

A LOOK AT THE WORK OF JOSIP PEČARIĆ

PETER BULLEN

Abstract. This paper is a version of an address to the conference Mathematical Inequalities and Applications 2008 held in Trogir, Croatia June 8–14 to honour Professor J. Pečarić's 60th birthday.

Mathematics subject classification (2000): 01A65, 26D15.

Keywords and phrases: inequalities; convexity; positive linear functionals.

A SHORT LIST OF SOURCES

- [1] Inverse of Jensen-Steffensen inequality, *Glasnik Mat.*, 16 (1981), 229–233.
- [2] On Jessen's inequality for convex functions, *J. Math. Anal. Appl.*, 110 (1985), 536–552; 118 (1986), 125–144: [with P. R. Beesack].
- [3] On Knopp's Inequality for convex functions, *Canad. Math. Bull.*, 30 (1987), 267–271: [with P. R. Beesack].
- [4] Thermodynamics, inequalities and negative heat capacities, *Phys. Rev.*, A35 (1987), 4397–4403: [with P. T. Landsberg].
- [5] *Convex Functions, Partial Orderings and Statistical Applications*, Academic Press, New York 1992: [with F. Proschan & Y. L. Tong].
- [6] On Bernoulli's inequality, *Rend. Circ. Mat. Palermo*, 42(2) (1993) 317–337: [with D. S. Mitrinović].
- [7] *Classical and New Inequalities in Analysis*, Kluwer Academic Publishers, 1993: [with D. S. Mitrinović & A. M. Fink].
- [8] On the geometric-mean-arithmetic mean inequality for matrices, *Math. Comm.*, 2 (1997), 125–128: [with P. S. Bullen & V. Volenec].
- [9] Sharpening Hölder's and Popoviciu's inequalities via functionals, *Rocky Mountain J. Math.*, 34 (2004), 793–810: [with S. Abramovich & S. Varošanec].
- [10] Carleman's inequality; history and generalization, *Æquationes Math.*, 651 (2001), 49–62: [with K. B. Stolarsky].
- [11] *Mond-Pečarić in Operator Inequalities Inequalities for Bounded Selfadjoint Operators on a Hilbert Space*, Element, Zagreb, 2005: [with T. Furuta, J. Mićić Hot & Y. Seo].
- [12] A variant of Jensen's inequality for convex functions of several variables, *J. Ineq. Appl.*, 1 (2007), 45–51: [with A. Matković].
- [13] On weighted L-conjugate means, *Comm. Appl. Anal.*, 11 (2007), 95–110: [with M. Klaričić Bakula & Z. Páles].

OTHER REFERENCES

- (Bul) P. S. BULLEN, *Handbook of Means and Their Inequalities*, Kluwer Academic Publishers, Dordrecht, 2003.
- (D&P) Ž. DARÓCZY & Z. PÁLES, On a class of means of several variables, *Math. Ineq. App.*, 4 (2001), (20), 331–334.
- (Je) B. JESSEN, Bemerkinger om konvekse Funktioner og Ulligheder imellem Middelværdier, I, II, *Mat. Tidsskr.*, B (1931), 17–28, 84–95.
- (Mc) E. J. MCSHANE, Jensen's inequality, *Bull. Amer. Math. Soc.*, 45 (1937), 521–527.