

Gianluigi Pillonetto

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,317
citations

567281

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h-index

501196

28
g-index

53
all docs

53
docs citations

53
times ranked

1334
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Linear Model Identification for Personalized Prediction and Control in Diabetes. IEEE Transactions on Biomedical Engineering, 2022, 69, 558-568. | 4.2 | 8 |
| 2 | Sample Complexity and Minimax Properties of Exponentially Stable Regularized Estimators. IEEE Transactions on Automatic Control, 2022, 67, 2330-2342. | 5.7 | 4 |
| 3 | 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 |
| 4 | Closed-form expressions and nonparametric estimation of COVID-19 infection rate. Automatica, 2022, 140, 110265. | 5.0 | 4 |
| 5 | Kernel-based methods for Volterra series identification. Automatica, 2021, 129, 109686. | 5.0 | 11 |
| 6 | COVID-19 epidemic control using short-term lockdowns for collective gain. Annual Reviews in Control, 2021, 52, 573-586. | 7.9 | 7 |
| 7 | On the mathematical foundations of stable RKHSs. Automatica, 2020, 118, 109038. | 5.0 | 13 |
| 8 | Distributed Multi-Agent Gaussian Regression via Finite-Dimensional Approximations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2098-2111. | 13.9 | 13 |
| 9 | Boosting as a kernel-based method. Machine Learning, 2019, 108, 1951-1974. | 5.4 | 2 |
| 10 | Proprioceptive Robot Collision Detection through Gaussian Process Regression. , 2019, , . | | 2 |
| 11 | A New Model Selection Approach to Hybrid Kernel-Based Estimation. , 2018, , . | | 1 |
| 12 | Statistical bounds for Gaussian regression algorithms based on Karhunen-Loève expansions. , 2017, , . | | 0 |
| 13 | Maximum entropy properties of discrete-time first-order stable spline kernel. Automatica, 2016, 66, 34-38. | 5.0 | 38 |
| 14 | A stable spline convex approach to hybrid systems identification. , 2016, , . | | 0 |
| 15 | Newton-Raphson Consensus for Distributed Convex Optimization. IEEE Transactions on Automatic Control, 2016, 61, 994-1009. | 5.7 | 129 |
| 16 | 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 |
| 17 | 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 |
| 18 | Outlier robust kernel-based system identification using $\hat{\sigma}^{-1}$ -Laplace techniques. , 2015, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Bayesian identification of LPV Box-Jenkins models. , 2015, , . | | 5 |
| 20 | Identification of hybrid systems using stable spline kernels. , 2015, , . | | 5 |
| 21 | An index of parameter reproducibility accounting for estimation uncertainty: theory and case study on β -cell responsivity and insulin sensitivity. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E971-E977. | 3.5 | 2 |
| 22 | 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 |
| 23 | Anomaly detection in homogenous populations: A sparse multiple kernel-based regularization method. , 2014, , . | | 1 |
| 24 | Kernel methods in system identification, machine learning and function estimation: A survey. Automatica, 2014, 50, 657-682. | 5.0 | 714 |
| 25 | Distributed Cardinality Estimation in Anonymous Networks. IEEE Transactions on Automatic Control, 2014, 59, 645-659. | 5.7 | 42 |
| 26 | 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 |
| 27 | Regularized spectrum estimation using stable spline kernels. Automatica, 2013, 49, 3199-3209. | 5.0 | 63 |
| 28 | Rank-1 kernels for regularized system identification. , 2013, , . | | 6 |
| 29 | Regularized spectrum estimation in spaces induced by stable spline kernels. , 2012, , . | | 0 |
| 30 | Distributed parametric and nonparametric regression with on-line performance bounds computation. Automatica, 2012, 48, 2468-2481. | 5.0 | 18 |
| 31 | Bayesian learning of probability density functions: A Markov chain Monte Carlo approach. , 2012, , . | | 0 |
| 32 | The convergence rate of Newton-Raphson consensus optimization for quadratic cost functions. , 2012, , . | | 2 |
| 33 | Consensus based estimation of anonymous networks size using Bernoulli trials. , 2012, , . | | 4 |
| 34 | Nonsmooth regression and state estimation using piecewise quadratic log-concave densities. , 2012, , . | | 5 |
| 35 | Sparse multiple kernels for impulse response estimation with majorization minimization algorithms. , 2012, , . | | 8 |
| 36 | Online Estimation of Covariance Parameters using Extended Kalman Filtering and Application to Robot Localization. Advanced Robotics, 2012, 26, 2169-2188. | 1.8 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Sensing, Compression, and Recovery for WSNs: Sparse Signal Modeling and Monitoring Framework. IEEE Transactions on Wireless Communications, 2012, 11, 3447-3461. | 9.2 | 156 |
| 38 | 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 |
| 39 | Prediction error identification of linear systems: A nonparametric Gaussian regression approach. Automatica, 2011, 47, 291-305. | 5.0 | 244 |
| 40 | Convex vs nonconvex approaches for sparse estimation: Lasso, Multiple Kernel Learning and Hyperparameter Lasso. , 2011, , . | | 5 |
| 41 | A new kernel-based approach for linear system identification. Automatica, 2010, 46, 81-93. | 5.0 | 409 |
| 42 | Distributed consensus-based Bayesian estimation: sufficient conditions for performance characterization. , 2010, , . | | 5 |
| 43 | Bayesian Online Multitask Learning of Gaussian Processes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 193-205. | 13.9 | 75 |
| 44 | Distributed function and time delay estimation using nonparametric techniques. , 2009, , . | | 2 |
| 45 | Online estimation of variance parameters: Experimental results with applications to localization. , 2008, , . | | 3 |
| 46 | Predictive power of indices derived from models of biological dynamic systems. , 2008, , . | | 0 |
| 47 | Predictor estimation via Gaussian regression. , 2008, , . | | 6 |
| 48 | Subspace identification using predictor estimation via Gaussian regression. , 2008, , . | | 11 |
| 49 | Multirobot localization with unknown variance parameters using iterated Kalman filtering. , 2007, , . | | 4 |
| 50 | A New Dynamic Index of Insulin Sensitivity. IEEE Transactions on Biomedical Engineering, 2006, 53, 369-379. | 4.2 | 23 |
| 51 | 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 |
| 52 | Estimating parameters and stochastic functions of one variable using nonlinear measurement models. Inverse Problems, 2004, 20, 627-646. | 2.0 | 36 |