Yosef Masoudi-Sobhanzadeh

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Academic Resume

Academic Background

2004-2008	**BS**, University college of Nabi-Akram, Tabriz, Iran. Computer engineering
2009-2011	**MS**, Iran Payam Noor University, Tehran, Iran. Computer engineering
2016-2019	**Ph.D**, University of Tehran, Tehran, Iran. Bioinformatics

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Postdoctoral

2019-2020	University of Tehran, Tehran, Iran.

Academic Experience

2017-2018	Teaching, Sahand University, Tabriz, Iran.
2013-Today	Teaching, Azarbaijan Sahhid Madani University, Tabriz, Iran.
2011-Today	Teaching, Islamic Azad University, Tabriz, Iran.

Teaching

Machine Learning
Evolutionary computing
Algorithm design
Bioinformatics
Artificial intelligence
Database design

Research Interest

Computational biology

Machine Learning

Algorithm Design

Drug Repurposing

Drug Design

Publications (Journal Articles)

[1] **Masoudi-Sobhanzadeh, Y.,** Motieghader, H., Omidi, Y., & Masoudi-Nejad, A. (2021). A machine learning method based on the genetic and world competitive contests algorithms for selecting genes or features in biological applications. **Scientific Reports**, 11(1), 1-19.

[2] **Masoudi-Sobhanzadeh, Y.,** & Masoudi-Nejad, A. (2020). Synthetic repurposing of drugs against hypertension: a datamining method based on association rules and a novel discrete algorithm. **BMC bioinformatics,** *21*(1), 1-21.

[3] **Masoudi-Sobhanzadeh, Y**., Omidi, Y., Amanlou, M., & Masoudi-Nejad, A. (2020). Drug databases and their contributions to drug repurposing. **Genomics**, *112*(2), 1087-1095.

[4] **Masoudi-Sobhanzadeh, Y**. (2020). Computational-based drug repurposing methods in COVID-19. **BioImpacts***: BI*, *10*(3), 205.

[5] **Masoudi-Sobhanzadeh, Y**., Omidi, Y., Amanlou, M., & Masoudi-Nejad, A. (2019). Trader as a new optimization algorithm predicts drug-target interactions efficiently. **Scientific Reports**, 9(1), 9348.

[6] **Masoudi-Sobhanzadeh, Y**., Omidi, Y., Amanlou, M., & Masoudi-Nejad, A. (2019). DrugR+: A comprehensive relational database for drug repurposing, combination therapy, and replacement therapy. **Computers in biology and medicine**, 109, 254-262.

[7] **Masoudi-Sobhanzadeh, Y**., Motieghader, H., & Masoudi-Nejad, A. (2019). FeatureSelect: a software for feature selection based on machine learning approaches. **BMC bioinformatics**, 20(1), 170.

[8] **Masoudi-Sobhanzadeh, Y.**, & Motieghader, H. (2016). World Competitive Contests (WCC) algorithm: A novel intelligent optimization algorithm for biological and non-biological problems. **Informatics in Medicine Unlocked**, 3, 15-28.

[9] MotieGhader, H., **Masoudi-Sobhanzadeh, Y**., Ashtiani, S. H., & Masoudi-Nejad, A. (2020). mRNA and microRNA selection for breast cancer molecular subtype stratification using meta-heuristic based algorithms. **Genomics**, *112*(5), 3207-3217.

[10] Pournoor, E., Elmi, N., **Masoudi-Sobhanzadeh, Y.,** & Masoudi-Nejad, A. (2019). Disease global behavior: a systematic study of the human interactome network reveals conserved topological features among categories of diseases. **Informatics in Medicine Unlocked**, *17*, 100249.

[11] MotieGhader, H., Gharaghani, S., **Masoudi-Sobhanzadeh, Y**., & Masoudi-Nejad, A. (2017). Sequential and mixed genetic algorithm and learning automata (SGALA, MGALA) for feature selection in QSAR. **Iranian journal of pharmaceutical research: IJPR**, *16*(2), 533.

Books

[1] **Masoudi-Sobhanzadeh, Y.**, Ali Masoudi-Nejad Machine learning in biology, English book chapter, Elsevier, **2020**.

[2] **Masoudi-Sobhanzadeh, Y.**, Data storage and retrieval, Persian book, Altin, **2013**.

English ability

University of Tehran's English test center, Iran, Tehran.

Score= **76** out of 100. (**2017**)

Implemented APP

1- **FeatureSelect** (**https://github.com/LBBSoft/FeatureSelect**)

2- **DrugR+** (**http://drugr.ir/)**

3- **Accounting** web-based application of Shahid Madani University

4- **Logistics** windows-based application of Sahand university

5- **Accounting** windows-based application of Sahand University

6- Software for **organizing** of persons with disabilities

7- **digitat.online** website