

ESTIMATIONS OF THE ERROR FOR GENERAL SIMPSON TYPE FORMULAE VIA PRE-GRÜSS INEQUALITY

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Abstract. Generalizations of estimations of general Simpson type formulae are given, by using the pre-Grüss inequality.

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REFERENCES

- [1] M. ABRAMOWITZ AND I. A. STEGUN (Eds.), *Handbook of mathematical functions with formulae, graphs and mathematical tables*, National Bureau of Standards, Applied Math. Series 55, 4th printing, Washington 1965.
- [2] I.S. BEREZIN AND N.P. ZHIDKOV, *Computing methods*, Vol. I, Pergamon Press, Oxford-London-Edinburgh-New York-Paris-Frankfurt, 1965.
- [3] L.J. DEDIĆ, M. MATIĆ, J. PEČARIĆ, *On Euler-Simpson formulae*, PanAmer. Math. J., **11**, 2 (2001), 47–64.
- [4] L.J. DEDIĆ, M. MATIĆ, J. PEČARIĆ AND A. VUKELIĆ, *Hadamard-type inequalities via some Euler-type identities- Euler bitrapezoid formulae*, Nonlinear Studies, **8**, 3 (2001), 343–372.
- [5] L.J. DEDIĆ, M. MATIĆ, J. PEČARIĆ, *On dual Euler-Simpson formulae*, Bull. Belg. Math. Soc., **8** (2001), 479–504.
- [6] I. FRANJIĆ, J. PEČARIĆ, A. VUKELIĆ, *General Euler-Simpson formulae*, Indian Journal of Mathematics, **47**, 2–3 (2005), 139–157.
- [7] J. PEČARIĆ, A. VUKELIĆ, *General dual Euler-Simpson formula*, Journal of Mathematical Inequalities **2**, 4 (2008), 511–526.
- [8] N. UJEVIĆ, *New bounds for Simpson's inequality*, Tamkang J. of Math., **33**, 2 (2002), 129–138.