Unbiased Rare Event Sampling in Spatial Stochastic Sys Weighted Ensemble of Trajectories

PLoS Computational Biology 12, e1004611 DOI: 10.1371/journal.pcbi.1004611

Citation Report

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Efficient Atomistic Simulation of Pathways and Calculation of Rate Constants for a Protein–Peptide Binding Process: Application to the MDM2 Protein and an Intrinsically Disordered p53 Peptide. Journal of Physical Chemistry Letters, 2016, 7, 3440-3445. | 2.1 | 94 |
| 2 | Weighted Ensemble Simulation: Review of Methodology, Applications, and Software. Annual Review of Biophysics, 2017, 46, 43-57. | 4.5 | 214 |
| 3 | Path-sampling strategies for simulating rare events in biomolecular systems. Current Opinion in Structural Biology, 2017, 43, 88-94. | 2.6 | 80 |
| 4 | ML-Space: Hybrid Spatial Gillespie and Particle Simulation of Multi-Level Rule-Based Models in Cell Biology. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 1339-1349. | 1.9 | 13 |
| 5 | Multifidelity Analysis for Predicting Rare Events in Stochastic Computational Models of Complex Biological Systems. Biomedical Engineering and Computational Biology, 2018, 9, 117959721879025. | 0.8 | 0 |
| 6 | Sampling rare events in stochastic reaction-diffusion systems within trajectory looping. Physical Review E, 2018, 98, 022401. | 0.8 | 1 |
| 7 | Rare-event sampling of epigenetic landscapes and phenotype transitions. PLoS Computational Biology, 2018, 14, e1006336. | 1.5 | 26 |
| 8 | MCell-R: A Particle-Resolution Network-Free Spatial Modeling Framework. Methods in Molecular Biology, 2019, 1945, 203-229. | 0.4 | 17 |
| 9 | Computational Estimation of Microsecond to Second Atomistic Folding Times. Journal of the American Chemical Society, 2019, 141, 6519-6526. | 6.6 | 45 |
| 10 | Potential based, spatial simulation of dynamically nested particles. BMC Bioinformatics, 2019, 20, 607. | 1.2 | 3 |
| 11 | Accelerated Estimation of Long-Timescale Kinetics from Weighted Ensemble Simulation via Non-Markovian "Microbin―Analysis. Journal of Chemical Theory and Computation, 2020, 16, 6763-6775. | 2.3 | 28 |
| 12 | Position-Dependent Diffusion Constant of Molecules in Heterogeneous Systems as Evaluated by the Local Mean Squared Displacement. Journal of Chemical Theory and Computation, 2020, 16, 7239-7254. | 2.3 | 19 |
| 13 | Efficient and exact sampling of transition path ensembles on Markovian networks. Journal of Chemical Physics, 2020, 153, 024121. | 1.2 | 14 |
| 14 | Automatic error control during forward flux sampling of rare events in master equation models. Journal of Chemical Physics, 2020, 152, 035102. | 1.2 | 4 |
| 15 | A first-passage approach to diffusion-influenced reversible binding and its insights into nanoscale signaling at the presynapse. Scientific Reports, 2021, 11, 5377. | 1.6 | 15 |
| 18 | Quantifying the roles of space and stochasticity in computer simulations for cell biology and cellular biochemistry. Molecular Biology of the Cell, 2021, 32, 186-210. | 0.9 | 18 |
| 19 | Wepy: A Flexible Software Framework for Simulating Rare Events with Weighted Ensemble Resampling. ACS Omega, 2020, 5, 31608-31623. | 1.6 | 21 |
| 21 | A Suite of Tutorials for the WESTPA Rare-Events Sampling Software [Article v1.0]. Living Journal of Computational Molecular Science, 2019, 1, . | 2.2 | 16 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 24 | Accurate Particle-Based Reaction Algorithms for Fixed Timestep Simulators. MATRIX Book Series, 2020, , 149-164. | 0.2 | 0 |
| 25 | A gentle introduction to the non-equilibrium physics of trajectories: Theory, algorithms, and biomolecular applications. American Journal of Physics, 2021, 89, 1048-1061. | 0.3 | 7 |
| 27 | WESTPA 2.0: High-Performance Upgrades for Weighted Ensemble Simulations and Analysis of Longer-Timescale Applications. Journal of Chemical Theory and Computation, 2022, 18, 638-649. | 2.3 | 23 |
| 28 | Simulation of receptor triggering by kinetic segregation shows role of oligomers and close contacts. Biophysical Journal, 2022, 121, 1660-1674. | 0.2 | 1 |
| 30 | Identifying a Feasible Transition Pathway between Two Conformational States for a Protein. Journal of Chemical Theory and Computation, 2022, 18, 4529-4543. | 2.3 | 4 |
| 31 | Sampling rare trajectories using stochastic bridges. Physical Review E, 2022, 105, . | 0.8 | 2 |
| 32 | Coupling rare event algorithms with data-based learned committor functions using the analogue Markov chain. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 083201. | 0.9 | 6 |
| 34 | Weighted ensemble: Recent mathematical developments. Journal of Chemical Physics, 2023, 158, . | 1.2 | 5 |
| 35 | A Suite of Advanced Tutorials for the WESTPA 2.0 Rare-Events Sampling Software [Article v2.0]. Living Journal of Computational Molecular Science, 2022, 5, . | 2.2 | 1 |

CITATION REPORT