Gianluigi Pillonetto

List of Publications by Year
in descending order

52	2,317	567281	501196
papers	citations	15	28
		h-index	g-index

53	53	53	1334
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kernel methods in system identification, machine learning and function estimation: A survey. Automatica, 2014, 50, 657-682.	5.0	714
2	A new kernel-based approach for linear system identification. Automatica, 2010, 46, 81-93.	5.0	409
3	Prediction error identification of linear systems: A nonparametric Gaussian regression approach. Automatica, 2011, 47, 291-305.	5.0	244
4	Sensing, Compression, and Recovery for WSNs: Sparse Signal Modeling and Monitoring Framework. IEEE Transactions on Wireless Communications, 2012, 11, 3447-3461.	9.2	156
5	Newton-Raphson Consensus for Distributed Convex Optimization. IEEE Transactions on Automatic Control, 2016, 61, 994-1009.	5.7	129
6	System Identification Via Sparse Multiple Kernel-Based Regularization Using Sequential Convex Optimization Techniques. IEEE Transactions on Automatic Control, 2014, 59, 2933-2945.	5.7	127
7	Bayesian Online Multitask Learning of Gaussian Processes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 193-205.	13.9	75
8	Tuning complexity in regularized kernel-based regression and linear system identification: The robustness of the marginal likelihood estimator. Automatica, 2015, 58, 106-117.	5.0	69
9	Regularized spectrum estimation using stable spline kernels. Automatica, 2013, 49, 3199-3209.	5.0	63
10	Distributed Cardinality Estimation in Anonymous Networks. IEEE Transactions on Automatic Control, 2014, 59, 645-659.	5.7	42
11	Maximum entropy properties of discrete-time first-order stable spline kernel. Automatica, 2016, 66, 34-38.	5.0	38
12	Estimating parameters and stochastic functions of one variable using nonlinear measurement models. Inverse Problems, 2004, 20, 627-646.	2.0	36
13	A New Dynamic Index of Insulin Sensitivity. IEEE Transactions on Biomedical Engineering, 2006, 53, 369-379.	4.2	23
14	Distributed parametric and nonparametric regression with on-line performance bounds computation. Automatica, 2012, 48, 2468-2481.	5.0	18
15	The Connection Between Bayesian Estimation of a Gaussian Random Field and RKHS. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1518-1524.	11.3	15
16	Distributed Multi-Agent Gaussian Regression via Finite-Dimensional Approximations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2098-2111.	13.9	13
17	On the mathematical foundations of stable RKHSs. Automatica, 2020, 118, 109038.	5.0	13
18	Subspace identification using predictor estimation via Gaussian regression. , 2008, , .		11

#	ARTICLE	IF	CITATIONS
19	Kernel-based methods for Volterra series identification. Automatica, 2021, 129, 109686.	5.0	11
20	Sparse multiple kernels for impulse response estimation with majorization minimization algorithms. , 2012, , .		8
21	Linear Model Identification for Personalized Prediction and Control in Diabetes. IEEE Transactions on Biomedical Engineering, 2022, 69, 558-568.	4.2	8
22	A novel nonparametric approach for the identification of the glucose-insulin system in Type 1 diabetic patients. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8340-8346.	0.4	7
23	COVID-19 epidemic control using short-term lockdowns for collective gain. Annual Reviews in Control, 2021, 52, 573-586.	7.9	7
24	Predictor estimation via Gaussian regression. , 2008, , .		6
25	Rank-1 kernels for regularized system identification. , 2013, , .		6
26	Distributed consensus-based Bayesian estimation: sufficient conditions for performance characterization. , 2010, , .		5
27	Convex vs nonconvex approaches for sparse estimation: Lasso, Multiple Kernel Learning and Hyperparameter Lasso. , 2011, , .		5
28	Nonsmooth regression and state estimation using piecewise quadratic log-concave densities. , 2012, , .		5
29	Bayesian identification of LPV Box-Jenkins models. , 2015, , .		5
30	Identification of hybrid systems using stable spline kernels. , 2015, , .		5
31	Multirobot localization with unknown variance parameters using iterated Kalman filtering. , 2007, , .		4
32	Consensus based estimation of anonymous networks size using Bernoulli trials. , 2012, , .		4
33	Online Estimation of Covariance Parameters using Extended Kalman Filtering and Application to Robot Localization. Advanced Robotics, 2012, 26, 2169-2188.	1.8	4
34	Sample Complexity and Minimax Properties of Exponentially Stable Regularized Estimators. IEEE Transactions on Automatic Control, 2022, 67, 2330-2342.	5.7	4
35	Model-Free Radio Map Estimation in Massive MIMO Systems via Semi-Parametric Gaussian Regression. IEEE Wireless Communications Letters, 2022, 11, 473-477.	5.0	4
36	Closed-form expressions and nonparametric estimation of COVID-19 infection rate. Automatica, 2022, 140, 110265.	5.0	4

#	Article	IF	Citations
37	Online estimation of variance parameters: Experimental results with applications to localization. , 2008, , .		3
38	Outlier robust kernel-based system identification using â„“<inf>1</inf>-Laplace techniques. , 2015, , .		3
39	Distributed function and time delay estimation using nonparametric techniques. , 2009, , .		2
40	The convergence rate of Newton-Raphson consensus optimization for quadratic cost functions. , 2012, , .		2
41	Estimation of arterial arrival time and cerebral blood flow from QUASAR arterial spin labeling using stable spline. Magnetic Resonance in Medicine, 2015, 74, 1758-1767.	3.0	2
42	An index of parameter reproducibility accounting for estimation uncertainty: theory and case study on Î²-cell responsivity and insulin sensitivity. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E971-E977.	3.5	2
43	Boosting as a kernel-based method. Machine Learning, 2019, 108, 1951-1974.	5.4	2
44	Proprioceptive Robot Collision Detection through Gaussian Process Regression. , 2019, , .		2
45	Anomaly detection in homogenous populations: A sparse multiple kernel-based regularization method. , 2014, , .		1
46	A New Model Selection Approach to Hybrid Kernel-Based Estimation. , 2018, , .		1
47	Predictive power of indices derived from models of biological dynamic systems. , 2008, , .		0
48	Regularized spectrum estimation in spaces induced by stable spline kernels. , 2012, , .		0
49	Bayesian learning of probability density functions: A Markov chain Monte Carlo approach. , 2012, , .		0
50	A stable spline convex approach to hybrid systems identification. , 2016, , .		0
51	Statistical bounds for Gaussian regression algorithms based on Karhunen-LoÃ¨ve expansions. , 2017, , .		0
52	Glucose Production by Deconvolution in Intravenous and Oral Glucose Tolerance Tests: Role of Output Variable. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0