

Alessio Benavoli

List of Publications by Year in descending order

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52
papers

656
citations

623734

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55
all docs

55
docs citations

55
times ranked

534
citing authors

#	ARTICLE	IF	CITATIONS
1	Time Series Forecasting with Gaussian Processes Needs Priors. Lecture Notes in Computer Science, 2021, , 103-117.	1.3	10
2	Sparse Information Filter for Fast Gaussian Process Regression. Lecture Notes in Computer Science, 2021, , 527-542.	1.3	1
3	Preferential Bayesian optimisation with skew gaussian processes. , 2021, , .		3
4	A unified framework for closed-form nonparametric regression, classification, preference and mixed problems with Skew Gaussian Processes. Machine Learning, 2021, 110, 3095-3133.	5.4	3
5	The Weirdness Theorem and the Origin of Quantum Paradoxes. Foundations of Physics, 2021, 51, 1.	1.3	2
6	State Space Approximation of Gaussian Processes for Time Series Forecasting. Lecture Notes in Computer Science, 2021, , 21-35.	1.3	1
7	A tutorial on uncertainty modeling for machine reasoning. Information Fusion, 2020, 55, 30-44.	19.1	21
8	Recursive estimation for sparse Gaussian process regression. Automatica, 2020, 120, 109127.	5.0	16
9	Skew Gaussian processes for classification. Machine Learning, 2020, 109, 1877-1902.	5.4	5
10	Rao-Blackwellized sampling for batch and recursive Bayesian inference of Piecewise Affine models. Automatica, 2020, 117, 109002.	5.0	12
11	Joint Waveform and Guidance Control Optimization for Target Rendezvous. IEEE Transactions on Signal Processing, 2019, 67, 4357-4369.	5.3	7
12	Sum-of-squares for bounded rationality. International Journal of Approximate Reasoning, 2019, 105, 130-152.	3.3	5
13	Semialgebraic Outer Approximations for Set-Valued Nonlinear Filtering. , 2019, , .		1
14	EDM Drilling optimisation using stochastic techniques. Procedia CIRP, 2018, 67, 350-355.	1.9	9
15	A Unified Framework for Deterministic and Probabilistic D -Stability Analysis of Uncertain Polynomial Matrices. IEEE Transactions on Automatic Control, 2017, 62, 5437-5444.	5.7	2
16	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
17	Statistical comparison of classifiers through Bayesian hierarchical modelling. Machine Learning, 2017, 106, 1817-1837.	5.4	27
18	Joint Analysis of Multiple Algorithms and Performance Measures. New Generation Computing, 2017, 35, 69-86.	3.3	5

#	ARTICLE	IF	CITATIONS
19	Coordination of optimal guidance law and adaptive radiated waveform for interception and rendezvous problems. IET Radar, Sonar and Navigation, 2017, 11, 1132-1139.	1.8	6
20	Bayesian Dependence Tests for Continuous, Binary and Mixed Continuous-Binary Variables. Entropy, 2016, 18, 326.	2.2	1
21	A probabilistic interpretation of set-membership filtering: Application to polynomial systems through polytopic bounding. Automatica, 2016, 70, 158-172.	5.0	27
22	Quantum mechanics: The Bayesian theory generalized to the space of Hermitian matrices. Physical Review A, 2016, 94, .	2.5	11
23	Reliable survival analysis based on the Dirichlet process. Biometrical Journal, 2015, 57, 1002-1019.	1.0	4
24	Prior near ignorance for inferences in the k -parameter exponential family. Statistics, 2015, 49, 1104-1140.	0.6	7
25	Imprecise Dirichlet Process With Application to the Hypothesis Test on the Probability That $X < Y$. Journal of Statistical Theory and Practice, 2015, 9, 658-684.	0.5	14
26	A Bayesian approach for comparing cross-validated algorithms on multiple data sets. Machine Learning, 2015, 100, 285-304.	5.4	35
27	New prior near-ignorance models on the simplex. International Journal of Approximate Reasoning, 2015, 56, 278-306.	3.3	3
28	Bayesian Hypothesis Testing in Machine Learning. Lecture Notes in Computer Science, 2015, , 199-202.	1.3	2
29	Statistical Tests for Joint Analysis of Performance Measures. Lecture Notes in Computer Science, 2015, , 76-92.	1.3	3
30	Belief function and multivalued mapping robustness in statistical estimation. International Journal of Approximate Reasoning, 2014, 55, 311-329.	3.3	3
31	The Generalized Moment-Based Filter. IEEE Transactions on Automatic Control, 2013, 58, 2642-2647.	5.7	5
32	Density-ratio robustness in dynamic state estimation. Mechanical Systems and Signal Processing, 2013, 37, 54-75.	8.0	9
33	Data-driven strategies for selective data transmission in sensor networks. , 2012, , .		6
34	Data-driven communication for state estimation with sensor networks. Automatica, 2012, 48, 926-935.	5.0	70
35	A model of prior ignorance for inferences in the one-parameter exponential family. Journal of Statistical Planning and Inference, 2012, 142, 1960-1979.	0.6	10
36	State estimation with remote sensors and intermittent transmissions. Systems and Control Letters, 2012, 61, 155-164.	2.3	30

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37	Belief Function Robustness in Estimation. Advances in Intelligent and Soft Computing, 2012, , 375-383.	0.2	0
38	Performance Measures and MHT for Tracking Move-Stop-Move Targets with MTI Sensors. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 996-1025.	4.7	19
39	Optimal Flow Models for Multiscan Data Association. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2405-2422.	4.7	9
40	Robust Filtering Through Coherent Lower Previsions. IEEE Transactions on Automatic Control, 2011, 56, 1567-1581.	5.7	26
41	An aggregation framework based on coherent lower previsions: Application to Zadeh's paradox and sensor networks. International Journal of Approximate Reasoning, 2010, 51, 1014-1028.	3.3	10
42	Fibonacci sequence, golden section, Kalman filter and optimal control. Signal Processing, 2009, 89, 1483-1488.	3.7	26
43	An Application of Evidential Networks to Threat Assessment. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 620-639.	4.7	48
44	State Estimation in a Sensor Network under Bandwidth Constraints. Understanding Complex Systems, 2009, , 207-221.	0.6	3
45	Inference from Multinomial Data Based on a MLE-Dominance Criterion. Lecture Notes in Computer Science, 2009, , 22-33.	1.3	3
46	State estimation with a remote sensor under limited communication rate. , 2008, , .		5
47	An approach to threat assessment based on evidential networks. , 2007, , .		17
48	Improved estimation for object localization via sensor networks. , 2007, , .		1
49	Tracking of a Ballistic Missile with A-Priori Information. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 1000-1016.	4.7	40
50	Estimation of Constrained Parameters With Guaranteed MSE Improvement. IEEE Transactions on Signal Processing, 2007, 55, 1264-1274.	5.3	14
51	Knowledge-based system for multi-target tracking in a littoral environment. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 1100-1119.	4.7	37
52	Hard-constrained versus soft-constrained parameter estimation. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 1224-1239.	4.7	14