

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	A Linguistic Approach to Decisionmaking with Fuzzy Sets. IEEE Transactions on Systems, Man, and Cybernetics, 1980, 10, 716-723.	0.9	231
2	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
3	Soft computing: the convergence of emerging reasoning technologies. Soft Computing, 1997, 1, 6-18.	2.1	195
4	A fuzzy random forest. International Journal of Approximate Reasoning, 2010, 51, 729-747.	1.9	135
5	Evolutionary algorithms + domain knowledge = real-world evolutionary computation. IEEE Transactions on Evolutionary Computation, 2006, 10, 256-280.	7.5	120
6	Summarizing and propagating uncertain information with triangular norms. International Journal of Approximate Reasoning, 1987, 1, 71-101.	1.9	110
7	Editorial: Reasoning with uncertainty in expert systems. International Journal of Man-Machine Studies, 1985, 22, 241-250.	0.7	93
8	On heuristics as a fundamental constituent of soft computing. Fuzzy Sets and Systems, 2008, 159, 846-855.	1.6	78
9	Multicriteria decision making (mcdm): a framework for research and applications. IEEE Computational Intelligence Magazine, 2009, 4, 48-61.	3.4	67
10	Fast meta-models for local fusion of multiple predictive models. Applied Soft Computing Journal, 2011, 11, 1529-1539.	4.1	46
11	Integrating case- and rule-based reasoning. International Journal of Approximate Reasoning, 1993, 8, 163-203.	1.9	39
12	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
13	Time-constrained reasoning under uncertainty. Real-Time Systems, 1990, 2, 25-45.	1.1	28
14	Six Sigma Applied Throughout the Lifecycle of an Automated Decision System. Quality and Reliability Engineering International, 2005, 21, 275-292.	1.4	27
15	Extending information processing in a Fuzzy Random Forest ensemble. Soft Computing, 2012, 16, 845-861.	2.1	26
16	A fuzzy K-nearest neighbor classifier to deal with imperfect data. Soft Computing, 2018, 22, 3313-3330.	2.1	17
17	Linguistic summarization of fuzzy data. Information Sciences, 1990, 52, 141-152.	4.0	16
18	Efficient methods for computing linguistic consistency. Fuzzy Sets and Systems, 1991, 39, 15-26.	1.6	16

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19	Design of local fuzzy models using evolutionary algorithms. Computational Statistics and Data Analysis, 2006, 51, 398-416.	0.7	16
20	Classifier Fusion Using Triangular Norms. Lecture Notes in Computer Science, 2004, , 154-163.	1.0	15
21	Management of Complex Dynamic Systems based on Model-Predictive Multi-objective Optimization. , 2006, , .		14
22	A classification and regression technique to handle heterogeneous and imperfect information. Soft Computing, 2010, 14, 1165-1185.	2.1	13
23	When will it break? A hybrid soft computing model to predict time-to-break margins in paper machines. , 2002, , .		12
24	SOFT-CBR: A Self-Optimizing Fuzzy Tool for Case-Based Reasoning. , 2003, , 5-19.		12
25	Lazy Meta-Learning: Creating Customized Model Ensembles on Demand. Lecture Notes in Computer Science, 2012, , 1-23.	1.0	12
26	OFP_CLASS: a hybrid method to generate optimized fuzzy partitions for classification. Soft Computing, 2012, 16, 667-682.	2.1	11
27	Soft Computing Applications to Prognostics and Health Management (PHM): Leveraging Field Data and Domain Knowledge. , 2007, , 928-939.		11
28	MARS: A mergers and acquisitions reasoning system. Computer Science in Economics and Management, 1990, 3, 239-268.	0.5	9
29	Fundamentals for Design and Construction of a Fuzzy Random Forest. Studies in Fuzziness and Soft Computing, 2010, , 23-42.	0.6	9
30	A Review of Two Industrial Deployments of Multi-criteria Decision-making Systems at General Electric. , 2007, , .		8
31	Domain Knowledge and Decision Time: A Framework for Soft Computing Applications. , 2006, , .		6
32	Approximate Reasoning Systems: Handling Uncertainty and Imprecision in Information Systems. , 1997, , 369-395.		6
33	Conceptual Modeling for Design Formulation. Engineering With Computers, 2001, 17, 95-111.	3.5	5
34	Using an Ensemble of Classifiers to Audit a Production Classifier. Lecture Notes in Computer Science, 2005, , 376-386.	1.0	5
35	Soft Computing: A Continuously Evolving Concept. International Journal of Computational Intelligence Systems, 2010, 3, 237-248.	1.6	5
36	Soft Computing for diagnostics in equipment service. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2001, 15, 267-279.	0.7	4

#	ARTICLE	IF	CITATIONS
37	Estimating Deterioration Level of Aircraft Engines. , 2007, , 661.		4
38	Multivariate anomaly detection in real-world industrial systems. , 2008, , .		4
39	Uncertainty and Incompleteness: Breaking the Symmetry of Derasible 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, , 237-253.	0.2	4
40	Now that I Have a Good Theory of Uncertainty, What Else Do I Need? * * * 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, , 237-253.	0.2	4
41	Multi-Criteria Decision-Making: The Intersection of Search, Preference Tradeoff, and Interaction Visualization Processes. , 2007, , .		3
42	Machine Learning Applications. , 2015, , 783-821.		3
43	Obituary for Lotfi A. Zadeh [In Memoriam]. IEEE Computational Intelligence Magazine, 2018, 13, 13-22.	3.4	3
44	Anomaly Detection Using Non-Parametric Information. , 2007, , .		3
45	Soft Computing: A Continuously Evolving Concept. International Journal of Computational Intelligence Systems, 2010, 3, 237.	1.6	3
46	Hybrid Soft Computing for Classification and Prediction Applications. Lecture Notes in Computer Science, 2002, , 352-353.	1.0	3
47	Development and Maintenance of Fuzzy Models in Financial Applications. , 2004, , 50-66.		3
48	Discussion: Fuzzy Logic Control Technology: A Personal Perspective. Technometrics, 1995, 37, 262-266.	1.3	2
49	<title>Soft computing applications: the advent of hybrid systems</title>. , 1998, , .		2
50	Automating the quality assurance of an onâ€‘line knowledgeâ€‘based classifier by fusing multiple offâ€‘line classifiers. , 2006, , 147-157.		2
51	Subsea Condition Monitoring: A Path to Increased Availability and Increased Recovery. , 2008, , .		2
52	iPresage: An innovative patent landscaping tool. , 2012, , .		2
53	SOFT COMPUTING APPLICATIONS IN PHM. , 2008, , .		2
54	Failure diagnosis and decision making in industrial processes: A fuzzy set application. , 1981, , .		1

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55	Fuzzy Logic Controllers: a Knowledge Based System View. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1992, 25, 321-326.	0.4	1
56	<title>Fuzzy logic control: a knowledge-based system perspective</title>. , 1993, 2061, 8.		1
57	<title>Fuzzy controllers and fuzzy expert systems: industrial applications of fuzzy technology</title>. , 1995, 2493, 114.		1
58	<title>Soft computing applications at General Electric</title>. , 2001, , .		1
59	Automated Risk Classification and Outlier Detection. , 2007, , .		1
60	Robust model selection decision-making using a fuzzy supervisory Approach. , 2009, , .		1
61	Towards the learning from low quality data in a Fuzzy Random Forest ensemble. , 2011, , .		1
62	Gene Priorization for Tumor Classification Using an Embedded Method. Studies in Computational Intelligence, 2016, , 363-380.	0.7	1
63	Introduction to the Special Issue in Memoriam of Lotfi A. Zadeh [Guest Editorial]. IEEE Computational Intelligence Magazine, 2019, 14, 13-14.	3.4	1
64	Coping with Uncertainty in Expert Systems: A Comparative Study. , 1983, , .		1
65	A message from the new editor. International Journal of Approximate Reasoning, 1993, 8, iv.	1.9	0
66	Welcome message from the conference chairs. , 2010, , .		0
67	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
68	Soft Computing as a Tool, Six Years Later. Studies in Fuzziness and Soft Computing, 2012, , 27-47.	0.6	0
69	A Directed Inference Approach towards Multi-class Multi-model Fusion. Lecture Notes in Computer Science, 2013, , 352-363.	1.0	0
70	An Industrial First Generation Kbs (Expert System): Delta/Cats. Lecture Notes in Engineering, 1989, , 80-89.	0.1	0
71	RUM (Reasoning with Uncertainty Module) and RUMrunner (RUMâ€™s Run Time System). Lecture Notes in Engineering, 1989, , 131-150.	0.1	0
72	Evidence and Belief in Expert Systems (Dempster-Shafer: A Simplified View). Lecture Notes in Engineering, 1989, , 113-130.	0.1	0

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73	Uncertainty in Kbs (Expert Systems). Lecture Notes in Engineering, 1989, , 93-112.	0.1	0
74	Fuzzy Computation in Practice. , 1998, , .		0
75	Defuzzification. , 1998, , .		0