, 11, 1529-1539.	4.1	46
15	Welcome message from the conference chairs. , 2010, , .		0
16	A classification and regression technique to handle heterogeneous and imperfect information. Soft Computing, 2010, 14, 1165-1185.	2.1	13
17	A fuzzy random forest. International Journal of Approximate Reasoning, 2010, 51, 729-747.	1.9	135
18	Soft Computing: A Continuously Evolving Concept. International Journal of Computational Intelligence Systems, 2010, 3, 237-248.	1.6	5

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19	Fundamentals for Design and Construction of a Fuzzy Random Forest. Studies in Fuzziness and Soft Computing, 2010, , 23-42.	0.6	9
20	Soft Computing: A Continuously Evolving Concept. International Journal of Computational Intelligence Systems, 2010, 3, 237.	1.6	3
21	Multicriteria decision making (mcdm): a framework for research and applications. IEEE Computational Intelligence Magazine, 2009, 4, 48-61.	3.4	67
22	Robust model selection decision-making using a fuzzy supervisory Approach. , 2009, , .		1
23	An Instance-Based Method for Remaining Useful Life Estimation for Aircraft Engines. Journal of Failure Analysis and Prevention, 2008, 8, 199-206.	0.5	37
24	On heuristics as a fundamental constituent of soft computing. Fuzzy Sets and Systems, 2008, 159, 846-855.	1.6	78
25	Multivariate anomaly detection in real-world industrial systems. , 2008, , .		4
26	Subsea Condition Monitoring: A Path to Increased Availability and Increased Recovery. , 2008, , .		2
27	SOFT COMPUTING APPLICATIONS IN PHM. , 2008, , .		2
28	Multi-Criteria Decision-Making: The Intersection of Search, Preference Tradeoff, and Interaction Visualization Processes. , 2007, , .		3
29	Automated Risk Classification and Outlier Detection. , 2007, , .		1
30	Estimating Deterioration Level of Aircraft Engines. , 2007, , 661.		4
31	A Review of Two Industrial Deployments of Multi-criteria Decision-making Systems at General Electric. , 2007, , .		8
32	Soft Computing Applications to Prognostics and Health Management (PHM): Leveraging Field Data and Domain Knowledge. , 2007, , 928-939.		11
33	Anomaly Detection Using Non-Parametric Information. , 2007, , .		3
34	Domain Knowledge and Decision Time: A Framework for Soft Computing Applications. , 2006, , .		6
35	Evolutionary algorithms + domain knowledge = real-world evolutionary computation. IEEE Transactions on Evolutionary Computation, 2006, 10, 256-280.	7.5	120
36	Management of Complex Dynamic Systems based on Model-Predictive Multi-objective Optimization. , 2006, , .		14

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37	Automating the quality assurance of an onâ€“line knowledgeâ€“based classifier by fusing multiple offâ€“line classifiers. , 2006, , 147-157.		2
38	Design of local fuzzy models using evolutionary algorithms. Computational Statistics and Data Analysis, 2006, 51, 398-416.	0.7	16
39	Six Sigma Applied Throughout the Lifecycle of an Automated Decision System. Quality and Reliability Engineering International, 2005, 21, 275-292.	1.4	27
40	Using an Ensemble of Classifiers to Audit a Production Classifier. Lecture Notes in Computer Science, 2005, , 376-386.	1.0	5
41	Classifier Fusion Using Triangular Norms. Lecture Notes in Computer Science, 2004, , 154-163.	1.0	15
42	Development and Maintenance of Fuzzy Models in Financial Applications. , 2004, , 50-66.		3
43	SOFT-CBR: A Self-Optimizing Fuzzy Tool for Case-Based Reasoning. , 2003, , 5-19.		12
44	When will it break? A hybrid soft computing model to predict time-to-break margins in paper machines. , 2002, , .		12
45	Hybrid Soft Computing for Classification and Prediction Applications. Lecture Notes in Computer Science, 2002, , 352-353.	1.0	3
46	Soft Computing for diagnostics in equipment service. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2001, 15, 267-279.	0.7	4
47	<title>Soft computing applications at General Electric</title>. , 2001, , .		1
48	Conceptual Modeling for Design Formulation. Engineering With Computers, 2001, 17, 95-111.	3.5	5
49	<title>Soft computing applications: the advent of hybrid systems</title>. , 1998, , .		2
50	Fuzzy Computation in Practice. , 1998, , .		0
51	Defuzzification. , 1998, , .		0
52	Soft computing: the convergence of emerging reasoning technologies. Soft Computing, 1997, 1, 6-18.	2.1	195
53	Approximate Reasoning Systems: Handling Uncertainty and Imprecision in Information Systems. , 1997, , 369-395.		6
54	<title>Fuzzy controllers and fuzzy expert systems: industrial applications of fuzzy technology</title>. , 1995, 2493, 114.		1

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55	Discussion: Fuzzy Logic Control Technology: A Personal Perspective. Technometrics, 1995, 37, 262-266.	1.3	2
56	A message from the new editor. International Journal of Approximate Reasoning, 1993, 8, iv.	1.9	0
57	Integrating case- and rule-based reasoning. International Journal of Approximate Reasoning, 1993, 8, 163-203.	1.9	39
58	<title>Fuzzy logic control: a knowledge-based system perspective</title>. , 1993, 2061, 8.		1
59	Fuzzy Logic Controllers: a Knowledge Based System View. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1992, 25, 321-326.	0.4	1
60	Efficient methods for computing linguistic consistency. Fuzzy Sets and Systems, 1991, 39, 15-26.	1.6	16
61	Time-constrained reasoning under uncertainty. Real-Time Systems, 1990, 2, 25-45.	1.1	28
62	MARS: A mergers and acquisitions reasoning system. Computer Science in Economics and Management, 1990, 3, 239-268.	0.5	9
63	Linguistic summarization of fuzzy data. Information Sciences, 1990, 52, 141-152.	4.0	16
64	Uncertainty and Incompleteness: Breaking the Symmetry of Defeasible Reasoning * *This work was partially supported by the Defense Advanced Research Projects Agency (DARPA) under USAF/Rome Air Development Center contract F30602-85-C-0033. Views and conclusions contained in this paper are those of the authors and should not be interpreted as representing the official opinion or policy of DARPA or the U.S. Government. Machine Intelligence and Pattern Recognition, 1990, , 67-85.	0.2	4
65	Now that I have a good theory of uncertainty, what else do I need?. Machine Intelligence and Pattern Recognition, 1990, , 129-141. *This work was partially supported by the Defense Advanced Research Projects Agency (DARPA) under USAF/Rome Air Development Center contract F30602-85-C-0033. Views and conclusions contained in this paper are those of the authors and should not be interpreted as representing the official opinion or policy of DARPA or the U.S. Government. Machine Intelligence and Pattern Recognition, 1990, , 227-253.	0.2	4
66	An Industrial First Generation Kbs (Expert System): Delta/Cats. Lecture Notes in Engineering, 1989, , 80-89.	0.1	0
67	RUM (Reasoning with Uncertainty Module) and RUMrunner (RUMâ€™s Run Time System). Lecture Notes in Engineering, 1989, , 131-150.	0.1	0
68	Evidence and Belief in Expert Systems (Dempster-Shafer: A Simplified View). Lecture Notes in Engineering, 1989, , 113-130.	0.1	0
69	Uncertainty in Kbs (Expert Systems). Lecture Notes in Engineering, 1989, , 93-112.	0.1	0
70	Summarizing and propagating uncertain information with triangular norms. International Journal of Approximate Reasoning, 1987, 1, 71-101.	1.9	110
71	Selecting Uncertainty Calculi and Granularity: An Experiment in Trading-Off Precision and Complexity* *This work was partially supported by the Defense Advanced Research Projects Agency (DARPA) contract F30602-85-C0033. Views and conclusions contained in this paper are those of the authors and should not be interpreted as representing the official opinion or policy of DARPA or the U.S. Government.. Machine Intelligence and Pattern Recognition, 1986, , 217-247.	0.2	216
72	Editorial: Reasoning with uncertainty in expert systems. International Journal of Man-Machine Studies, 1985, 22, 241-250.	0.7	93

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73	Coping with Uncertainty in Expert Systems: A Comparative Study. , 1983, , .		1
74	Failure diagnosis and decision making in industrial processes: A fuzzy set application. , 1981, , .		1
75	A Linguistic Approach to Decisionmaking with Fuzzy Sets. IEEE Transactions on Systems, Man, and Cybernetics, 1980, 10, 716-723.	0.9	231