



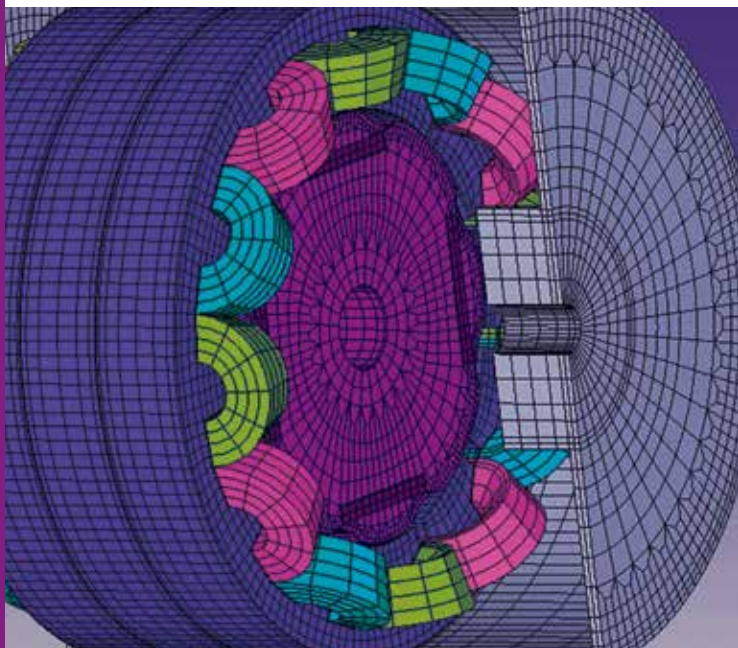
**KoMSO CHALLENGE WORKSHOP**

# **Reduced-Order Modeling for Simulation and Optimization: Powerful algorithms as key enablers for scientific computing**

**NOVEMBER 17 & 18, 2016**

**Robert Bosch GmbH / Corporate Research  
Robert-Bosch-Campus 1, 71272 Renningen**

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## KoMSO CHALLENGE WORKSHOP

# Reduced-Order Modeling for Simulation and Optimization: Powerful algorithms as key enablers for scientific computing

Growing demand for numerical solutions in scientific computing (modeling, simulation, data analysis, optimization problems in many application fields) requires ever higher algorithmic and computational performance.

It has been shown in many cases that the advancement of mathematical algorithms has increased the arithmetic performance clearly more than the improvements of computer hardware alone.

The KoMSO workshop puts particular emphasis on the advancement of efficient numerical procedures. Presentations of new out-of-the-box algorithmic solutions for scientific computing are invited – in particular for reduced-order MSO.

It is the purpose of this workshop to bring together the creators and developers of new, optimal fast mathematical algorithms and their potential industrial users. Requirements, application fields, needs, and benefits of effort-saving fast algorithms will be presented.

Confirmed speakers include representatives of Robert Bosch GmbH, BASF SE, Paderborn University, TU Berlin, Ulm University, University of Hamburg, and University of Stuttgart.

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