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Preface of the “1st symposium on multiscale, multiphysics and turbulent flow simulations”

Serdar Çelebi and Mine Çağlar

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Preface of the “1st Symposium on Multiscale, Multiphysics and Turbulent Flow Simulations”

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The aim of this Symposium is to cover research areas related to multiscale, multiphysics and turbulent flow simulations and create a collaborative environment for the leading scientists and research groups to share their experiences in fundamental and applied aspects. The core objective is to have a thorough understanding of these fields by giving an in-depth analysis of the simulation and modeling approaches to demonstrate the recent novel methods and the theories.

Emphasis is not given only on the theoretical aspects, but also on the implementation of novel numerical methods and algorithms used in large scale simulations of multiscale, multiphysics and turbulent flows. All application areas ranging from fluid dynamics and biomedical flows to structural mechanics and mechnomechanics are welcome.

M. Serdar Çelebi

EDUCATION

- Texas A&M University Ph.D. June, 1997 Computational Hydrodynamics College Station, Texas
- Michigan University P.D. (N.A.) Jan., 1995 Computational Hydrodynamics Ann Arbor, Michigan
- Istanbul Technical University M.Sc. Mar., 1990 Hydrodynamics Istanbul, Turkey
- Istanbul Technical University B.Sc. May, 1987 Naval Architecture and Ocean Eng. Istanbul, Turkey

RESEARCH INTERESTS

Computational Fluid Dynamics, multi-phase flows, multi-physics simulations, biomechanics, Turbulence, bio-flows, multi-scale medical mechanics, parallel numerical algorithms, computational linear algebra.

EXPERIENCE

Professor, Istanbul Technical University, Informatics Institute, 2004 – Present,
Associate Prof., Istanbul Technical University, Naval Arch. and Ocean Eng., 1998 – 2004,
Assistant Prof., Istanbul Technical University, Naval Arch. and Ocean Eng., Jan. 1998 - Dec. 1998,
Research Assistant, Texas A&M University, Civil Engineering, Aug. 1995 – Dec. 1997,
Research Assistant, University of Michigan, Naval Arch. and Ocean Eng., Oct. 1994 – May. 1995,
Research Assistant, Istanbul Technical University, Naval Arch. and Ocean Eng., Jun.1988–May 1992.

Mine Çağlar

EDUCATION

- Princeton University Ph.D. June, 1997 Statistics & Operations Research Princeton, NJ
- Bilkent University M.Sc. Mar., 1991 Industrial Engineering Ankara, Turkey
- Middle East Tech. Univ. B.Sc. May, 1989 Industrial Engineering Ankara, Turkey

RESEARCH INTERESTS

Probability theory and stochastic processes; in particular, Markov processes, fractional Brownian motion, Levy processes, and constructions with Poisson random measures.

EXPERIENCE

Associate Professor, Koç University, College of Sciences, 2006-Present

Assistant Professor, Koç University, College of Sciences, 1999-2006

Research Scientist, Bellcore, Network Design & Traffic Research Group, 1997-1998