

NUMERICAL AND SYMBOLIC COMPUTATION IN MATHEMATICS AND ENGINEERING

Ana Conceição^{1,2,3}, Celestino Coelho^{1,3}, Paula Ribeiro¹, Paula Ventura Martins^{1,4}, and Susana Fernandes^{1,3}

- 1: Universidade do Algarve Campus de Gambelas, 8005-139 Faro, Portugal e-mail: {aconcei,ccoelho,pribeiro,pventura,sfer}@ualg.pt
- 2: Center for Functional Analysis, Linear Structures and Applications (CEAFEL)
- 3: Center for Studies and Development of Mathematics in Higher Education (CEDMES)
 - 4: Research Center for Tourism Sustainability and Well-being (CinTurs)

Keywords: numeric computation, symbolic computation, mathematics, engineering

Abstract. The existence of several mathematic and engineering problems motivates the use of numeric and symbolic software. This Mini-Symposium is devoted to the development and application of numerical and symbolic computation in Mathematic and Engineering. It is intended to exchange experiences and ideas on the use of computational tools in research and education.

This multidisciplinary Mini-Symposium will cover, but is not limited to, the following topics:

- domain specific languages
- educational software tools
- engineering modelling
- quaternions
- \bullet network simulation
- operator theory
- optimization
- signal processing