

Marco Zaffalon

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,707
citations

331670

21
h-index

361022

35
g-index

99
all docs

99
docs citations

99
times ranked

980
citing authors

#	ARTICLE	IF	CITATIONS
1	The naive credal classifier. <i>Journal of Statistical Planning and Inference</i> , 2002, 105, 5-21.	0.6	90
2	2U: an exact interval propagation algorithm for polytrees with binary variables. <i>Artificial Intelligence</i> , 1998, 106, 77-107.	5.8	82
3	An optimization methodology for intermodal terminal management. <i>Journal of Intelligent Manufacturing</i> , 2001, 12, 521-534.	7.3	82
4	Reliable diagnoses of dementia by the naive credal classifier inferred from incomplete cognitive data. <i>Artificial Intelligence in Medicine</i> , 2003, 29, 61-79.	6.5	60
5	Updating beliefs with incomplete observations. <i>Artificial Intelligence</i> , 2004, 159, 75-125.	5.8	58
6	Bayesian Networks with Imprecise Probabilities: Theory and Application to Classification. <i>Intelligent Systems Reference Library</i> , 2012, , 49-93.	1.2	50
7	Exact credal treatment of missing data. <i>Journal of Statistical Planning and Inference</i> , 2002, 105, 105-122.	0.6	49
8	Evaluating credal classifiers by utility-discounted predictive accuracy. <i>International Journal of Approximate Reasoning</i> , 2012, 53, 1282-1301.	3.3	49
9	Zero-Dimensional Spin Accumulation and Spin Dynamics in a Mesoscopic Metal Island. <i>Physical Review Letters</i> , 2003, 91, 186601.	7.8	47
10	Distribution of mutual information from complete and incomplete data. <i>Computational Statistics and Data Analysis</i> , 2005, 48, 633-657.	1.2	46
11	"Counting on the Group"., 2016, , .		41
12	Independent natural extension. <i>Artificial Intelligence</i> , 2011, 175, 1911-1950.	5.8	36
13	Epistemic irrelevance in credal nets: The case of imprecise Markov trees. <i>International Journal of Approximate Reasoning</i> , 2010, 51, 1029-1052.	3.3	35
14	Constraint Logic Programming and Integer Programming approaches and their collaboration in solving an assignment scheduling problem. <i>Constraints</i> , 1997, 1, 245-264.	0.7	34
15	Inference and risk measurement with the pari-mutuel model. <i>International Journal of Approximate Reasoning</i> , 2010, 51, 1145-1158.	3.3	32
16	Conservative Inference Rule for Uncertain Reasoning under Incompleteness. <i>Journal of Artificial Intelligence Research</i> , 0, 34, 757-821.	7.0	30
17	Decision-theoretic specification of credal networks: A unified language for uncertain modeling with sets of Bayesian networks. <i>International Journal of Approximate Reasoning</i> , 2008, 49, 345-361.	3.3	28
18	Statistical comparison of classifiers through Bayesian hierarchical modelling. <i>Machine Learning</i> , 2017, 106, 1817-1837.	5.4	27

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19	Robust Filtering Through Coherent Lower Previsions. IEEE Transactions on Automatic Control, 2011, 56, 1567-1581.	5.7	26
20	Credible classification for environmental problems. Environmental Modelling and Software, 2005, 20, 1003-1012.	4.5	25
21	Conglomerable natural extension. International Journal of Approximate Reasoning, 2012, 53, 1200-1227.	3.3	25
22	Probability and time. Artificial Intelligence, 2013, 198, 1-51.	5.8	25
23	Notes on desirability and conditional lower previsions. Annals of Mathematics and Artificial Intelligence, 2010, 60, 251-309.	1.3	21
24	Entropy-based pruning for learning Bayesian networks using BIC. Artificial Intelligence, 2018, 260, 42-50.	5.8	21
25	Approximate structure learning for large Bayesian networks. Machine Learning, 2018, 107, 1209-1227.	5.4	20
26	Tree-Based Credal Networks for Classification. Reliable Computing, 2003, 9, 487-509.	0.8	19
27	Generalized loopy 2U: A new algorithm for approximate inference in credal networks. International Journal of Approximate Reasoning, 2010, 51, 474-484.	3.3	19
28	Efficient learning of bounded-treewidth Bayesian networks from complete and incomplete data sets. International Journal of Approximate Reasoning, 2018, 95, 152-166.	3.3	19
29	Approximate credal network updating by linear programming with applications to decision making. International Journal of Approximate Reasoning, 2015, 58, 25-38.	3.3	18
30	Credal networks for military identification problems. International Journal of Approximate Reasoning, 2009, 50, 666-679.	3.3	17
31	Coherence graphs. Artificial Intelligence, 2009, 173, 104-144.	5.8	16
32	Learning extended tree augmented naive structures. International Journal of Approximate Reasoning, 2016, 68, 153-163.	3.3	16
33	Recursive estimation for sparse Gaussian process regression. Automatica, 2020, 120, 109127.	5.0	16
34	Axiomatising Incomplete Preferences through Sets of Desirable Gambles. Journal of Artificial Intelligence Research, 0, 60, 1057-1126.	7.0	16
35	Notes on "Notes on conditional previsions" International Journal of Approximate Reasoning, 2007, 44, 358-365.	3.3	15
36	Limits of learning about a categorical latent variable under prior near-ignorance. International Journal of Approximate Reasoning, 2009, 50, 597-611.	3.3	15

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37	Conditional models: Coherence and inference through sequences of joint mass functions. <i>Journal of Statistical Planning and Inference</i> , 2010, 140, 1805-1833.	0.6	15
38	Bayesian network data imputation with application to survival tree analysis. <i>Computational Statistics and Data Analysis</i> , 2016, 93, 373-387.	1.2	15
39	Imprecise Dirichlet Process With Application to the Hypothesis Test on the Probability That $X < Y$. <i>Journal of Statistical Theory and Practice</i> , 2015, 9, 658-684.	0.5	14
40	Updating credal networks is approximable in polynomial time. <i>International Journal of Approximate Reasoning</i> , 2012, 53, 1183-1199.	3.3	13
41	Hierarchical estimation of parameters in Bayesian networks. <i>Computational Statistics and Data Analysis</i> , 2019, 137, 67-91.	1.2	12
42	Solving Limited Memory Influence Diagrams. <i>Journal of Artificial Intelligence Research</i> , 0, 44, 97-140.	7.0	12
43	Quantum mechanics: The Bayesian theory generalized to the space of Hermitian matrices. <i>Physical Review A</i> , 2016, 94, .	2.5	11
44	Credal Model Averaging: An Extension of Bayesian Model Averaging to Imprecise Probabilities. <i>Lecture Notes in Computer Science</i> , 2008, , 257-271.	1.3	11
45	A model of prior ignorance for inferences in the one-parameter exponential family. <i>Journal of Statistical Planning and Inference</i> , 2012, 142, 1960-1979.	0.6	10
46	Time Series Forecasting with Gaussian Processes Needs Priors. <i>Lecture Notes in Computer Science</i> , 2021, , 103-117.	1.3	10
47	On the complexity of solving polytree-shaped limited memory influence diagrams with binary variables. <i>Artificial Intelligence</i> , 2013, 205, 30-38.	5.8	9
48	Conglomerable coherence. <i>International Journal of Approximate Reasoning</i> , 2013, 54, 1322-1350.	3.3	9
49	Density-ratio robustness in dynamic state estimation. <i>Mechanical Systems and Signal Processing</i> , 2013, 37, 54-75.	8.0	9
50	EDM Drilling optimisation using stochastic techniques. <i>Procedia CIRP</i> , 2018, 67, 350-355.	1.9	9
51	Extended Tree Augmented Naive Classifier. <i>Lecture Notes in Computer Science</i> , 2014, , 176-189.	1.3	9
52	Lazy naive credal classifier. , 2009, , .		9
53	A note about redundancy in influence diagrams. <i>International Journal of Approximate Reasoning</i> , 1998, 19, 351-365.	3.3	8
54	Fast algorithms for robust classification with Bayesian nets. <i>International Journal of Approximate Reasoning</i> , 2007, 44, 200-223.	3.3	8

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55	Impact on place of death in cancer patients: a causal exploration in southern Switzerland. BMC Palliative Care, 2020, 19, 160.	1.8	8
56	Prior near ignorance for inferences in the k -parameter exponential family. Statistics, 2015, 49, 1104-1140.	0.6	7
57	Desirability foundations of robust rational decision making. Synthese, 2018, , 1.	1.1	7
58	Discovering Subgroups of Patients from DNA Copy Number Data Using NMF on Compacted Matrices. PLoS ONE, 2013, 8, e79720.	2.5	7
59	Compatibility, desirability, and the running intersection property. Artificial Intelligence, 2020, 283, 103274.	5.8	6
60	Probabilistic Reconciliation of Hierarchical Forecast via Bayesian Rule. Lecture Notes in Computer Science, 2021, , 211-226.	1.3	6
61	Equivalence Between Bayesian and Credal Nets on an Updating Problem. , 2006, , 223-230.		6
62	Assessing Debris Flow Hazard by Credal Nets. , 2004, , 125-132.		6
63	Reproducing human decisions in reservoir management: the case of lake Lugano. Environmental Science and Engineering, 2009, , 252-263.	0.2	6
64	Independent products in infinite spaces. Journal of Mathematical Analysis and Applications, 2015, 425, 460-488.	1.0	5
65	On the problem of computing the conglomerable natural extension. International Journal of Approximate Reasoning, 2015, 56, 1-27.	3.3	5
66	A Gleason-Type Theorem for Any Dimension Based on a Gambling Formulation of Quantum Mechanics. Foundations of Physics, 2017, 47, 991-1002.	1.3	5
67	Hierarchical Multinomial-Dirichlet Model for the Estimation of Conditional Probability Tables. , 2017, , .		5
68	Sum-of-squares for bounded rationality. International Journal of Approximate Reasoning, 2019, 105, 130-152.	3.3	5
69	Approximating Credal Network Inferences by Linear Programming. Lecture Notes in Computer Science, 2013, , 13-24.	1.3	5
70	Robust inference of trees. Annals of Mathematics and Artificial Intelligence, 2005, 45, 215-239.	1.3	4
71	Reliable survival analysis based on the Dirichlet process. Biometrical Journal, 2015, 57, 1002-1019.	1.0	4
72	Probabilistic graphical models. International Journal of Intelligent Systems, 2003, 18, 149-151.	5.7	3

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73	JNCC2: An extension of naive Bayes classifier suited for small and incomplete data sets. Environmental Modelling and Software, 2008, 23, 960-961.	4.5	3
74	Conformity and independence with coherent lower previsions. International Journal of Approximate Reasoning, 2016, 78, 125-137.	3.3	3
75	Sampling Subgraphs with Guaranteed Treewidth for Accurate and Efficient Graphical Inference. , 2020, , .		3
76	Comments on "Imprecise probability models for learning multinomial distributions from data. Applications to learning credal networks" by Andr�s R. Masegosa and Seraf�n Moral. International Journal of Approximate Reasoning, 2014, 55, 1597-1600.	3.3	2
77	Full conglomerability. Journal of Statistical Theory and Practice, 2017, 11, 634-669.	0.5	2
78	What Interplay of Factors Influences the Place of Death in Cancer Patients? An Innovative Probabilistic Approach Sheds Light on a Well-known Question. Journal of Pain and Symptom Management, 2018, 56, e25.	1.2	2
79	Joint desirability foundations of social choice and opinion pooling. Annals of Mathematics and Artificial Intelligence, 2021, 89, 965.	1.3	2
80	The Weirdness Theorem and the Origin of Quantum Paradoxes. Foundations of Physics, 2021, 51, 1.	1.3	2
81	Bayesian Hypothesis Testing in Machine Learning. Lecture Notes in Computer Science, 2015, , 199-202.	1.3	2
82	Information algebras in the theory of imprecise probabilities. International Journal of Approximate Reasoning, 2022, 142, 383-416.	3.3	2
83	Credal Classification for Dementia Screening. Lecture Notes in Computer Science, 2001, , 67-76.	1.3	1
84	Factorisation Properties of the Strong Product. Advances in Intelligent and Soft Computing, 2010, , 139-147.	0.2	1
85	Min-BDeu and Max-BDeu Scores for Learning Bayesian Networks. Lecture Notes in Computer Science, 2014, , 426-441.	1.3	1
86	Editorial: Imprecise probability perspectives on artificial intelligence. Annals of Mathematics and Artificial Intelligence, 2005, 45, 1-4.	1.3	0
87	Full Conglomerability, Continuity and Marginal Extension. Advances in Intelligent Systems and Computing, 2017, , 355-362.	0.6	0
88	Compatibility, Coherence and the RIP. Advances in Intelligent Systems and Computing, 2019, , 166-174.	0.6	0