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Preface

The 2nd International Conference “From Scientific Computing to Computational Engineering” – 2nd IC SCCE, was held in Athens from July 5 to July 8, 2006. The Conference was organized by the Laboratory of Fluid Mechanics and Energy (LFME) of the University of Patras, Patras, Greece. Chairman and Organizer of the Conference was Professor Demos T. Tsahalis of the Chemical Engineering Department of the University of Patras and Director of LFME.

The aim of the 2nd IC-SCCE was the promotion and the dissemination of the scientific knowledge in Computational Mechanics. Furthermore, the Conference was a great opportunity for scientists from various scientific areas to get together since the papers which were presented at the Conference covered the whole spectrum of Computational Mechanics.

More than 280 Participants from 27 countries and Greece attended the 2nd IC-SCCE and presented more than 205 papers that had been organized in 39 Parallel Sessions. Contributing papers were classified in various thematic areas, such as:

- Acoustics/Vibration Applications
- Advanced Simulation & Identification Algorithms in Civil Engineering Problems
- Application Mathematics/Numerical Analysis
- Applications of Artificial Neural Networks
- Biomechanics & Structural optimization Applications
- Biomedicine & Biomechanics
- CFD: Mathematical Modeling and Multidisciplinary Applications
- Composite Materials & Structures
- Computational Fluid Dynamics
- Computational Mathematics & Applications
- Droplet/Jet Fluid Mechanics Analysis
- Dynamical Systems & Celestial Mechanics
- Efficient Analytical & Numerical Methods for Applied Physical Problems
- Engineering Applications
- Flow Simulation for Engineering Systems Optimization
- Fluid Mechanics/Heat Transfer
- Gear Mechanics
- Information Technologies
- Large Scale Numerical & Experimental Fluid Mechanics
- Medical Image Analysis & Applications
- Medical Imaging
- Optimization & Computational Methods
- Optimization Applications in Process Systems
- Optimization Methods & applications
- Optimization with Genetic Algorithms
- Project Scheduling & Resourcing
- Robotics
- Scheduling & Control Optimization
- Signal/Image Processing
- Static & Dynamic Behaviour of Structures

The Editor

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Professor Demos T Tsahalīs
Chairman and Organizer of the 2nd IC-SCCE

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“From Scientific Computing to Computational Engineering**

2nd IC-SCCE

held in Athens, Greece, from July 5th to July 8th, 2006

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