

GENERALIZATIONS OF SOME INEQUALITIES OF OSTROWSKI-GRÜSS TYPE

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Abstract. We provide generalizations and improvements of a variety of recent results for the Ostrowski and Simpson inequalities.

Mathematics subject classification (1991): 26D10.

Key words and phrases: Ostrowski-Grüss inequality, Simpson's rule.

REFERENCES

- [1] S. S. DRAGOMIR AND S. WANG, *An inequality of Ostrowski-Grüss type and its applications to the estimation of error bounds for some special means and for some numerical quadrature rules*, Computer Math. Appl. **33** (1997), 15–20.
- [2] I. FEDOTOV AND S. S. DRAGOMIR *An inequality of Ostrowski's type and its applications for Simpson's rule in numerical integration and for special means*, Math. Inequal. Appl. **2** (1999) 491–499.
- [3] M. MATIĆ, J. PEČARIĆ AND N. UJEVIĆ, *Improvement and further generalization of some inequalities of Ostrowski-Grüss type*, to appear in Computer Math. Appl.
- [4] D. S. MITRINOVIĆ, J. E. PEČARIĆ AND A. M. FINK, *Inequalities involving functions and their integrals and derivatives*, Kluwer Acad. Publ., Dordrecht/Boston/Lancaster/Tokyo, 1991.
- [5] C. E. M. PEARCE AND J. PEČARIĆ, *On Anastassiou's generalizations of the Ostrowski inequality and related results*, to appear in J. Comput. Anal. and Applic.