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Research interest: Real analysis, Function spaces, Convex functions, Inequality theory

## Recent publications:

- [1] A. Čižmešija, I. Perić, and P. Vuković, *Inequalities of the Hilbert type in  $\mathbf{R}^n$  with non-conjugate exponents*, 2007, to appear in **Proc. Edinb. Math. Soc.**
- [2] J. A. Oguntuase, L.-E. Persson, and A. Čižmešija, *Multidimensional Hardy - Type Inequalities via Convexity*, 2007, to appear in **Bull. Austral. Math. Soc.**
- [3] A. Čižmešija, M. Krnić, and J. Pečarić, *General Hilbert - Type Inequalities with Non-conjugate Exponents*, 2007, to appear in **Math. Inequal. Appl.**
- [4] A. Čižmešija, *On weighted discrete Hardy's inequality for negative power numbers*, **Math. Inequal. Appl.** **8(2)** (2005), 273-285.
- [5] A. Čižmešija, L.-E. Persson, and A. Wedestig, *Weighted integral inequalities for Hardy and geometric mean operators with kernels over cones in  $\mathbf{R}^n$* , **Ital. J. Pure Appl. Math.** **18** (2005), 89-118.

## Selected publications:

- [1] A. Čižmešija, I. Perić, *Mixed means over balls and annuli and lower bounds for the operator norms of the maximal functions*, **J. Math. Anal. Appl.** **291(2)** (2004), 625-637.
- [2] A. Čižmešija, J. Pečarić, and L.-E. Persson, *On strengthened Hardy and Polya-Knopp's inequalities*, **J. Approx. Theory** **125** (2003), 74-84.
- [3] A. Čižmešija, J. Pečarić, and L.-E. Persson, *On strengthened weighted Carleman's inequality*, **Bull. Austral. Math. Soc.** **68** (2003), 481-490.
- [4] A. Čižmešija, J. Pečarić, and I. Perić, *Mixed Means and Inequalities of Hardy and Levin-Cochran-Lee Type for Multidimensional Balls*, **Proc. Amer. Math. Soc.** **128(9)** (2000), 2543-2552.
- [5] A. Čižmešija, J. Pečarić, *Mixed means and Hardy's inequality*, **Math. Inequal. Appl.** **1(4)** (1998), 491-506.