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PhD, University of Zagreb 2003.

Research interest: Discrete mathematics, graph theory, mathematical chemistry, complex network theory, bioinformatics

Recent publications:

- [1] D. Vukičević, Comparing variable Zagreb indices, *MATCH Commun. Math. Comput. Chem*, **57** (3) (2007) 633-641.
- [2] D. Vukičević and P. Žigert, Binary Coding of Algebraic Kekule Structures of Catacondensed Benzenoid Graphs, *Appl. Math. Lett*, **21** (2008) (7) 712-716.
- [3] P. Hansen and D. Vukičević, Variable Neighborhood Search for Extremal Graphs. 23. On the Randić Index and Chromatic Number, *Discrete Math*, **309** (13) (2009) 4228-4234.
- [4] D. Vukičević and Tomaž Pisanski: On the extremal values of ratios of number of paths, *Ars Math. Contemp*, **3** (2010) 215–235.
- [5] D. Vukičević: Which Generalized Randić Indices are Suitable Measure of Molecular Branching, *Discrete Appl. Math*, **158** (18) (2010) 2056-2065.

Selected publications:

- [1] Milan Randić, Nella Lerš, Damir Vukičević, Dejan Plavšić, Subhash C. Basak and Brian D. Gute: On Canonical Labeling of Proteome Maps, *Journal of Proteome Research* 4 (4) (2005) 1347-1352
- [2] D. Veljan and D. Vukičević : "On Acyclic Molecular Graphs with Prescribed Numbers of Edges that Connect Vertices with Given Degrees", *Journal of Mathematical Chemistry* 40 (2006) 155-178
- [3] M. Randić, H. Kroto and D. Vukičević: Numerical Kekulé Structures and Partitioning of π -Electrons to Pentagonal and Hexagonal Rings, *Journal of Chemical Information and Modelling*, 47 (2007) 897-904
- [4] D. Juretić, D. Vukičević, N. Ilić, N. Antcheva and A. Tossi, Design of selective peptide antibiotics by using the sequence moment concept, *J. Chem. Inf. Model*, **49** (12) (2009) 2873–2882.
- [5] D. Vukicevic: Chor Coefficient – Measuring Correlation in Chemistry, *MATCH Commun. Math. Comput. Chem*, **65** (2011) 365-382.