

Foreword

This volume contains articles resulting from research projects initiated during the CEMRACS 2007 entitled *Pre and Post Processing in Scientific Computing*.

The CEMRACS is an annual summer school initiated in 1996 by Frédéric Coquel and Yvon Maday and promoted by the SMAI (French Society of Applied and Industrial Mathematics). Its goal is to create and reinforce interdisciplinary collaborations between applied mathematicians and scientists of other fields from academia and industry.

The CEMRACS 2007 took place from the 23rd of July to the 31st of August 2007 at the CIRM (Centre International de Rencontres Mathématiques, Marseille, France). The first week (July 23, 27) was devoted to lectures on general interest topics: innovative techniques for numerical simulations, new trends in mesh generation, error estimation, mesh adaptation and visualization techniques. During the other five weeks (August 1, 31), the participants worked in teams on 13 research projects proposed by industrial and academic partners. Each team was composed of young researchers assisted by one or more senior researchers.

The CEMRACS 2007 has been attended by about 105 researchers from 11 different citizenships, including mathematicians, computer scientists, research engineers.

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