

MARS

Models, Algorithms, Computers and Systems

MARS Series of Talks
WS 2018/19

A cooperation with SMC

Department of Mathematics
Department of Computer Science

University of Salzburg



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MARS – Models, Algorithms, Computers and Systems

Modern high tech research in science and technology requires an interdisciplinary approach. This applies particularly to wide areas of the methodological sciences mathematics and computer science, where, typically, several aspects of closely related fields of research are considered. These start with a mathematical model, continue with algorithmic problems, and finally cover aspects of the implementation on computers or high performance computing environments and therefore also issues related to the efficiency of computer systems.

MARS is a doctoral programme at the Doctorate School PLUS (DSP Programme), which is organized by the departments of mathematics and computer science of the University of Salzburg. Its objective is to educate doctoral students in the research fields models, algorithms, computers, and systems and also to achieve new insights and research findings especially with regard to the inter-dependency of these fields of research. The focus will be on important topics relevant for the Salzburg research site. MARS fields of research form a cohesive and closely linked line of research and cover a wide spectrum of scientific interests.

Joint activities constitute the structured doctoral program in MARS. These include seminars with external guest speakers, one day workshops with external guests and multi-day retreats away from the university, as well as summer schools on the topics of MARS.

Program

Thursday, 15:00-15:45

Lecture room 414, 1st floor

Solving polynomial-exponential equations

David Masser, University of Basel

December 6, 2018

Simulation of nonlinear bending phenomena: convergence, self-avoidance and applications

Sören Bartels, University of Freiburg

December 13, 2018

Smooth and non-smooth aspects of Ricci curvature lower bounds

Andrea Mondino, University of Warwick

January 17, 2019

MARS Series of Talks

The MARS Series of Talks is organized in cooperation with the Salzburg Mathematics Colloquium and aims to broaden the view on several aspects of MARS. The Salzburg Mathematics Colloquium is organized by the Department of Mathematics. The talks listed above are associated to the topics of MARS and are financially supported by the DSP MARS.

For further information, see uni-salzburg.at/index.php?id=62539.