

CURRICULUM VITAE – DAVORKA R. JANDRLIĆ

PERSONAL INFORMATION

Davorka Jandrić
djandrljic@mas.bg.ac.rs
Dep.of Mathematics, Univ.of Belgrade
<https://mat.mas.bg.ac.rs/djandrljic/>
Kraljice Marije 16
11000 Beograd



POSITION

2022 – Associate professor,
Department of Mathematics,
Faculty of mechanical engineering
2017–2022 Assistant professor,
Department of Mathematics,
Faculty of mechanical engineering

2005–2016 Teaching assistant,
Department of Mathematics, Faculty of mechanical engineering.

Courses:

- Programming languages Fortran, C, C++, JAVA,
- Computational tools (MATLab),
- Mathematics 1,
- Numerical methods,
- Data structures and
- Algorithms.

EDUCATION

(2016) **PhD thesis** . *Application of association rule and support vector machine for T-cell epitope prediction*. Faculty of Mathematics, University of Belgrade, supervisor: prof.Nenad Mitić

(2010) **Master thesis**. *Application of data mining techniques to the establishment of correlation between the disordered and antigen regions of the protein*. Faculty of Mathematics, University of Belgrade, supervisor: prof.Nenad Mitić

Undergraduate studies (2004). Faculty of Mathematics, University of Belgrade

PUBLICATIONS

Jandrljic, D. R., Pejcev A. V., Spalevic M. M., *Error estimates of Kronrod extension for Gauss-Radau and Gauss-Lobatto quadrature with the four Chebyshev weights*, Filomat, Vol 36, Issue 3, Pages: 961-977, 2022, [DOI:10.2298/FIL2203961J](https://doi.org/10.2298/FIL2203961J)

Jandrlic, D. R., Krtinic Dj. M., Mihic Lj. V., Pejcev A. V., Spalevic M. M., *Error bounds of Gaussian quadrature formulae with Legendre weight function for analytic integrands*, ETNA, Vol 55, pp. 424-437, 2022, DOI:10.1553/etna_vol55s424

Jandrlic, D. R., Spalevic M. M., Tomanovic J.D., *Error Estimates for Certain Cubature Formulae*, Filomat, Vol 32, No20(2018), DOI:10.2298/FIL1820893J

Jandrlic, D. R. (2016). *SVM and SVR-based MHC-binding prediction using a mathematical presentation of peptide sequences*. ComputBiolChem, 65, 117-127. doi:10.1016/j.compbiolchem.2016.10.011

Jandrlic, D. R., Lazic, G. M., Mitic, N. S., Pavlovic, M. D. (2016). *Software tools for simultaneous data visualization and T cell epitopes and disorder prediction in proteins*. J Biomed Inform, (Elsevier), 60, 120-131. doi:10.1016/j.jbi.2016.01.016

Jandrlic, D. R. (2016). *The rule based classification models for mhc binding prediction and identification of the most relevant physicochemical properties for the individual allele*. University thought - Publication in Natural Sciences, vol 6, No 1, 2016, pp60-66

Mitic, N. S., Pavlovic, M. D., Jandrlic, D. R. (2014). *Epitope distribution in ordered and disordered protein regions - part A. T-cell epitope frequency, affinity and hydrophathy*. J Immunol Methods, (Elsevier), 406, 83-103. doi:10.1016/j.jim.2014.02.012

Pavlovic, M. D., Jandrlic, D. R., Mitic, N. S. (2014). *Epitope distribution in ordered and disordered protein regions. Part B - Ordered regions and disordered binding sites are targets of T- and B-cell immunity*. J Immunol Methods, (Elsevier), 407, 90-107. doi:10.1016/j.jim.2014.03.027

Radenovic S., Kadelburg Z., Jandrlic D. R., Jandrlic A. Ž. (2012). *Some Results on Weakly Contractive Maps*. BULLETIN OF THE IRANIAN MATHEMATICAL SOCIETY, 38 (3), 625-645. http://bims.iranjournals.ir/article_229.html

SOFTWARE

EpDis tool <http://bioinfo.matf.bg.ac.rs/home/downloads.wafl?cat=Software>

RESEARCH INTERESTS

Applied mathematics, Application and development of machine learning algorithms, Software development, Data mining, Bioinformatics