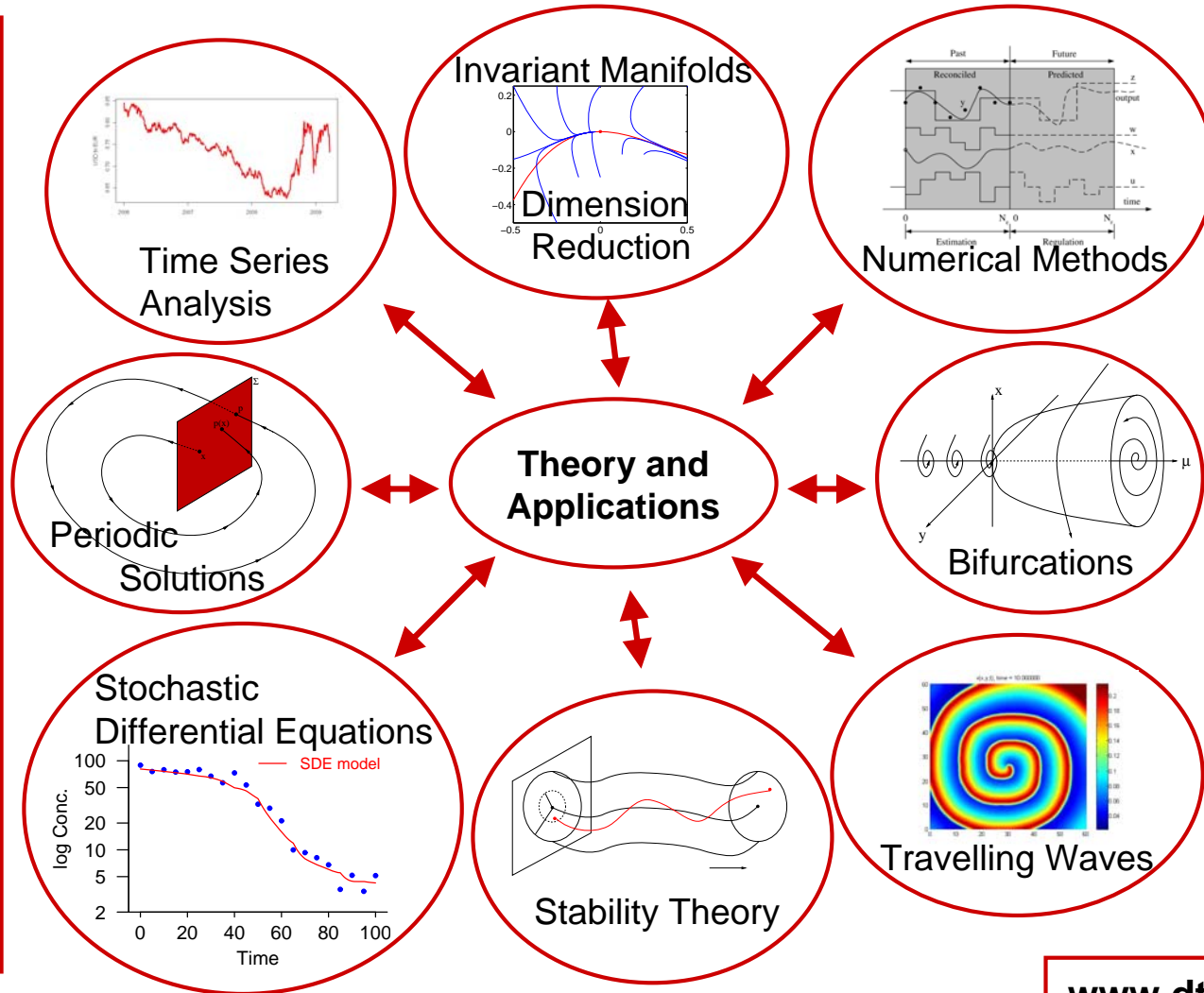


# Mathematical Modelling, Nonlinear Dynamics, Stochastic and Complex Systems

Technical University of Denmark  
Kgs. Lyngby (North of Copenhagen), Denmark

One week  
Summer school  
at bachelor level  
22 – 28 August 2010



This summer school will give a unique introduction to modelling with differential equations combined with data analysis. This includes both deterministic dynamical systems theory as well as stochastic systems. Lectures will cover mathematical techniques for analysing complex systems from various fields in science and engineering. All theoretical parts of the course will be accompanied with hands-on exercises using real life examples ranging from mechanics over medicine to economy.

**Lecturers:**  
Lasse E. Christiansen (organizer)  
Poul Hjorth  
John Bagterp Jørgensen  
Henrik Madsen  
Frank Schilder  
Jens Starke (main organizer)  
Mads Peter Sørensen

**Deadline for application:**  
15th of June 2010.

The course is free of charge.

The summerschool is sponsored jointly by the departments of Mathematics and Informatics and Mathematical Modelling.

[www.dtu.dk/mmcmaster/summerschool](http://www.dtu.dk/mmcmaster/summerschool)