

Tiangang Cui

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4713173/publications.pdf>

Version: 2024-02-01

26
papers

605
citations

840776

11
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

592
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Deep Composition of Tensor-Trains Using Squared Inverse Rosenblatt Transports. Foundations of Computational Mathematics, 2022, 22, 1863-1922. | 2.5 | 10 |
| 2 | Certified dimension reduction in nonlinear Bayesian inverse problems. Mathematics of Computation, 2022, 91, 1789-1835. | 2.1 | 15 |
| 3 | Optimization-Based Markov Chain Monte Carlo Methods for Nonlinear Hierarchical Statistical Inverse Problems. SIAM-ASA Journal on Uncertainty Quantification, 2021, 9, 29-64. | 2.0 | 4 |
| 4 | Data-free likelihood-informed dimension reduction of Bayesian inverse problems. Inverse Problems, 2021, 37, 045009. | 2.0 | 7 |
| 5 | Identification of community structure-based brain states and transitions using functional MRI. NeuroImage, 2021, 244, 118635. | 4.2 | 4 |
| 6 | Randomized reduced forward models for efficient Metropolis-Hastings MCMC, with application to subsurface fluid flow and capacitance tomography. GEM - International Journal on Geomathematics, 2020, 11, 1. | 1.6 | 1 |
| 7 | Semivariogram methods for modeling Whittle-Matern priors in Bayesian inverse problems. Inverse Problems, 2020, 36, 055006. | 2.0 | 3 |
| 8 | Scalable Optimization-Based Sampling on Function Space. SIAM Journal of Scientific Computing, 2020, 42, A1317-A1347. | 2.8 | 9 |
| 9 | A non-linear reverse-engineering method for inferring genetic regulatory networks. PeerJ, 2020, 8, e9065. | 2.0 | 4 |
| 10 | Extraction of high-resolution structural orientations from digital data: A Bayesian approach. Journal of Structural Geology, 2019, 122, 106-115. | 2.3 | 19 |
| 11 | A posteriori stochastic correction of reduced models in delayed-acceptance MCMC, with application to multiphase subsurface inverse problems. International Journal for Numerical Methods in Engineering, 2019, 118, 578-605. | 2.8 | 14 |
| 12 | Optimization Methods for Inverse Problems. MATRIX Book Series, 2019, , 121-140. | 0.2 | 11 |
| 13 | USING PARALLEL MARKOV CHAIN MONTE CARLO TO QUANTIFY UNCERTAINTIES IN GEOTHERMAL RESERVOIR CALIBRATION. , 2019, 9, 295-310. | | 3 |
| 14 | Mathematical Modelling of Genetic Network for Regulating the Fate Determination of Hematopoietic Stem Cells. , 2018, , . | | 0 |
| 15 | Rapid near-atomic resolution single-particle 3D reconstruction with SIMPLE. Journal of Structural Biology, 2018, 204, 172-181. | 2.8 | 11 |
| 16 | Goal-Oriented Optimal Approximations of Bayesian Linear Inverse Problems. SIAM Journal of Scientific Computing, 2017, 39, S167-S196. | 2.8 | 14 |
| 17 | Bayesian Inverse Problems with L_1 Priors: A Randomize-Then-Optimize Approach. SIAM Journal of Scientific Computing, 2017, 39, S140-S166. | 2.8 | 17 |
| 18 | Scalable posterior approximations for large-scale Bayesian inverse problems via likelihood-informed parameter and state reduction. Journal of Computational Physics, 2016, 315, 363-387. | 3.8 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | On dimension reduction in Gaussian filters. <i>Inverse Problems</i> , 2016, 32, 045003. | 2.0 | 15 |
| 20 | Multifidelity importance sampling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 300, 490-509. | 6.6 | 91 |
| 21 | Pragmatic Approach to Calibrating Distributed Parameter Groundwater Models from Pumping Test Data Using Adaptive Delayed Acceptance MCMC. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, 06015011. | 1.9 | 1 |
| 22 | Dimension-independent likelihood-informed MCMC. <i>Journal of Computational Physics</i> , 2016, 304, 109-137. | 3.8 | 112 |
| 23 | Optimal Low-rank Approximations of Bayesian Linear Inverse Problems. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A2451-A2487. | 2.8 | 70 |
| 24 | Data-driven model reduction for the Bayesian solution of inverse problems. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 102, 966-990. | 2.8 | 122 |
| 25 | Characterization of Parameters for a Spatially Heterogenous Aquifer from Pumping Test Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 1203-1213. | 1.9 | 6 |
| 26 | Uncertainty Quantification for Stream Depletion Tests. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 1581-1590. | 1.9 | 4 |