

*Second Announcement – Call for Papers*



**KLAIM 2021**

Kaiserslautern Applied and  
Industrial Mathematics Days

Dear Colleagues,  
the first

**Kaiserslautern Applied and Industrial Mathematics Days – KLAIM**  
*with Focus on the Modeling, Simulation and Optimization of Digital Twins*

will take place in Kaiserslautern, Germany, from October 11-13, 2021.

The purpose of this workshop is to provide a forum for applied mathematicians from academia, research labs and industry to exchange ideas and to showcase recent results. The focus of this first edition of KLAIM will be placed on the role of applied mathematics in the development of digital twins.

Hosted jointly by the Fraunhofer-Institute for Industrial Mathematics and the Department of Mathematics at the TU Kaiserslautern, the event is planned on-site. Provisions for a hybrid format will be made to bring together “roomies and zoomies” if the ongoing COVID-19 pandemic necessitates this.

Plenary speakers: Annalisa Buffa (EPF Lausanne), Olivier Brüls (Liège Université), Dimitris Bertsimas (MIT Boston), Dick den Hertog (Tilburg University), Mario Ohlberger (Universität Münster).

The program will be structured along the three tracks

1. Hybrid System Simulation - Classic Modeling and Control Meet Artificial Intelligence  
with track plenaries given by Martin Arnold (Martin-Luther-Universität Halle-Wittenberg), Matthias Gerdts (Universität BW München), Claudia Schillings (Universität Mannheim).  
This track is organized in collaboration with the ECMI Special Interest Group Math for the Digital Factory.
2. Multiscale Methods and Model Order Reduction  
with track plenaries given by Francisco Chinesta (ENSAM Institute of Technology Paris), Nicole Marheineke (Universität Trier)
3. Integration of Optimization and Data Science  
with track plenary given by Alexander Martin (Friedrich-Alexander-Universität Erlangen-Nürnberg)

Registration is now open. We invite prospective speakers to submit a one-page abstract to one of the above three tracks. A LaTeX template can be found at the homepage below, as well as the link for the submission procedure.

The conference fee is 250,- EUR.

Deadlines:

Submission of abstracts: July 30<sup>th</sup>, 2021 (strict deadline)

Notification of acceptance: August 20<sup>th</sup>, 2021

Registration and payment of conference fee: September 10<sup>th</sup>, 2021

Find out more at: [www.itwm.fraunhofer.de/klaim](http://www.itwm.fraunhofer.de/klaim)

For questions write to us at: [KLAIM@mathematik.uni-kl.de](mailto:KLAIM@mathematik.uni-kl.de)

We are looking forward to seeing you in Kaiserslautern.

On behalf of the local organizing committee

*Anita Schöbel and Bernd Simeon*

Scientific Committee:

Johan Carlson (Chalmers Göteborg), Klaus Dreßler (ITWM), Simone Göttlich (U Mannheim), Dietmar Hömberg (WIAS Berlin), Axel Klar (TUK), Sven Krumke (TUK), Karl-Heinz Küfer (ITWM), Alexander Martin (FAU Erlangen-Nürnberg), Anita Schöbel (TUK & ITWM), Bernd Simeon (TUK), Konrad Steiner (ITWM), Stefan Volkwein (U Konstanz)

