

Dario Pescini

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

942
citations

471371

17
h-index

526166

27
g-index

69
all docs

69
docs citations

69
times ranked

794
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | ExTaxsl: an exploration tool of biodiversity molecular data. <i>GigaScience</i> , 2022, 11, . | 3.3 | 2 |
| 2 | INTEGRATE: Model-based multi-omics data integration to characterize multi-level metabolic regulation. <i>PLoS Computational Biology</i> , 2022, 18, e1009337. | 1.5 | 24 |
| 3 | Accelerated global sensitivity analysis of genome-wide constraint-based metabolic models. <i>BMC Bioinformatics</i> , 2021, 22, 78. | 1.2 | 5 |
| 4 | GPRuler: Metabolic gene-protein-reaction rules automatic reconstruction. <i>PLoS Computational Biology</i> , 2021, 17, e1009550. | 1.5 | 11 |
| 5 | MaREA4Galaxy: Metabolic reaction enrichment analysis and visualization of RNA-seq data within Galaxy. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 993-999. | 1.9 | 7 |
| 6 | Single-cell Digital Twins for Cancer Preclinical Investigation. <i>Methods in Molecular Biology</i> , 2020, 2088, 331-343. | 0.4 | 17 |
| 7 | Global Sensitivity Analysis of Constraint-Based Metabolic Models. <i>Lecture Notes in Computer Science</i> , 2020, , 179-186. | 1.0 | 2 |
| 8 | Integration of Single-Cell RNA-Sequencing Data into Flux Balance Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2020, , 207-215. | 1.0 | 1 |
| 9 | Synchronization Effects in a Metabolism-Driven Model of Multi-cellular System. <i>Communications in Computer and Information Science</i> , 2019, , 115-126. | 0.4 | 1 |
| 10 | Integration of single-cell RNA-seq data into population models to characterize cancer metabolism. <i>PLoS Computational Biology</i> , 2019, 15, e1006733. | 1.5 | 70 |
| 11 | The Influence of Nutrients Diffusion on a Metabolism-driven Model of a Multi-cellular System. <i>Fundamenta Informaticae</i> , 2019, 171, 279-295. | 0.3 | 0 |
| 12 | Emerging ensembles of kinetic parameters to characterize observed metabolic phenotypes. <i>BMC Bioinformatics</i> , 2018, 19, 251. | 1.2 | 2 |
| 13 | Linking Alterations in Metabolic Fluxes with Shifts in Metabolite Levels by Means of Kinetic Modeling. <i>Communications in Computer and Information Science</i> , 2017, , 138-148. | 0.4 | 1 |
| 14 | Constraining Mechanism Based Simulations to Identify Ensembles of Parametrizations to Characterize Metabolic Features. <i>Lecture Notes in Computer Science</i> , 2017, , 107-117. | 1.0 | 0 |
| 15 | popFBA: tackling intratumour heterogeneity with Flux Balance Analysis. <i>Bioinformatics</i> , 2017, 33, i311-i318. | 1.8 | 31 |
| 16 | A metabolic core model elucidates how enhanced utilization of glucose and glutamine, with enhanced glutamine-dependent lactate production, promotes cancer cell growth: The WarburQ effect. <i>PLoS Computational Biology</i> , 2017, 13, e1005758. | 1.5 | 64 |
| 17 | Constraint-Based Modeling and Simulation of Cell Populations. <i>Communications in Computer and Information Science</i> , 2017, , 126-137. | 0.4 | 3 |
| 18 | Zooming-in on cancer metabolic rewiring with tissue specific constraint-based models. <i>Computational Biology and Chemistry</i> , 2016, 62, 60-69. | 1.1 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | cuTauLeaping: A GPU-Powered Tau-Leaping Stochastic Simulator for Massive Parallel Analyses of Biological Systems. PLoS ONE, 2014, 9, e91963. | 1.1 | 28 |
| 20 | Computational Strategies for a System-Level Understanding of Metabolism. Metabolites, 2014, 4, 1034-1087. | 1.3 | 54 |
| 21 | An ensemble evolutionary constraint-based approach to understand the emergence of metabolic phenotypes. Natural Computing, 2014, 13, 321-331. | 1.8 | 18 |
| 22 | Molecular Diffusion and Compartmentalization in Signal Transduction Pathways: An Application of Membrane Systems to the Study of Bacterial Chemotaxis. Emergence, Complexity and Computation, 2014, , 65-96. | 0.2 | 1 |
| 23 | In vivo and in silico analysis of PCNA ubiquitylation in the activation of the Post Replication Repair pathway in <i>S. cerevisiae</i> . BMC Systems Biology, 2013, 7, 24. | 3.0 | 7 |
| 24 | Reverse engineering of kinetic reaction networks by means of Cartesian Genetic Programming and Particle Swarm Optimization. , 2013, , . | | 13 |
| 25 | cupSODA: A CUDA-Powered Simulator of Mass-Action Kinetics. Lecture Notes in Computer Science, 2013, , 344-357. | 1.0 | 13 |
| 26 | Estimating reaction constants in stochastic biological systems with a multi-swarm PSO running on GPUs. , 2012, , . | | 19 |
| 27 | The role of feedback control mechanisms on the establishment of oscillatory regimes in the Ras/cAMP/PKA pathway in <i>S. cerevisiae</i> . Eurasip Journal on Bioinformatics and Systems Biology, 2012, 2012, 10. | 1.4 | 26 |
| 28 | Simulation of the Ras/cAMP/PKA pathway in budding yeast highlights the establishment of stable oscillatory states. Biotechnology Advances, 2012, 30, 99-107. | 6.0 | 28 |
| 29 | A GPU-Based Multi-swarm PSO Method for Parameter Estimation in Stochastic Biological Systems Exploiting Discrete-Time Target Series. Lecture Notes in Computer Science, 2012, , 74-85. | 1.0 | 30 |
| 30 | MODELING DIFFUSION IN A SIGNAL TRANSDUCTION PATHWAY: THE USE OF VIRTUAL VOLUMES IN P SYSTEMS. International Journal of Foundations of Computer Science, 2011, 22, 89-96. | 0.8 | 6 |
| 31 | BioSimWare: A Software for the Modeling, Simulation and Analysis of Biological Systems. Lecture Notes in Computer Science, 2010, , 119-143. | 1.0 | 7 |
| 32 | Computing with energy and chemical reactions. Natural Computing, 2010, 9, 493-512. | 1.8 | 6 |
| 33 | BioSimWare: A Simulation Environment for Stochastic Modelling of Complex Biological Systems. Journal of Biotechnology, 2010, 150, 519-520. | 1.9 | 0 |
| 34 | Simulation of the Ras/cAMP/PKA Pathway in Budding Yeast Evidences the Presence of Stable Oscillatory States. Journal of Biotechnology, 2010, 150, 545-545. | 1.9 | 0 |
| 35 | A Novel Variant of P Systems for the Modelling and Simulation of Biochemical Systems. Lecture Notes in Computer Science, 2010, , 210-226. | 1.0 | 3 |
| 36 | Modelling Spatial Heterogeneity and Macromolecular Crowding with Membrane Systems. Lecture Notes in Computer Science, 2010, , 285-304. | 1.0 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | (Tissue) P systems with cell polarity. <i>Mathematical Structures in Computer Science</i> , 2009, 19, 1141-1160. | 0.5 | 2 |
| 38 | Stochastic Simulations on a Grid Framework for Parameter Sweep Applications in Biological Models. , 2009, , . | | 5 |
| 39 | A Multi-volume Approach to Stochastic Modeling with Membrane Systems. <i>Natural Computing Series</i> , 2009, , 519-542. | 2.2 | 6 |
| 40 | First Steps Towards a Wet Implementation for \ddot{I}_{Ca} -DPP. <i>Lecture Notes in Computer Science</i> , 2009, , 355-373. | 1.0 | 2 |
| 41 | A Comparison of Genetic Algorithms and Particle Swarm Optimization for Parameter Estimation in Stochastic Biochemical Systems. <i>Lecture Notes in Computer Science</i> , 2009, , 116-127. | 1.0 | 24 |
| 42 | Modelling metapopulations with stochastic membrane systems. <i>BioSystems</i> , 2008, 91, 499-514. | 0.9 | 45 |
| 43 | Modeling and stochastic simulation of the Ras/cAMP/PKA pathway in the yeast <i>Saccharomyces cerevisiae</i> evidences a key regulatory function for intracellular guanine nucleotides pools. <i>Journal of Biotechnology</i> , 2008, 133, 377-385. | 1.9 | 46 |
| 44 | Membrane systems in systems biology. , 2008, , . | | 2 |
| 45 | Seasonal variance in P system models for metapopulations. <i>Progress in Natural Science: Materials International</i> , 2007, 17, 392-400. | 1.8 | 8 |
| 46 | Cycles and communicating classes in membrane systems and molecular dynamics. <i>Theoretical Computer Science</i> , 2007, 372, 242-266. | 0.5 | 6 |
| 47 | A new technique for fluid velocimetry based on near field scattering. <i>Optics and Lasers in Engineering</i> , 2006, 44, 722-731. | 2.0 | 6 |
| 48 | A new particle sizing technique based on near field scattering. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 150, 334-338. | 0.5 | 3 |
| 49 | DYNAMICAL PROBABILISTIC P SYSTEMS. <i>International Journal of Foundations of Computer Science</i> , 2006, 17, 183-204. | 0.8 | 79 |
| 50 | Towards a P Systems <i>Pseudomonas</i> Quorum Sensing Model. <i>Lecture Notes in Computer Science</i> , 2006, , 197-214. | 1.0 | 13 |
| 51 | Tau Leaping Stochastic Simulation Method in P Systems. <i>Lecture Notes in Computer Science</i> , 2006, , 298-313. | 1.0 | 28 |
| 52 | Towards Probabilistic Model Checking on P Systems Using PRISM. <i>Lecture Notes in Computer Science</i> , 2006, , 477-495. | 1.0 | 21 |
| 53 | Investigating local evolutions in dynamical probabilistic P systems. , 2005, , . | | 7 |
| 54 | Heterodyne near-field scattering: A technique for complex fluids. <i>Physical Review E</i> , 2004, 70, 041405. | 0.8 | 57 |

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|----|--|-----|-----------|
| 55 | A novel particle sizing technique based on near field scattering., 2004, , . | | 1 |
| 56 | GPU-powered Simulation Methodologies for Biological Systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 130, 87-91. | 0.8 | 2 |
| 57 | An Analysis on the Influence of Network Topologies on Local and Global Dynamics of Metapopulation Systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 33, 1-17. | 0.8 | 5 |
| 58 | A study on the combined interplay between stochastic fluctuations and the number of flagella in bacterial chemotaxis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 6, 47-62. | 0.8 | 5 |
| 59 | An ensemble approach to the study of the emergence of metabolic and proliferative disorders via Flux Balance Analysis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 130, 92-97. | 0.8 | 0 |