



# Mahdi Vasighi

**Assistant Professor**

**IASBS, Department of Computer Science and IT**

## Publications

### Journals

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- Nedyalkova, Miroslava and Vasighi, Mahdi and Azmoon, Amirreza and Naneva, Ludmila and Simeonov, Vasil, "Sequence-Based Prediction of Plant Allergenic Proteins: Machine Learning Classification Approach", ACS Omega, 2023
- Soleymani, Fazlollah and Vasighi, Mahdi, "Efficient portfolio construction by means of CVaR and k-means++ clustering analysis: Evidence from the NYSE", International Journal of Finance & Economics, Vol. 27, NO. 3, 2022
- Vasighi, Mahdi and Romanova, Julia and Nedyalkova, Miroslava, "A multilevel approach for screening natural compounds as an antiviral agent for COVID-19", Computational Biology and Chemistry, Vol. 98, NO. 12, 2022
- Vakarelska, Ekaterina and Nedyalkova, Miroslava and Vasighi, Mahdi and Simeonov, Vasil, "Persistent organic pollutants (POPs)-QSPR classification models by means of Machine learning strategies", Chemosphere, Vol. 287, NO. 2, 2022
- Nedyalkova, Miroslava and Vasighi, Mahdi and Sappati, Subrahmanyam and Kumar, Anmol and Madurga, Sergio and Simeonov, Vasil, "Inhibition Ability of Natural Compounds on Receptor-Binding Domain of SARS-CoV2: An In Silico Approach", Pharmaceuticals, Vol. 14, NO. 12, 2021



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- Kavianpour, Hamidreza and Vasighi, Mahdi, "Structural classification of proteins using texture descriptors extracted from the cellular automata image", *Amino Acids*, Vol. 49, NO. 2, 2017
- Shahbazy, Mohammad and Vasighi, Mahdi and Kompany-Zareh, Mohsen and Ballabio, Davide, "Oblique rotation of factors: a



- novel pattern recognition strategy to classify fluorescence excitation--emission matrices of human blood plasma for early diagnosis of colorectal cancer", *Molecular BioSystems*, Vol. 12, NO. 6, 2016
- Vasighi, Mahdi and Kompany-Zareh, Mohsen, "Classification Ability of Self Organizing Maps in Comparison with Other Classification Methods", *MATCH Communications in Mathematical and in Computer Chemistry*, Vol. 70, NO. 10, 2013
  - Vasighi, Mahdi and Zahraei, Ali and Bagheri, Saeed and Vafaeimanesh, Jamshid, "Diagnosis of coronary heart disease based on <sup>1</sup>H NMR spectra of human blood plasma using genetic algorithm-based feature selection", *Journal of Chemometrics*, Vol. 27, NO. 10, 2013
  - Ballabio, Davide and Vasighi, Mahdi and Filzmoser, Peter, "Effects of supervised Self Organising Maps parameters on classification performance", *Analytica chimica acta*, Vol. 765, NO. 1, 2013
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## Conferences

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