EU Regional School 2019

in Computational Engineering Science
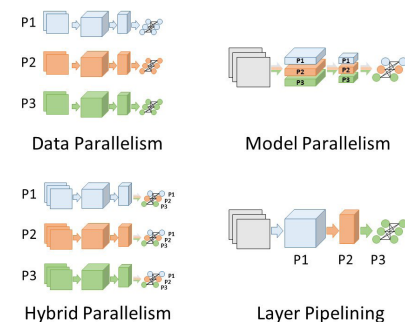## Part 1, Course 1-4, January - June

COURSE 1

MPI Remote Memory Access Programming and Scientific Benchmarking of Parallel Codes

January 8, 2019
9:00 am - 10:30 am & 11:00 am - 12:30 pm
Prof. Dr. Torsten Hoefler
Scalable Parallel Computing Lab & Computer Science Department
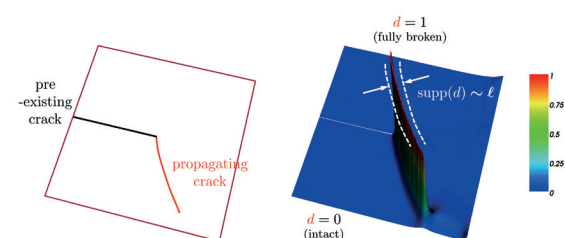ETH Zürich, Switzerland

Data Parallelism   Model Parallelism

Hybrid Parallelism   Layer Pipelining

COURSE 2

Phase-Field Modeling and Computation of Fracture

January 29, 2019
9:00 am - 10:30 am & 11:00 am - 12:30 pm
Prof. Dr. Laura De Lorenzis
Institute of Applied Mechanics
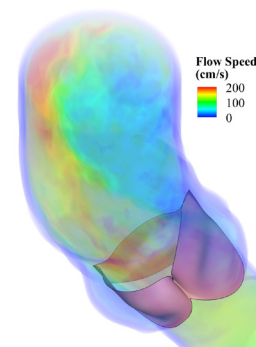Technical University of Braunschweig, Germany

COURSE 3

Isogeometric Analysis: An Introduction and Some Recent Advances

February 11, 2019
1:00 pm - 2:30 pm & 3:00 pm - 4:30 pm
Prof. Alessandro Reali, Ph.D.
Department of Civil Engineering and Architecture - Structures and Materials Section
University of Pavia, Italy

COURSE 4

From Hype to Reality: Data Science Enabling Innovation in Biomedicine

March 19, 2019
1:00 pm - 2:30 pm & 3:00 pm - 4:30 pm
Prof. Dr. Holger Fröhlich
Bonn-Aachen International Center for Information Technology (B-IT)
University of Bonn, Germany

The classes take place in Aachen, Germany at AICES Graduate School, RWTH Aachen Schinkelstr. 2 (Rogowski Building), seminar room 115, 1st floor
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