## New refinements of some inequalities

## Augusta Rațiu

Department of Mathematics and Informatics, Lucian Blaga University of Sibiu (Romania) augusta.ratiu@ulbsibiu.ro

Inequality Cauchy—Buniakowski—Schwarz and Aczél's inequality were studied by many mathematicians in their papers. We establish some new refinements of these, through the technique of monotony of a sequence.

## References

- [1] S.S.Dragomir, B. Mond, Some inequalities of Aczél type for Gramians in inner product spaces, Nonlinear Funct. Anal. Appl. 6 (2001), 411–424.
- [2] V. Mascioni, A note on Aczél type inequalities, J. Inequalities Pure Appl. Math., 3 (2002), Article 69, 5 pages.
- [3] S. Wu, Some improvements of Aczél' s inequality and Popoviciu's inequality, Comput Math. Appl., 56 (2008), 1196–1205.
- [4] D. Mărghidanu, J. L. Díaz-Barrero, S. Rădulescu, New refinements of some classical inequalities, Math. Inequal. Appl., 12 (2009), 513–518.