



Ansys

WOOST

CONFERENCE

Optimize and Orchestrate your
Virtual Product Development

/ AGENDA

18th Weimar
Optimization and
Stochastic Days 2021

Virtual Conference // June 17 – 18, 2021

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THURSDAY, JUNE 17

/ PLENARY SESSION 1

Simulation Process Automation and Orchestration

10:30 am – 10:35 am

(All time = Central European Time (CET))

Introduction

Johannes Will (Ansys)

10:35 am – 11:10 am (CET)

Keynote | Practical Application of a Simulation Process Management System for Multi-Objective Optimization of Power Electronics

Daniel Krätschmer, Frederike Lörke (Robert Bosch GmbH)

11:10 am – 11:35 am (CET)

Publish Engineering Workflows as Webapps for Everyone

Daniel Soukup (CADFEM GmbH)

11:35 am – 12:00 pm (CET)

The Application and Benefits of Molding Process Optimization at Kärcher using Moldex3D

Florian Seibold (Alfred Kärcher SE & Co KG)

/ PLENARY SESSION 2

Platform R&D Update

12:50 pm – 1:15 pm (CET)

Ansys Platform Strategy

Sanjay Angadi (Ansys)

1:15 pm – 1:40 pm (CET)

Development of optiSLang Product Line

Johannes Will (Ansys)

1:40 pm – 2:05 pm (CET)

Recent method developments optiSLang product line

Thomas Most (Ansys)

2:05 pm – 2:30 pm (CET)

Recent Developments for Field metamodeling with SoS

Sebastian Wolff (Ansys)

2:30 pm – 3:00 pm (CET)

Roundtable with Ansys Platform Development team

/ PLENARY SESSION 3

Metamodeling

3:00 pm – 3:25 pm (CET)

A Four-dimensional Reduced Order Model Approach for Life Prediction of Hot Operation Components

Aditya Dubey (Siemens India)

3:25 pm – 3:50 pm (CET)

Metamodels generated from thermo-mechanical simulation for the design of a test setup for microelectronics packages

Martin Niessner, Infineon Technologies AG

3:50 pm – 4:15 pm (CET)

Reduced Order Modeling with Mechanical and optiSLang

Johannes Einzinger (Ansys)

4:15 pm – 4:40 pm (CET)

Modeling of a window lift drive and a control edge with Neural Concept Shape

Roland Schirrmacher (Robert Bosch GmbH)

/ PLENARY SESSION 4

Design Optimization I

5:00 pm – 5:25 pm (CET)

Multidisciplinary Optimization of Check Valve

Carsten Molhede Thomson (Danfoss A/S)

5:25 pm – 5:50 pm (CET)

A novel global optimization approach using HFSS analytical derivatives

Peter Krenz (Ansys)

5:50 pm – 6:15 pm (CET)

Optimization of Inductive Magnetics on Silicon Devices with optiSLang

Dragan Dinulovic (Würth Elektronik eiSos GmbH & Co. KG)

6:15 pm – 6:40 pm (CET)

E-machine Optimization considering Electric Drive Unit (EDU) System Requirements

Jonathan Godbehere, Nicolas Riviere (MDL Limited)

FRIDAY, JUNE 18

/ SESSION 5A

Design Optimization II

10:20 am – 10:45 am (CET)

Virtual product optimization for laser material processing systems

Dominik Kühn (LightTrans)

10:45 am – 11:10 am (CET)

Design understanding with DOE as part of the virtual optics development process

Sabrina Niemeyer (Ansys)

11:10 am – 11:35 am (CET)

How Ansys SPEOS and Ansys optiSLang Solve Complex HUD Design

Stefan Thöne (Ansys)

11:35 am – 12:00 pm (CET)

OptiSLang Workflow for HAMR System Modeling

Cheng-Ming Chow, Stephanie Hernandez (Seagate Research)

/ SESSION 5B

Reliability Analysis & Calibration

10:20 am – 10:45 am (CET)

PROBABilistic computational intelLIGENCE using STOCHOS inside optiSLang

Can Bogoclu (Probaligence GmbH)

10:45 am – 11:10 am (CET)

Reliability Analysis of a Diplexer with Improved Quality for the Prediction of Failure Probabilities

Philippe Leduc (STMicroelectronics)

11:10 am – 11:35 am (CET)

On the simplification of thermomechanical fatigue testing

Marcus Lehmann (Ariane Group)

11:35 am – 12:00 pm (CET)

Scenario-based testing in simulation: Sensitivity analysis of traffic modeling and its influence on the exposed failure regions

Johannes Plaum (Daimler Truck AG)

/ WORKSHOPS

1:00 pm – 2:30 pm (CET)

(The individual workshops will take place in parallel.)

Democratization of simulation workflows and processes
David Schneider (Ansys)

Robust Design Optimization of electric motors
Roland Niemeier & Nicolas Riviere (Motor Design Limited)

Optimization of optical and opto-mechanical systems
Tino Dannenberg, Sabrina Niemeyer (Ansys)

Optimization of antenna design
Ralf Lampert & Peter Krenz (Ansys)

Model calibration and Robust Design Optimization for Additive Manufacturing
Roger Schlegel & Keno Kruse (CADFEM GmbH)

/ PLENARY SESSION 6

Design Optimization III

3:00 pm – 3:25 pm (CET)

Electro-optic Design Optimization and Analysis from Micrometers to Kilometers

Peter Krenz (Ansys)

3:25 pm – 3:50 pm (CET)

Optimization of idealized, parametrized simulation models for modal analysis using optimization algorithms and validating the optimum on a reference model

Shashank Hebbar (Siemens AG)

3:50 pm – 4:15 pm (CET)

Topology Optimization Result Interpretation using Ansys optiSLang CATIA-Integration

Jessica Tamasi (Rheinmetall)

4:15 pm – 4:45 pm (CET)

Parametric geometry optimization of solids processing equipments

Rakulan Sivanesapillai (Bayer AG)

5:15 pm – 5:45 pm (CET)

Roundtable with Platform Field Engineering and Sales