A posteriori error estimation and mesh adaptivity

Chairmen:

1. Prof. Sergey Korotov. Basque Center for Applied Mathematics,
Bilbao, Spain
http://www.bcamath.org/en/people/korotov
korotov@bcamath.org

2. Prof. Michal Krizek. Institute of Mathematics, Academy of
Science of the Czech Republic, Prague.
http://www.math.cas.cz/~krizek/
krizek@math.cas.cz

Abstract

The session will be devoted to the works on verification of accuracy of approximate solutions obtained in computer simulations. This problem is strongly related to so-called a posteriori error estimates, giving computable

bounds for computational errors and detecting zones in the solution domain

where such errors are too large and certain mesh refinements should be performed. Special emphasize will be devoted to mesh adaptivity techniques in 3D case.