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Research interest: Mathematical analysis, Probability theory, Mathematical inequalities and applications.

Recent publications:

- [1] M. Matić, J. Pečarić and A. Vukelić, *On generalization of Bullen-Simpson's inequality*, **Rocky Mountain J. Math.** **35** (2005), no. 5, 1727-1754.
- [2] A. Aglič Aljinovič, Lj. Dedić, M. Matić and J. Pečarić, *On weighted Euler harmonic identities with applications*, **Math. Inequal. Appl.** **8** (2005), no. 2, 237-257.
- [3] S. Abramovich, M. Klaričić Bakula, M. Matić and J. Pečarić, *A variant of Jensen-Steffensen's inequality and quasi-arithmetic means*, **J. Math. Anal. Appl.** **307** (2005), no. 1, 370-386.
- [4] M. Matić, J. Pečarić and A. Vukelić, *On generalization of Bullen-Simpson's 3/8 inequality*, **Math. Comput. Modelling** **41** (2005), no. 4-5, 463-483.
- [5] S. Abramovich, S. Banić and M. Matić, *Superquadratic functions in several variables*, **J. Math. Anal. Appl.** **327** (2007), 1444-1460.

Selected publications:

- [1] M. Matić, *Improvement of some estimations related to the remainder in generalized Taylor's formula*, **Math. Inequal. Appl.** **5** (2002), no. 4, 637--648.
- [2] M. Matić, *Improvement of some inequalities of Euler-Grüss type*, **Comput. Math. Applic.** **46** (2003), 1325-1336.
- [3] M. Matić and J. Pečarić, *Some companion inequalities to Jensen's inequality*, **Math. Inequal. Appl.** **3** (2000), no. 3, 355--368.
- [4] M. Matić, J. Pečarić and N. Ujević, *Weighted version of multivariate Ostrowski type inequalities*, **Rocky Mount. Jour. Math.** **31** (2001), no. 2, 511-538.
- [5] M. Matić, C. E. M. Pearce and J. Pečarić, *On an inequality for the entropy of a probability distribution*, **Acta Math. Hungar.** **85** (1999), no. 4, 345--349.