Technical University of Denmark

DANISH CENTER FOR APPLIED MATHEMATICS AND MECHANICS

One Week Summer School on

Advanced Topics in Numerical and Computational Bifurcation Analysis

13. - 19. June 2011 • Department of Mathematics • DTU • Denmark

This summer school will focus on numerical algorithms for bifurcation analysis of conservative, symmetric and hybrid dynamical systems. Of particular interest will be mathematical techniques for constructing sets of well-posed equations for problems with certain degeneracies and their practical implementation in existing software packages. Specific topics include the continuation of periodic orbits in conservative systems with first integrals, Hamiltonian relative periodic orbits, hybrid periodic orbits, and stable and unstable manifolds of periodic orbits of saddle-type. The key lecturers for this summer school are:

Eusebius Doedel
Concordia University
Montreal
Canada

Claudia Wulff
University of Surrey
Guildford
UK

Harry Dankowicz
University of Illinois
Urbana-Champaign
USA

This course is offered as part of the activities of the DCAMM International Graduate Research School, see www.dcamm.dk. There is no registration fee for students enrolled at universities and public research institutions. For all other participants a registration fee applies. Applicants should **submit** their **registration on-line no later than May 13th, 2011**. We can offer a limited number of scholarships in order to facilitate participation. Please visit the summer school web page for terms of eligibility and application.

Search for 'ANBA DTU' or go to

http://www.mat.dtu.dk/people/F.Schilder/ANBA

Organiser: Frank Schilder and Jens Starke, DTU Mathematics