Alessio Benavoli

List of Publications by Year
in descending order

52 papers	656 citations

623734

14 h-index	

642732

23 g-index	

55 all docs	55 docs citations
55 times ranked	534 citing authors

#	Article	IF	Citations
1	Data-driven communication for state estimation with sensor networks. Automatica, 2012, 48, 926-935.	5.0	70
2	An Application of Evidential Networks to Threat Assessment. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 620-639.	4.7	48
3	Tracking of a Ballistic Missile with A-Priori Information. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 1000-1016.	4.7	40
4	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
5	A Bayesian approach for comparing cross-validated algorithms on multiple data sets. Machine Learning, 2015, 100, 285-304.	5.4	35
6	State estimation with remote sensors and intermittent transmissions. Systems and Control Letters, 2012, 61, 155-164.	2.3	30
7	A probabilistic interpretation of set-membership filtering: Application to polynomial systems through polytopic bounding. Automatica, 2016, 70, 158-172.	5.0	27
8	Statistical comparison of classifiers through Bayesian hierarchical modelling. Machine Learning, 2017, 106, 1817-1837.	5.4	27
9	Fibonacci sequence, golden section, Kalman filter and optimal control. Signal Processing, 2009, 89, 1483-1488.	3.7	26
10	Robust Filtering Through Coherent Lower Previsions. IEEE Transactions on Automatic Control, 2011, 56, 1567-1581.	5.7	26
11	A tutorial on uncertainty modeling for machine reasoning. Information Fusion, 2020, 55, 30-44.	19.1	21
12	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
13	An approach to threat assessment based on evidential networks. , 2007, , .		17
14	Recursive estimation for sparse Gaussian process regression. Automatica, 2020, 120, 109127.	5.0	16
15	Hard-constrained versus soft-constrained parameter estimation. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 1224-1239.	4.7	14
16	Estimation of Constrained Parameters With Guaranteed MSE Improvement. IEEE Transactions on Signal Processing, 2007, 55, 1264-1274.	5.3	14
17	Imprecise Dirichlet Process With Application to the Hypothesis Test on the Probability That $X \le Y$. Journal of Statistical Theory and Practice, 2015, 9, 658-684.	0.5	14
18	Rao-Blackwellized sampling for batch and recursive Bayesian inference of Piecewise Affine models. Automatica, 2020, 117, 109002.	5.0	12

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19	Quantum mechanics: The Bayesian theory generalized to the space of Hermitian matrices. Physical Review A, 2016, 94, .	2.5	11
20	An aggregation framework based on coherent lower previsions: Application to Zadehâ€™s paradox and sensor networks. International Journal of Approximate Reasoning, 2010, 51, 1014-1028.	3.3	10
21	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
22	Time Series Forecasting with Gaussian Processes Needs Priors. Lecture Notes in Computer Science, 2021, , 103-117.	1.3	10
23	Optimal Flow Models for Multiscan Data Association. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2405-2422.	4.7	9
24	Density-ratio robustness in dynamic state estimation. Mechanical Systems and Signal Processing, 2013, 37, 54-75.	8.0	9
25	EDM Drilling optimisation using stochastic techniques. Procedia CIRP, 2018, 67, 350-355.	1.9	9
26	Prior near ignorance for inferences in thek-parameter exponential family. Statistics, 2015, 49, 1104-1140.	0.6	7
27	Joint Waveform and Guidance Control Optimization for Target Rendezvous. IEEE Transactions on Signal Processing, 2019, 67, 4357-4369.	5.3	7
28	Data-driven strategies for selective data transmission in sensor networks. , 2012, , .		6
29	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
30	State estimation with a remote sensor under limited communication rate. , 2008, , .		5
31	The Generalized Moment-Based Filter. IEEE Transactions on Automatic Control, 2013, 58, 2642-2647.	5.7	5
32	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
33	Joint Analysis of Multiple Algorithms and Performance Measures. New Generation Computing, 2017, 35, 69-86.	3.3	5
34	Sum-of-squares for bounded rationality. International Journal of Approximate Reasoning, 2019, 105, 130-152.	3.3	5
35	Skew Gaussian processes for classification. Machine Learning, 2020, 109, 1877-1902.	5.4	5
36	Reliable survival analysis based on the Dirichlet process. Biometrical Journal, 2015, 57, 1002-1019.	1.0	4

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37	Belief function and multivalued mapping robustness in statistical estimation. International Journal of Approximate Reasoning, 2014, 55, 311-329.	3.3	3
38	New prior near-ignorance models on the simplex. International Journal of Approximate Reasoning, 2015, 56, 278-306.	3.3	3
39	Preferential Bayesian optimisation with skew gaussian processes. , 2021, , .		3
40	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
41	Statistical Tests for Joint Analysis of Performance Measures. Lecture Notes in Computer Science, 2015, , 76-92.	1.3	3
42	State Estimation in a Sensor Network under Bandwidth Constraints. Understanding Complex Systems, 2009, , 207-221.	0.6	3
43	Inference from Multinomial Data Based on a MLE-Dominance Criterion. Lecture Notes in Computer Science, 2009, , 22-33.	1.3	3
44	A Unified Framework for Deterministic and Probabilistic $\mathscr{D}$-Stability Analysis of Uncertain Polynomial Matrices. IEEE Transactions on Automatic Control, 2017, 62, 5437-5444.	5.7	2
45	The Weirdness Theorem and the Origin of Quantum Paradoxes. Foundations of Physics, 2021, 51, 1.	1.3	2
46	Bayesian Hypothesis Testing in Machine Learning. Lecture Notes in Computer Science, 2015, , 199-202.	1.3	2
47	Improved estimation for object localization via sensor networks. , 2007, , .		1
48	Bayesian Dependence Tests for Continuous, Binary and Mixed Continuous-Binary Variables. Entropy, 2016, 18, 326.	2.2	1
49	Sparse Information Filter for Fast Gaussian Process Regression. Lecture Notes in Computer Science, 2021, , 527-542.	1.3	1
50	Semialgebraic Outer Approximations for Set-Valued Nonlinear Filtering. , 2019, , .		1
51	State Space Approximation of Gaussian Processes for Time Series Forecasting. Lecture Notes in Computer Science, 2021, , 21-35.	1.3	1
52	Belief Function Robustness in Estimation. Advances in Intelligent and Soft Computing, 2012, , 375-383.	0.2	0