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Research interest: Geometry; Non-associative algebra; Inequalities

Recent publications:

- [1] M.Alić, P.S.Bullen, J.Pečarić and V.Volenec, *Gerber's inequality and some related inequalities*, **Math.Inequal.Appl.** **1**(1998), 507-516.
- [2] V.Krčadinac and V.Volenec, *A class of quasigroups associated with a cubic Pisot number*, **Quasigroups and Related Systems** **13** (2005), 269-280.
- [3] V.Volenec, *$\alpha\beta\gamma$ -technology in the triangle geometry*, **Math.Commun.** **10** (2005), 153-161.
- [4] V.Krčadinac and V.Volenec, *The plastic quasigroups*, **Math.Pannonica** **18** (2007), 43-50.
- [5] V.Volenec and M.Bombardelli, *Symmetries in hexagonal quasigroups*, **Arch.Math. (Brno)** **43**(2007), 123-132.

Selected publications:

- [1] V.Volenec, *Axiomatic foundation of the n -dimensional Möbius geometry*, **Publ.Math. Debrecen** **23** (1976), 89-102.
- [2] V.Volenec, *A characterization of laterally commutative heaps*, **Algebra Univ.** **25** (1988), 388-390.
- [3] V.Volenec, *Heaps and right solvable Ward quasigroups*, **J.of Algebra** **156** (1993), 1-4.
- [4] M.Alić, B.Mond, J.Pečarić and V.Volenec, *Bounds for the differences of matrix means*, **SIAM J.Matrix Anal.Appl.** **18** (1997), 15-20.
- [5] V.Volenec, D.Veljan and J.Pečarić, *Inequalities for volumes of simplices in terms of their faces*, **Geom.Ded.** **73** (1998), 57-62.