

Some numerical integration methods based on interpolation polynomials

ANA MARIA ACU and DANIEL FLORIN SOFONEA

ABSTRACT.

In this paper we have considered the asymptotic expressions for remainder term of quadrature formulas of the interpolator type. We derive some corrected versions of the quadrature formulas of interpolatory type, which provide a better approximation accuracy than the original rules. A method to improve the degree of exactness of the quadrature formulas is also considered. A numerical example of the proposed method is given.

DEPARTMENT OF MATHEMATICS AND INFORMATICS
UNIVERSITY "LUCIAN BLAGA" OF SIBIU
DR. I. RAȚIU 5-7, 550012 SIBIU, ROMANIA
E-mail address: acuana77@yahoo.com
E-mail address: sofoneaflorin@yahoo.com

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Corresponding author: Ana Maria Acu; acuana77@yahoo.com