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Research interest: Mathematical inequalities, Numerical analysis

Recent publications:

[1] G. Aras-Gazić, J. Pečarić, A. Vukelić: *"Generalization of Jensen's inequality by Euler's identity and related results"*, **Adv. Studies Contemp. Math. 24**(2) (2014), 247-268.
[2] G. Aras-Gazić, V. Čuljak, J. Pečarić, A. Vukelić: *„Generalization of Jensen's inequality by Lidstone's polynomial and related results"*, **Math. Ineq. Appl. 16**(4) (2013), 1243-1267.
[3] G. Roqia, J. Pečarić, A. Vukelić: *„n–exponential convexity of divided differences and related Stolarsky type menas"*, **Math. Ineq. Appl. 16**(4) (2013), 1043-1063.
[4] Z. Pavić, J. Pečarić, A. Vukelić: *„Means for Divided Differences and Exponential Convexity"*, **Mediterr. J. Math. 9**(1) (2012), 187-198.
[5] Z. Pavić, J. Pečarić, A. Vukelić: *Exponential convexity and Jensen inequality for divided differences"*, **J. Math. Inequal. 5**(2) (2011), 157-168.

Selected publications:

[1] J. Pečarić, M. Ribičić Penava, A. Vukelić: *„Euler's method for weighted integral formulae"*, **Appl. Math. Comput. 206**(1) (2008), 445-456.
[2] S. Kovač, J. Pečarić, A. Vukelić: *A generalization of general two-point formula with applications in numerical integration*, **Nonlinear Anal.-Theory Methods Appl. 68**(8) (2008), 2445-2463.
[3] J. Pečarić, A. Vukelić: *„Montgomery's identities for function of two variables"*, **J. Math. Anal. Appl. 332**(1) (2007), 617-630.
[4] M. Matić, J. Pečarić, A. Vukelić: *„On generalization of Bullen-Simpson's 3/8 inequality"*, **Math. Comput. Model. 41** (2005), 463-483.
[5] J. Pečarić, I. Perić, A. Vukelić: *„Sharp integral inequalities based on general Euler two-point formulae"*, **ANZIAM J. 46** (2005), 555-574.