



EMERGING TRENDS IN APPLIED MATHEMATICS AND MECHANICS

Mathematical Analysis of Unilateral Contact Problems (dedicated to the memory of M. Schatzman and J.J.Telega)

Organized by

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Unilateral contact problems can not be avoided in mechanical systems: they create noise with considerable nuisance for users and also untimely wear or even damage to the system. A mathematical study of these phenomena is therefore crucial to predict them efficiently and to take them into account in the design of structures.

We intend that the minisymposium will provide a forum for exchange of ideas and the presentations will provide the participants with the state of the art in the field. The topics include the mathematical aspects of modeling, existence, regularity, approximation and control for contact problems with or without friction for deformable elastic, visco-elastic, elastico-plastic or thermoelastic bodies as well as for discrete dynamical systems.

Due to their pioneering contributions in this field, this mini-symposium is dedicated to the memory of Michelle Schatzman (8/12/1949-20/08/2010) and Józef Joachim Telega (24/03/1943-28/01/2005).