

Sergio Decherchi

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,791
citations

361413
20
h-index

276875
41
g-index

66
all docs

66
docs citations

66
times ranked

2151
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Probing Interplays between Human XBP1u Translational Arrest Peptide and 80S Ribosome. Journal of Chemical Theory and Computation, 2022, 18, 1905-1914. | 5.3 | 5 |
| 2 | Using Principal Paths to Walk Through Music and Visual Art Style Spaces Induced by Convolutional Neural Networks. Cognitive Computation, 2021, 13, 570-582. | 5.2 | 15 |
| 3 | Editorial: Molecular Dynamics and Machine Learning in Drug Discovery. Frontiers in Molecular Biosciences, 2021, 8, 673773. | 3.5 | 8 |
| 4 | Molecular Recognition by Gold Nanoparticle-Based Receptors as Defined through Surface Morphology and Pockets Fingerprint. Journal of Physical Chemistry Letters, 2021, 12, 5616-5622. | 4.6 | 5 |
| 5 | An Ab Initio Local Principal Path Algorithm. , 2021, , . | | 0 |
| 6 | On the Stability of Feature Selection in Multiomics Data. , 2021, , . | | 1 |
| 7 | Machine Learning and Enhanced Sampling Simulations for Computing the Potential of Mean Force and Standard Binding Free Energy. Journal of Chemical Theory and Computation, 2021, 17, 5287-5300. | 5.3 | 23 |
| 8 | Opportunities and Challenges for Machine Learning in Rare Diseases. Frontiers in Medicine, 2021, 8, 747612. | 2.6 | 31 |
| 9 | Multi-target dopamine D3 receptor modulators: Actionable knowledge for drug design from molecular dynamics and machine learning. European Journal of Medicinal Chemistry, 2020, 188, 111975. | 5.5 | 19 |
| 10 | Thermodynamics and Kinetics of Drug-Target Binding by Molecular Simulation. Chemical Reviews, 2020, 120, 12788-12833. | 47.7 | 126 |
| 11 | Fast and Memory-Efficient Import Vector Domain Description. Neural Processing Letters, 2020, 52, 511-524. | 3.2 | 1 |
| 12 | <i>Spathial</i> : an R package for the evolutionary analysis of biological data. Bioinformatics, 2020, 36, 4664-4667. | 4.1 | 7 |
| 13 | Solubility Advantage of Amorphous Ketoprofen. Thermodynamic and Kinetic Aspects by Molecular Dynamics and Free Energy Approaches. Journal of Chemical Theory and Computation, 2020, 16, 4126-4140. | 5.3 | 3 |
| 14 | Investigating Drug-Target Residence Time in Kinases through Enhanced Sampling Simulations. Journal of Chemical Theory and Computation, 2019, 15, 4646-4659. | 5.3 | 32 |
| 15 | Cognitive Insights into Sentic Spaces Using Principal Paths. Cognitive Computation, 2019, 11, 656-675. | 5.2 | 8 |
| 16 | Structure, Thermodynamics, and Kinetics of Plinabulin Binding to Two Tubulin Isoforms. Chem, 2019, 5, 2969-2986. | 11.7 | 33 |
| 17 | Simple Learning with a Teacher via Biased Regularized Least Squares. Lecture Notes in Computer Science, 2019, , 14-25. | 1.3 | 1 |
| 18 | NanoShaper-VMD interface: computing and visualizing surfaces, pockets and channels in molecular systems. Bioinformatics, 2019, 35, 1241-1243. | 4.1 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Finding Principal Paths in Data Space. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2449-2462. | 11.3 | 15 |
| 20 | BiKi Life Sciences: A New Suite for Molecular Dynamics and Related Methods in Drug Discovery. Journal of Chemical Information and Modeling, 2018, 58, 219-224. | 5.4 | 48 |
| 21 | Fast Dynamic Docking Guided by Adaptive Electrostatic Bias: The MD-Binding Approach. Journal of Chemical Theory and Computation, 2018, 14, 1727-1736. | 5.3 | 40 |
| 22 | Import Vector Domain Description: A Kernel Logistic One-Class Learning Algorithm. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1722-1729. | 11.3 | 11 |
| 23 | Allosteric Communication Networks in Proteins Revealed through Pocket Crosstalk Analysis. ACS Central Science, 2017, 3, 949-960. | 11.3 | 60 |
| 24 | Distributed Kernel K-Means for Large Scale Clustering. , 2017, , . | | 3 |
| 25 | Molecular Dynamics Simulations and Kinetic Measurements to Estimate and Predict Proteinâ€™Ligand Residence Times. Journal of Medicinal Chemistry, 2016, 59, 7167-7176. | 6.4 | 81 |
| 26 | Probing Hydration Patterns in Class-A GPCRs via Biased MD: The A_{2A} Receptor. Journal of Chemical Theory and Computation, 2016, 12, 6049-6061. | 5.3 | 18 |
| 27 | SIM-ELM: Connecting the ELM model with similarity-function learning. Neural Networks, 2016, 74, 22-34. | 5.9 | 9 |
| 28 | Inductive bias for semi-supervised extreme learning machine. Neurocomputing, 2016, 174, 154-167. | 5.9 | 7 |
| 29 | Kinetics of protein-ligand unbinding via smoothed potential molecular dynamics simulations. Scientific Reports, 2015, 5, 11539. | 3.3 | 132 |
| 30 | Implicit solvent methods for free energy estimation. European Journal of Medicinal Chemistry, 2015, 91, 27-42. | 5.5 | 46 |
| 31 | The ligand binding mechanism to purine nucleoside phosphorylase elucidated via molecular dynamics and machine learning. Nature Communications, 2015, 6, 6155. | 12.8 | 98 |
| 32 | A Pipeline To Enhance Ligand Virtual Screening: Integrating Molecular Dynamics and Fingerprints for Ligand and Proteins. Journal of Chemical Information and Modeling, 2015, 55, 2256-2274. | 5.4 | 65 |
| 33 | Inductive Bias for Semi-supervised Extreme Learning Machine. Proceedings in Adaptation, Learning and Optimization, 2015, , 61-70. | 1.6 | 4 |
| 34 | Building and Analyzing Molecular Surfaces: A Tutorial on NanoShaper. , 2015, , 199-213. | | 1 |
| 35 | Semi-supervised machine learning approach for unknown malicious software detection. , 2014, , . | | 4 |
| 36 | CUDA accelerated molecular surface generation. Concurrency Computation Practice and Experience, 2014, 26, 1819-1831. | 2.2 | 4 |

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|----|--|------|-----------|
| 37 | Describing the Conformational Landscape of Small Organic Molecules through Gaussian Mixtures in Dihedral Space. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2557-2568. | 5.3 | 10 |
| 38 | Solving the Linearized Poisson-Boltzmann Equation on GPUs Using CUDA. , 2013, , . | | 2 |
| 39 | Circular-ELM for the reduced-reference assessment of perceived image quality. <i>Neurocomputing</i> , 2013, 102, 78-89. | 5.9 | 66 |
| 40 | Extreme Learning Machines [Trends & Controversies]. <i>IEEE Intelligent Systems</i> , 2013, 28, 30-59. | 4.0 | 329 |
| 41 | Between Algorithm and Model: Different Molecular Surface Definitions for the Poisson-Boltzmann Based Electrostatic Characterization of Biomolecules in Solution. <i>Communications in Computational Physics</i> , 2013, 13, 61-89. | 1.7 | 46 |
| 42 | A general and Robust Ray-Casting-Based Algorithm for Triangulating Surfaces at the Nanoscale. <i>PLoS ONE</i> , 2013, 8, e59744. | 2.5 | 98 |
| 43 | Efficient Digital Implementation of Extreme Learning Machines for Classification. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2012, 59, 496-500. | 3.0 | 73 |
| 44 | Learning the mean: A neural network approach. <i>Neurocomputing</i> , 2012, 77, 129-143. | 5.9 | 4 |
| 45 | CUDA Accelerated Blobby Molecular Surface Generation. <i>Lecture Notes in Computer Science</i> , 2012, , 347-356. | 1.3 | 5 |
| 46 | Computational intelligence methods for underwater magnetic-based protection systems. , 2011, , . | | 2 |
| 47 | Tactile-Data Classification of Contact Materials Using Computational Intelligence. <i>IEEE Transactions on Robotics</i> , 2011, 27, 635-639. | 10.3 | 91 |
| 48 | Efficient approximate Regularized Least Squares by Toeplitz matrix. <i>Pattern Recognition Letters</i> , 2011, 32, 468-475. | 4.2 | 1 |
| 49 | Operative assessment of predicted generalization errors on non-stationary distributions in data-intensive applications. <i>Intelligent Data Analysis</i> , 2011, 15, 193-214. | 0.9 | 0 |
| 50 | SeaLab Advanced Information Retrieval. , 2010, , . | | 7 |
| 51 | Using Unsupervised Analysis to Constrain Generalization Bounds for Support Vector Classifiers. <i>IEEE Transactions on Neural Networks</i> , 2010, 21, 424-438. | 4.2 | 20 |
| 52 | A neural model approach for regularization in the mean estimation case. , 2010, , . | | 1 |
| 53 | Circuit implementation of SVM training. , 2009, , . | | 0 |
| 54 | Maximal-discrepancy bounds for regularized classifiers. , 2009, , . | | 1 |

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|----|--|-----|-----------|
| 55 | Text Clustering for Digital Forensics Analysis. Advances in Intelligent and Soft Computing, 2009, , 29-36. | 0.2 | 26 |
| 56 | K-Means Clustering for Content-Based Document Management in Intelligence. Intelligent Information Systems, 2009, , 287-323. | 0.1 | 7 |
| 57 | A Preliminary Study on SVM Based Analysis of Underwater Magnetic Signals for Port Protection. Advances in Intelligent and Soft Computing, 2009, , 37-44. | 0.2 | 3 |
| 58 | Hypermetric k-Means Clustering for Content-Based Document Management. Advances in Soft Computing, 2009, , 61-68. | 0.4 | 0 |
| 59 | Low-complexity, linear circuit implementation of support vector machines training. Electronics Letters, 2008, 44, 1478. | 1.0 | 2 |
| 60 | Non-stationary Data Mining: The Network Security Issue. Lecture Notes in Computer Science, 2008, , 32-41. | 1.3 | 1 |
| 61 | Embedded Electronics Systems for Training Support Vector Machines. , 2006, , . | | 1 |
| 62 | Probabilistic Pocket Druggability Prediction via One-Class Learning. Frontiers in Pharmacology, 0, 13, . | 3.5 | 4 |