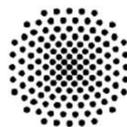


96TH



University of Stuttgart

ANNUAL MEETING

of the International Association of Applied
Mathematics and Mechanics

March 16th – 20th, 2026
Stuttgart (Germany)

General Information & Daily Program



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GESELLSCHAFT für
ANGEWANDTE MATHEMATIK und MECHANIK e.V.
INTERNATIONAL ASSOCIATION of APPLIED MATHEMATICS and MECHANICS

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University of Stuttgart
Germany

96TH ANNUAL MEETING

of the International Association of
Applied Mathematics and Mechanics

March 16th – 20th, 2026
Stuttgart (Germany)

Invitation

The International Association of Applied Mathematics and Mechanics (GAMM e.V.) cordially invites you to its 96th Annual Meeting from March 16th-20th, 2026. On behalf of the DGLR and the GAMM we also invite you to the 68th Ludwig Prandtl memorial lecture.

About 1000 mathematicians, engineers, and scientists from Germany, Europe, and the rest of the world will participate in this event.

The scientific program contains:

- 8 plenary lectures,
- the Ludwig Prandtl memorial lecture,
- the Richard von Mises lectures,
- 5 minisymposia,
- 5 young researchers' minisymposia,
- 28 parallel sections with several hundred presentations,
- presentation of GAMM-related DFG programs, and
- poster sessions.

We invite all GAMM members to the regular General Assembly of the GAMM on Wednesday, March 18th, 2026 at 11:30am.



Kerstin Weinberg
President



Michael Kaliske
Secretary

**Welcome by the
 Local Organizers**

Dear participants,

we are delighted to welcome you to the 96th Annual Meeting of GAMM. It is a great pleasure to bring the GAMM community together in Stuttgart and to provide a forum for scientific exchange across disciplines.

We sincerely thank the GAMM Board, in particular the president and vice-president, the program committee, and the GAMM office for their extensive support. Our gratitude also goes to the university administration, our dedicated students, the DFG priority program organizers, the minisymposium and section organizers, GAMM juniors, and the organizers of the young researchers' minisymposia. We warmly thank the plenary speakers for accepting our invitations, the city of Stuttgart for its hospitality, and all participants for contributing their presentations and ideas. Further thanks go to our supporting institutes ISD, IMSB, IANS, IBB, and the Stuttgart Center for Simulation Technology (SimTech), as well as to additional supporters and sponsors, including DFG, DGLR, and our publishing partner.

We wish you an enjoyable stay in Stuttgart and hope for lively discussions and a fruitful scientific exchange throughout the conference.



Tim Ricken



Oliver Röhrle



Bernard Haasdonk



Karsten Keller



Andrea Barth



Manfred Bischoff



Rebecca Katzer



Dimitra Lampropoulou



Jan Liedmann



Benjamin Stamm

Venue	<p>The GAMM Annual Meeting 2026 is hosted by the University of Stuttgart. It will take place from March 16th to 20th, 2026.</p> <p>On Monday, March 16th, the Conference will be opened in the Kollegengebäude KII in lecture hall M 17.01 and via live broadcast in the lecture hall M 17.02. All scientific events between Monday and Friday will take place on the central campus in the connected buildings KI and KII within short walking distance.</p> <p>The welcome reception and the conference dinner will take place at culturally and historically important locations and are located within a short walking distance or easily reachable by public transport.</p> <p>Stuttgart is the capital of the German state Baden-Württemberg. It is a city of innovation and quality of life, renowned for world-class engineering, world-famous cars, green spaces, hillside vineyards, cultural treasures, historic landmarks, and the flavors of Swabian cuisine.</p>
Chairpersons	<p>Tim Ricken (Chair) Oliver Röhrle (Co-Chair)</p>
Local organizing committee	<p>Andrea Barth Manfred Bischoff Bernard Haasdonk Karsten Keller Rebecca Katzer Dimitra Lampropoulou Jan Liedmann Benjamin Stamm</p>
Program committee	<p>Andrea Barth, Stuttgart Giuseppe Capobianco, Erlangen-Nürnberg Alexey Chernov, Oldenburg Laura De Lorenzis, Zürich Stefanie Elgeti, Wien Timm Faulwasser, Hamburg Michael Kaliske, Dresden Benjamin Klusemann, Lüneburg Ralf Müller, Kaiserslautern Björn Kiefer, Freiberg Stefan Neukamm, Dresden Malte Peter, Augsburg Tim Ricken, Stuttgart Oliver Röhrle, Stuttgart Claudia Schillings, Berlin Markus Schmidtchen, Dresden Jörg Schröder, Essen Holger Steeb, Stuttgart Marita Thomas, Berlin Karsten Urban, Ulm Andrea Walther, Berlin Thomas Wick, Hannover</p>

SCIENTIFIC PROGRAM

	Monday March 16 th	Tuesday March 17 th	Wednesday March 18 th	Thursday March 19 th	Friday March 20 th		
08:30			Contributed Sessions				
09:00		Contributed Sessions	Coffee Break Poster Session	Contributed Sessions	Contributed Sessions		
09:30							
10:00			R. v. Mises Lectures				
10:30	Registration	Coffee Break		Coffee Break	Coffee Break		
11:00	Pre-GAMM "How to Con- ference"	Plenary 2	GAMM General As- sembly	Plenary 4	Plenary 7		
11:30							
12:00			Plenary 3		Plenary 5	Plenary 8	
12:30							
13:00	Opening	Lunch / YAMM	Lunch / NIAM / DEKOMECH	Lunch	Closing		
13:30							
14:00	Prandtl Lecture	Minisymposia + DFG PP	Contributed Sessions	Contributed Sessions			
14:30							
15:00	Plenary 1						
15:30							
16:00	Coffee Break	Coffee Break Poster Session	Coffee Break Poster Session	Coffee Break			
16:30	Young Researchers' Minisymposia	Contributed Sessions	Contributed Sessions	Plenary 6			
17:00							
17:30						Contributed Sessions	
18:00							
18:30							
19:00	Welcome Reception	Conference Dinner	Women* in GAMM	Public Lecture			
19:30							
20:00							
20:30							
...							
23:00							

Plenary Lectures – Mathematics

Per-Olof Persson
(UC Berkeley, USA)



Thu. 19.3.2026, 16:30 – 17:30

The Solver Bottleneck: Past, Present, and Future of Scalable Solvers for High-Order Methods

Chaired by Benjamin Stamm (U Stuttgart)

Noémi Petra
(UC Merced, USA)



Thu. 19.3.2026, 11:00 – 12:00

Large-Scale Bayesian Inversion with Complex Models

Chaired by Andrea Barth (U Stuttgart)

Michael Ulbrich
(TU Munich, Germany)



Fri. 20.3.2026, 11:00 – 12:00

When PDE-Constrained Optimization Becomes Non-Smooth — and How We Treat It

Chaired by Bernadette Hahn (U Stuttgart)

Ewelina Zatorska
(University of Warwick, UK)



Tue. 17.3.2026, 12:00 – 13:00

Analysis of the Multi-Dimensional Generalization of the Aw-Rascle Model

Chaired by Christina Lienstromberg (U Stuttgart)

Plenary Lectures - Mechanics

Daniel Balzani
 (Univ. of Bochum, Germany)



Tue. 17.3.2026, 11:00 – 12:00

Modeling Damage with Nonlocal Approaches for Mesh-Objectivity — Time to Relax?

Chaired by Jörg Schröder (U Duisburg-Essen)

Eleni Chatzi
 (ETH Zurich, Switzerland)



Mon. 16.3.2026, 15:00 – 16:00

From Models to Twins: Parametric Reduction for Adaptive Intelligence

Chaired by Holger Steeb (U Stuttgart)

David Nordsletten
 (University of Michigan, USA)



Thu. 19.3.2026, 12:00 – 13:00

The Power that Binds Us: Computational Biomechanics in the Heart

Chaired by Oliver Röhrle (U Stuttgart)

Katrin Schulz
 (KIT, Germany)



Fri. 20.3.2026, 12:00 – 13:00

Digital Twins in Materials Mechanics: From Descriptive to Predictive Models

Chaired by Manfred Bischoff (U Stuttgart)

Ludwig Prandtl Memorial Lecture

Detlef Lohse

Max Planck Center Twente
for Complex Fluid Dynamics
University of Twente



Mon. 16.3.2026, 14:00 – 15:00

Transition to the ultimate regime in Rayleigh-Bénard turbulence and other wall-bounded turbulent flows

Laudator: Hans Hornung (Caltech, Pasadena, USA)

In this talk I will reconcile the various experimental observations for large Rayleigh number Rayleigh-Bénard (RB) turbulence. In this so-called ultimate turbulence regime, the Nusselt number (the dimensionless heat flux) has a steeper dependence on the Rayleigh number (the dimensionless temperature difference between top and bottom plate) than $Nu \sim Ra^{1/3}$. Here the analogy between RB flow (Fig. 1a-c) and parallel flow along a flat plate (Fig. 1d-f) is illuminating. In turbulent RB convection, the core part of the flow is always turbulent (a, b), while the kinetic boundary layers (BLs) can vary from scaling-wise laminar Prandtl-Blasius type boundary layer (a, bluish) to fully turbulent Prandtl-von Karman type boundary layer (b, red-dish). These two different cases correspond to two distinct dependences of Nu vs. Ra , illustrated in (c) with, respectively, the blue and red lines. Analogously to RB flow, parallel flow along a flat plate (d-f) undergoes a transition between laminar (d) and turbulent (e) boundary layers that have different dependences of the skin friction coefficient C_f on the Reynolds number Re , which are sketched in (f) with the blue and red lines, respectively. There is a similar analogy between RB flow and pipe and channel flows and Taylor-Couette flow.

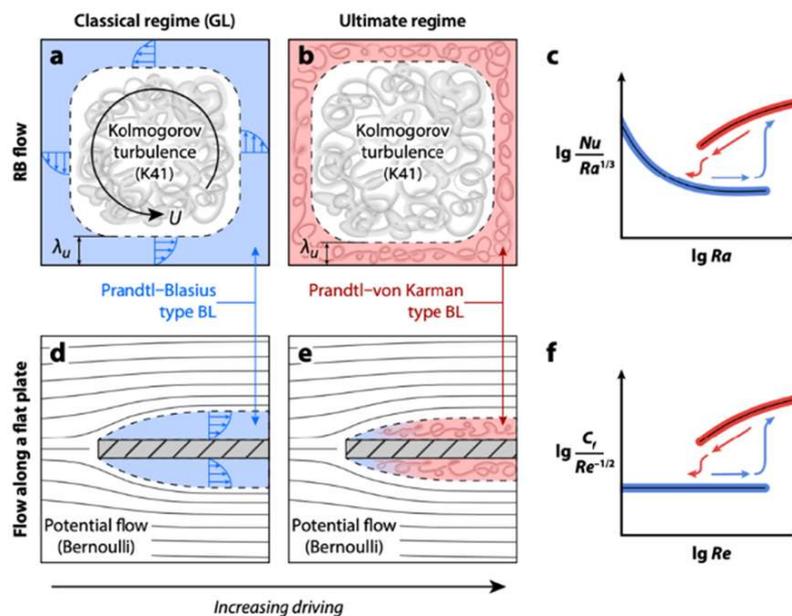


Fig. 1: Analogy between RB flow (a-c) and parallel flow along a flat plate (d-f).

References: Detlef Lohse & Olga Shishkina, *Physics Today* 76 (11), 26-32 (2023); *Rev. Mod. Phys.* 96, 035001 (2024)

Special Lectures

Richard von Mises Lectures

RvM Award 2025:

Jane Bae
Caltech, Pasadena, USA

Wed. 18.3.2026, 10:00 – 11:30

Nonlinear interactions of near-wall turbulence

Laudator: Hans Hornung (Caltech, Pasadena, USA)

RvM Award 2026:

Karl A. Kalina
ISM, TU Dresden

Material Modeling with Neural Networks: Concepts for Enforcing Physics by Construction

Laudator: Markus Kästner (TU Dresden)

Andrea Thomann
INRIA Strasbourg, France

Numerical methods for hyperbolic multi-scale systems of continuum mechanics

Laudator: Michael Dumbser (U Trento, Italy)

Public Lecture (presented in German)

Achim Menges

Institute for Computational Design and Construction (ICD)

Cluster of Excellence IntCDC

University of Stuttgart



Thu. 19.3.2026, 19:00 – 20:00

Integratives computerbasiertes Planen und Bauen

Digitale Technologien bieten neue Lösungsansätze für die vielfältigen Herausforderungen des Bauens. Das Ziel des Exzellenzclusters „Integratives computerbasiertes Planen und Bauen für die Architektur“ der Universität Stuttgart ist es, das volle Potenzial digitaler Technologien zu nutzen und das Planen und Bauen in einem integrativen und interdisziplinären Ansatz neu zu denken. Durch eine systematische, ganzheitliche und wechselseitig rückgekoppelte Entwicklung von digitalen Planungsmethoden, robotischen Baufertigungsprozessen und zukunftsfähigen Bausystemen werden wegweisende Innovationen für das Bauschaffen ermöglicht. Der Vortrag zeigt anhand ausgewählter Forschungsarbeiten und Demonstrator-Bauwerke des Exzellenzclusters, wie dessen methodische Entwicklungen und wissenschaftliche Erkenntnisse Lösungswege für die vielschichtigen ökologischen, ökonomischen und sozialen Herausforderungen des Bauens aufzeigen und zu signifikanten Innovationen führen können.

Chaired by Manfred Bischoff (U Stuttgart)

Minisymposia

1 Large-Scale Bayesian Inference with a Machine Learning Twist

Organizers: Jana de Wiljes (TU Ilmenau)
Lassi Roininen (LUT University)

2 Dynamics out of Equilibrium

Organizers: Anna Dall'Acqua (U Ulm)
Jan-Frederic Pietschmann (U Augsburg)

3 Advances in the Numerical Treatment of Quantum Systems

Organizers: Robert Altmann (OvGU Magdeburg)
Patrick Henning (RUB Bochum)

4 Operator Learning and Continuous Numerical Linear Algebra

Organizers: Matthew Colbrook (Cambridge U)
Daniel Kressner (EPFL, Schweiz)

5 Experimental Solid Mechanics

Organizers: Björn Kiefer (TU Freiberg)
Steffen Gerke (U d. BW München)
Thomas Lehmann (TU Chemnitz)

Young Researchers' Minisymposia

1 Mathematical Analysis of Active Cells

Organizers: Artur Stephan (TU Wien)
Georg Heinze (WIAS Berlin)

2 Robust and Reliable Solution Techniques for Multiphysics in Porous Media

Organizers: Maximilian Brodbeck (U Stuttgart)
Tugay Dagli (TU Chemnitz)

3 Quantum Computing in Applied Mathematics and Mechanics

Organizers: Julian Berberich (U Stuttgart)
Zeynab Kaseb (TU Delft)

4 Simulation & control of flexible multibody systems

Organizers: Philipp Kinon (KIT Karlsruhe)
Giuseppe Capobianco (FAU Erlangen-Nürnberg)

5 Interfaces between Optimal Control and Machine Learning

Organizers: Daniel Walter (HU Berlin)
Donato Vásquez-Varas (RICAM, Austria)

GAMM-Related DFG Priority Programs

1	SPP 2353: Daring More Intelligence – Design Assistants in Mechanics and Dynamics
Organizer:	Peter Eberhard (U Stuttgart)
2	SPP 2298: Theoretical Foundations of Deep Learning
Organizer:	Christopher Bülte (LMU München) Gitta Kutyniok (LMU München)
3	SPP 2256: Variational Methods for Predicting Complex Phenomena in Engineering Structures and Materials
Organizer:	Bernd Schmidt (U Augsburg) Jörn Mosler (TU Dortmund)
4	SPP 2311: Robust Coupling of Continuum-Biomechanical in Silico Models to establish active biological System Models for later use in clinical Applications - Co-design of Modeling, Numerics and Usability
Organizers:	Tim Ricken (U Stuttgart) Oliver Röhrle (U Stuttgart)
5	SPP 2410: Hyperbolic Balance Laws in Fluid Mechanics: Complexity, Scales, Randomness
Organizer:	Christian Rohde (U Stuttgart)

Events by GAMM Juniors

YAMM Lunch: Young Academics Meet Mentors

Organizers:	Miguel Angel Moreno-Mateos (FAU Erlangen-Nürnberg) Eda Oktay (MPI Magdeburg) Siddhi Avinash Patil (TU Freiberg) Jens Keim (U Stuttgart) Maximilian Brodbeck (U Stuttgart) Charlotte Geier (TU Hamburg) Andreas Warkentin (U Kassel)
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You are a PhD student or Post-Doc and you want to stay in academia? You want to get some information on how to prepare best for the next steps on the career ladder? Or are you just unsure what your next step may look like? Do you have any other questions regarding your academic life?

Then join us at the YAMM Lunch! Discuss with our experts from various career stages about their experiences, career strategies, and challenges in academia. Gain important insights in academic application procedures and get tips for your upcoming application. Find out how our experts reconcile their work, leisure time, and family life and what they think about characteristic numbers of academic track records.

The whole discussion will take place in a relaxed “World Café” setting. Food and drinks will be supplied. Note that the number of participants is limited to 60 persons. For the attendance of the event, a registration fee of € 30 will be charged.

The list of confirmed mentors is

- Christian Rohde (University of Stuttgart)
<https://www.ians.uni-stuttgart.de/institute/team/Rohde/>
- Fleurianne Bertrand (TU Chemnitz)
<https://www.tu-chemnitz.de/mathematik/numapde/>
- Grigor Nika (Karlstad University)
<https://www.kau.se/en/researchers/grigor-nika>
- Simone Göttlich (University of Mannheim)
<https://www.wim.uni-mannheim.de/goettlich/>
- Tim Ricken (University of Stuttgart)
<https://www.isd.uni-stuttgart.de/institute/team/Ricken/>
- Jörg Fehr (University of Stuttgart)
<https://www.itm.uni-stuttgart.de/institut/team/Fehr/>
- Björn Kiefer (TU Bergakademie Freiberg)
<https://tu-freiberg.de/imfd/tm-fk/team/prof-bjoern-kiefer-phd>
- Hartmut Hetzler (Uni Kassel)
<https://www.uni-kassel.de/maschinenbau/institute/institute/mechanik/fachgebiete/technische-dynamik/personen/prof-dr-ing-hartmut-hetzler.html>
- Jaan-Willem Simon (Bergische Universität Wuppertal)
<https://cam.uni-wuppertal.de/en/computational-applied-mechanics/team/team-simon/>
- Heike Faßbender (Technische Universität Braunschweig)
<https://www.tu-braunschweig.de/inum/personal/fassbender>

- Melina Freitag (University of Potsdam)
<https://www.math.uni-potsdam.de/professuren/datenassimilation/personen/prof-dr-melina-freitag/>
- Fadi Aldakheel (Leibniz Universität Hannover)
<https://www.ibnm.uni-hannover.de/en/institute/the-team/fadi-aldakheel>

Women* in GAMM Networking Event

Organizers: Sonja Hellebrand (U Duisburg-Essen)
Charlotte Geier (TU Hamburg)
with support of the GAMM Equal Opportunities Office

Dear female and non-binary researchers in GAMM,

We are pleased to invite you to the 2nd edition of the Women* in GAMM Networking Event during the GAMM Annual Meeting 2026 in Stuttgart! The event is scheduled for Wednesday, March 18th, 2026, after the last sessions of the day. A light reception will follow.

The evening will begin with an inspiring mentoring presentation delivered by distinguished female scientists. Afterward, we will have the chance to engage in a social mixer over a catered reception generously sponsored by GAMM.

Last years first edition of the event turned out to be a great way to make connections outside your regular circles, hear from representatives of all levels of academia as well as industry, and to exchange experiences and information. We look forward to meeting you there!

More details will be announced in the following weeks.

Should you have any questions about the event or wish to receive further details, please contact Charlotte Geier (charlotte.geier@tuhh.de) or Sonja Hellebrand (sonja.hellebrand@uni-due.de).

Poster session of the GAMM Juniors

Organizer: Giuseppe Capobianco (FAU Erlangen-Nürnberg)

In the poster session, the GAMM Juniors present aspects of their current research from different fields of Applied Mathematics and Mechanics. On March 17th (16:00 – 16:30) and March 18th (9:30 – 10:00 and 16:00 – 16:30) the poster's authors will be available for discussion in the poster area.

GAMM Elevator Pitch

Organizer: Miguel Angel Moreno-Mateos (FAU Erlangen-Nürnberg)

Are you a PhD student eager to present your research to the community? Would you like to share your work in a concise and engaging format while connecting with fellow researchers? If so, we warmly invite you to take part in the GAMM Elevator Pitch sessions.

Organized by the GAMM Juniors, this event offers you the opportunity to present the key ideas,

motivation, and highlights of your research in a dynamic three-minute pitch.

The format is simple and creative:

- You will have exactly 3 min to present your research.
- No slides are allowed — only your voice and a microphone.
- You may present your work in a classical scientific style, or
- You can take a creative approach: tell a story, use humor, write a poem — the stage is yours.

Why participate?

- Practice communicating your research clearly and effectively
- Present your work to a broad scientific audience
- Expand your academic network
- Increase the visibility of your research within the community

To make the event even more exciting, the most impressive pitch will receive an award sponsored by Bosch.

When will it take place?

The Elevator Pitch sessions will be held in 2 sessions during the coffee breaks on Thursday 19.3.2026 at 10:30 and 16:00. The exact location will be announced.

Registration deadline:

Wednesday evening (or earlier if capacity is reached — the number of slots is limited on a first come first serve basis).

How to register:

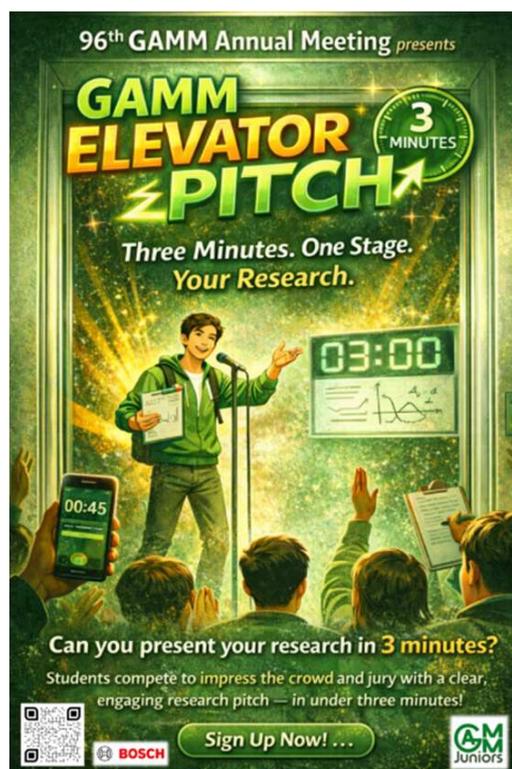
- Register in advance via the following form:

<https://forms.gle/fEiJ1EaiHR1xRPev6>

- Or sign up on-site at the GAMM Juniors stand.

We look forward to hearing about your research and seeing how you bring it to life in just three minutes.

The winner will be announced on Friday 20.3.2026 during the closing ceremony.



Pre-GAMM

Organizer: Emil Løvbak (KIT Karlsruhe)

The Pre-GAMM is an event organized by the GAMM Juniors (<https://www.gamm-juniors.de/>) and intends to prepare researchers for the 96th GAMM Annual Meeting with regard to core topics at GAMM and a soft skill seminar “how to conference”. This seminar targets especially first-time participants and early-career PhD-students.



Scientific Onboarding Event (virtual)

Monday, March 2 – Friday, March 6

The Scientific Onboarding does not require a registration. Details on the final program will be made available at the Pre-GAMM homepage.

Soft Skill Seminar: How to conference (on-site)

Monday, March 16, 11:00 – 12:30 @ K II, M 17.02

The seminar is an on-site event and requires registration. It addresses especially first-time participants, who just started with their PhD and have none / very little conference experience. The event is held as a panel discussion and prepares you for the upcoming week, answering your questions on “How to conference?” with a board of excellent researchers ranging from Post-Docs to professors! The number of participants is limited on a first-come, first-served basis. Participation in the event is free of charge. Please register via the online conference system (ConfTool). You will be able to select Pre-GAMM within the participation registration process.

Sections

S 01 Multi-body dynamics

Organizers: Peter Eberhard (U Stuttgart)
Henrik Ebel (LUT Lappeenranta)

S 02 Biomechanics

Organizers: Silvia Budday (FAU Erlangen-Nürnberg)
Gerhard Holzapfel (TU Graz)

S 03 Damage and fracture mechanics

Organizers: Andreas Ricoeur (U Kassel)
Aris Tsakmakis (TU Darmstadt)

S 04 Structural mechanics

Organizers: Sven Klinkel (RWTH Aachen)
Roger Sauer (RU Bochum)

S 05 Nonlinear oscillations

Organizers: Giuseppe Capobianco (FAU Erlangen-Nürnberg)
Jonas Breuling (U Stuttgart)

S 06.1 Material modelling with metals

Organizers: Benjamin Klusemann (Lüneburg)
Tobias Kaiser (TU Dortmund)

S 06.2 Material modelling with non-metals

Organizers: Thomas Böhlke (KIT Karlsruhe)
Michael Johlitz (U d. BW München)

S 07 Coupled problems

Organizers: Alexander Düster (TU Hamburg)
Markus Kästner (TU Dresden)

S 08 Multiscales and homogenization

Organizers: Sandra Klinge (TU Berlin)
Johanna Eisenträger (IWT Bremen)

S 09 Laminar flows and transition

Organizers: Philipp Schlatter (FAU Erlangen-Nürnberg)
Ramis Örlü (Oslo Metropolitan U)

S 10 Turbulence and reactive flows

Organizer: Andrea Beck (U Stuttgart)

S 11 Interfacial flows

Organizers: Michael Schlüter (TU Hamburg)
Alexandra von Kameke (HAW Hamburg)
Christian Weiland (TU Hamburg)

S 12	Waves and acoustics	Organizers:	Sabine Langer (TU Braunschweig) Manuel Keßler (U Stuttgart)
S 13	Flow control	Organizers:	Jörn Sesterhenn (U Bayreuth) Flavio Giannetti (U Degli Studi di Salerno)
S 14	Applied analysis	Organizers:	Wolf-Patrick Düll (U Stuttgart) Dominik Engl (KU Eichstätt-Ingolstadt)
S 15	Uncertainty quantification	Organizers:	Laura Scarabosio (Radboud U) Björn Sprungk (TU Bergakademie Freiberg)
S 16	Optimization	Organizers:	Christoph Hansknecht (TU Clausthal) Alberto De Marchi (U d. BW München)
S 17	Applied and numerical linear algebra	Organizers:	Jemima Tabcart (TU Eindhoven) Marcel Schweitzer (U Wuppertal)
S 18	Numerical methods for differential equations	Organizers:	Thomas Wick (LU Hannover) Tim Haubold (U Göttingen)
S 19	Optimization of differential equations	Organizers:	Manuel Schaller (TU Chemnitz) Behzad Azmi (U Konstanz)
S 20	Dynamics and control	Organizers:	Johannes Köhler (ETH Zürich) Andrea Iannelli (U Stuttgart)
S 21	Mathematical signal and image processing	Organizers:	Benjamin Berkels (RWTH Aachen) Alexander Effland (U Bonn)
S 22	Scientific computing	Organizers:	Alexander Heinlein (TU Delft) Andrea Thomann (U Strasbourg)
S 23	Applied operator theory	Organizers:	André Schlichting (U Ulm) Olaf Post (U Trier)

S 24	History of applied mathematics and mechanics
Organizers:	Jörg Wagner (U Stuttgart) Beate Ceranski (U Stuttgart)
S 25	Machine learning and data science in applied mathematics and mechanics
Organizers:	Felix Fritzen (U Stuttgart) Martin Stoll (TU Chemnitz)
S 26	Modelling, analysis and simulation of molecular systems
Organizers:	Benjamin Stamm (U Stuttgart) Muhammad Hassan (TU München)
S 27	Modern teaching and didactics in mathematics and mechanics
Organizers:	Martin Frank (KIT Karlsruhe) Sarah Schönbrodt (Paris Lodron U Salzburg)
S 28	Inverse problems
Organizers:	Jan-Frederik Pietschmann (U Augsburg) Frank Werner (U Würzburg)

Special Events

Monday, March 16th

Pre-GAMM Soft Skill Seminar: How to conference
11:00 – 12:30, M 17.02

Opening

13:00 – 14:00, M 17.01 live broadcast in M 17.02

Ludwig Prandtl memorial lecture

14:00 – 15:00, M 17.01 live broadcast in M 17.02

Welcome reception

19:00 – 23:00, Rathaus Stuttgart,
Marktplatz 1, 70173 Stuttgart

Tuesday, March 17th

YAMM lunch: Young Academics Meet Mentors
13:00 – 14:00, **Foyer KI (M-17.25)**

Poster session

16:00 – 16:30, Foyer KII

Conference dinner

19:30 – 23:30, Alte Reithalle, Seidenstraße 34 (entrance via
Maritim Hotel), 70174 Stuttgart

Wednesday, March 18th

Poster session

09:30 – 10:30 and 16:00 – 16:30, Foyer KII

Richard-von-Mises award lectures

10:00 – 11:30, M 17.01 live broadcast in M 17.02

GAMM General Assembly

11:30 – 13:00, M 17.01

DEKOMECH Assembly

13:00 – 14:00, **M 17.25 (M-17.01)**

NIAM Assembly

13:00 – 14:00, **M 17.21 (M-17.02)**

Women* in GAMM Networking Event

19:00 – 21:30, M 17.02

Thursday, March 19th

Public lecture

19:00 – 20:30, M 17.01 live broadcast in M 17.02

Friday, March 20th

Closing

13:00 – 14:00, M 17.01 live broadcast in M 17.02

Conference Venues & Maps

Kollegiengebäude KI and KII



www.uni-stuttgart.de

- Lecture halls and seminar rooms
- Registration

KII (Keplerstraße 17)



© David Matthiessen

- Lecture hall M 17.01 and M 17.02
- All plenary events

Alte Reithalle



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© Maritim Hotelgesellschaft mbH

- Conference Dinner
- Alte Reithalle, Seidenstraße 34 (entrance via Maritim Hotel), 70174 Stuttgart (0.8 km away from KII)

Rathaus Stuttgart



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© Stadt Stuttgart/Thomas Hörner

- Welcome reception
- Rathaus Stuttgart, Marktplatz 1, 70173 Stuttgart (1.3 km away from KII)

Campus

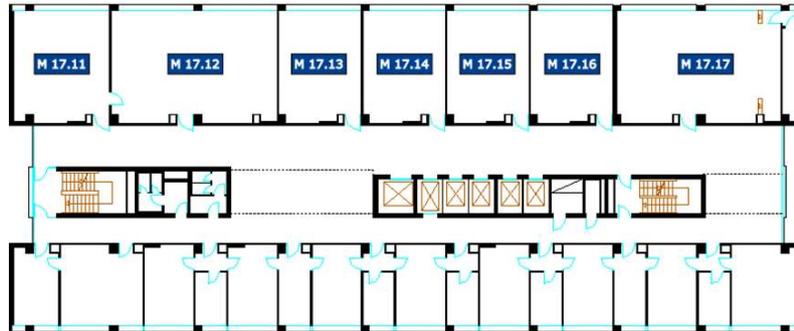
The two main lecture halls (Hörsaal) are those with the numbering M 17.01 and M 17.02 located in the basement of building KII (Keplerstraße 17). They will host all plenary events. The seminar rooms are located in buildings KI (Keplerstraße 11) numbered M 11.xy and in KII (Keplerstraße 17) numbered M 17.xy, with x and y indicating the floor and room number, respectively. Room overviews for each building are given below.



Room Overview KII (Keplerstraße 17)

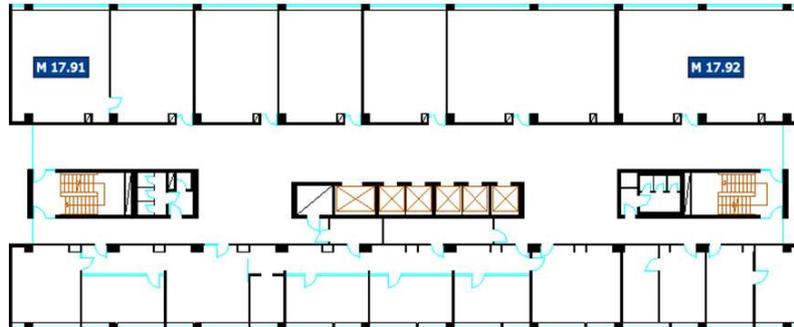


KII 1st Floor

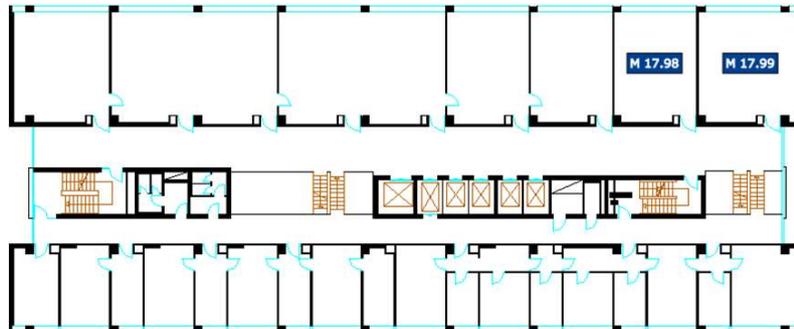


(... Similar for 2nd, 5th, 7th and 8th floor ...)

KII 9th Floor

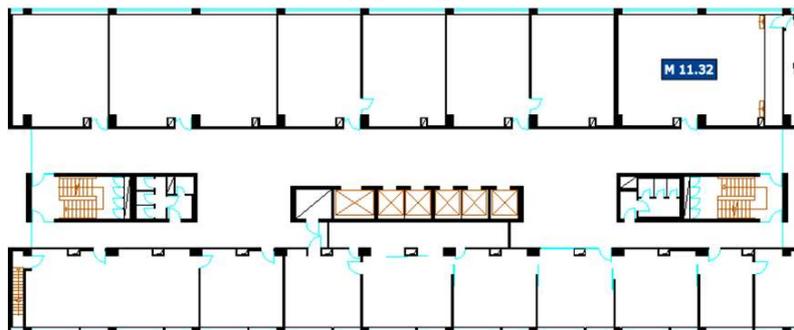


KII 10th Floor

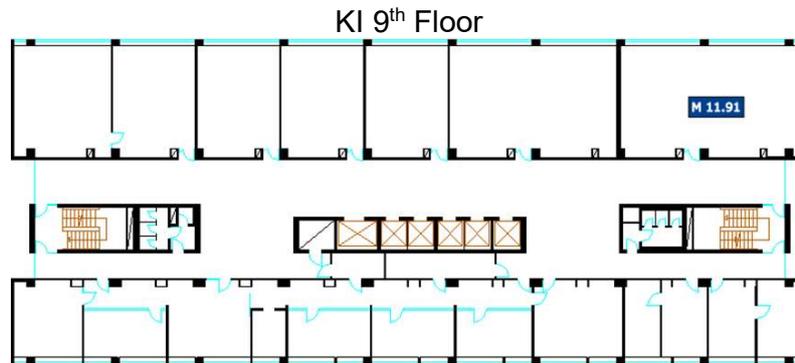


Room Overview KI (Keplerstraße 11)

KI 3rd Floor



(... Similar for 4th, 6th, 7th and 8th floor ...)

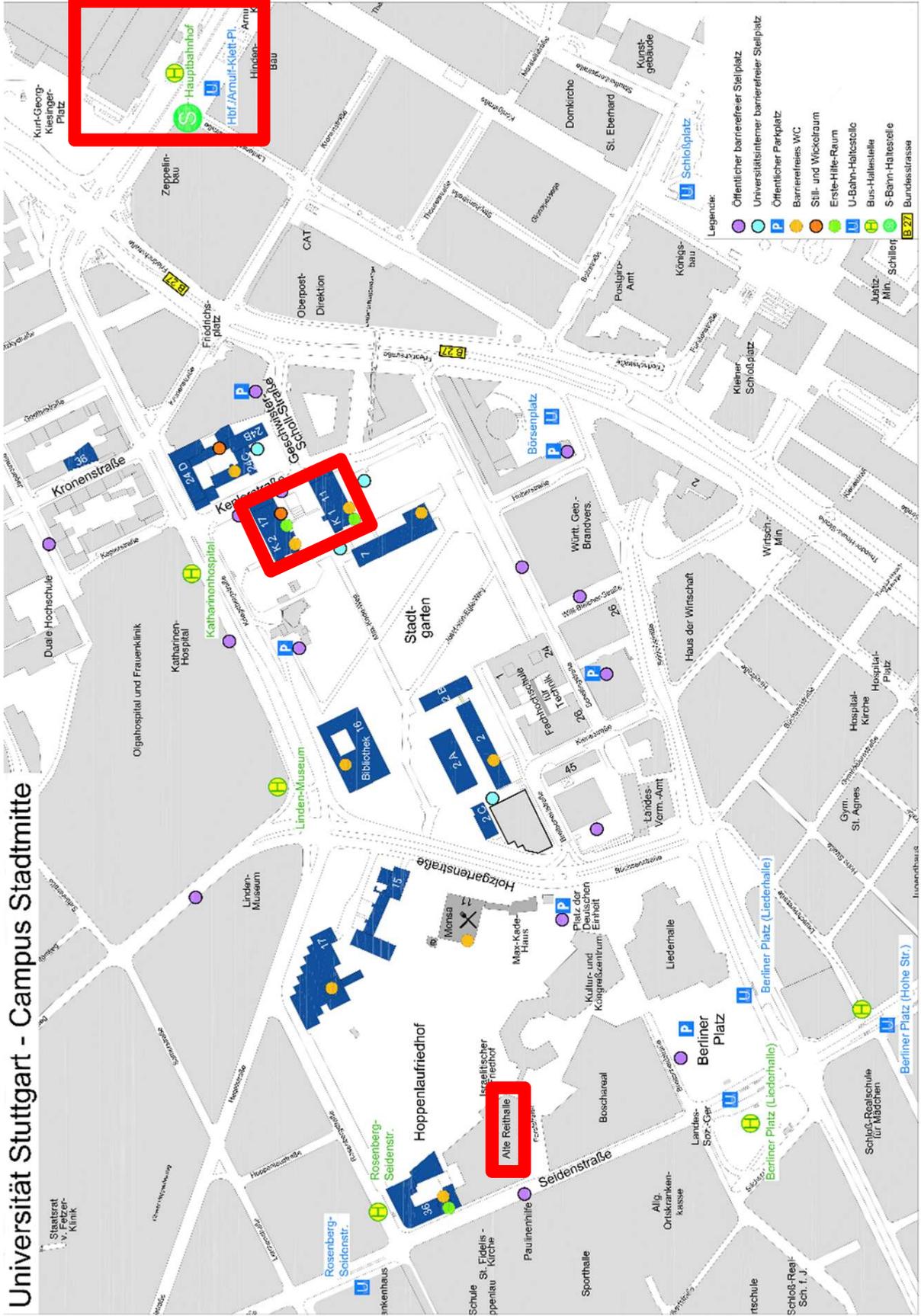


Please note the **usage of the elevators**: First enter your destination floor on one of the terminals in front of the elevators. The terminal will display the elevator number that brings you to the desired floor. It is **not** possible to change the floor from within the elevators.

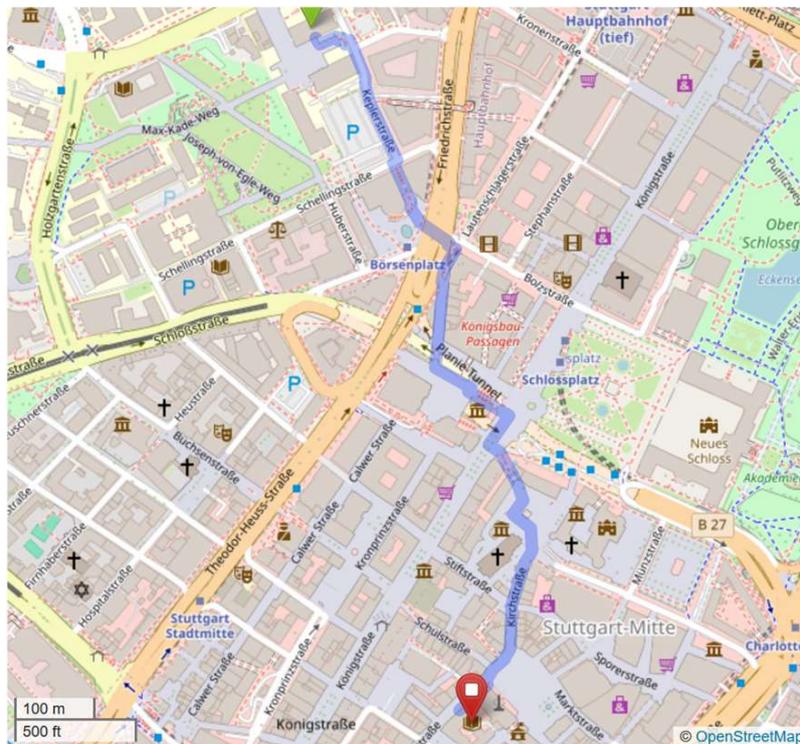
In order to guarantee good accessibility, signposts display the buildings together with their rooms, and indicate availability of coffee desks, in addition, green beach flags with the GAMM logo are located at the main entrances of all important buildings.

Besides the rooms for the presentations, we also provide workspaces and several rooms for group discussions, meetings, etc. For availabilities please contact the registration desk.

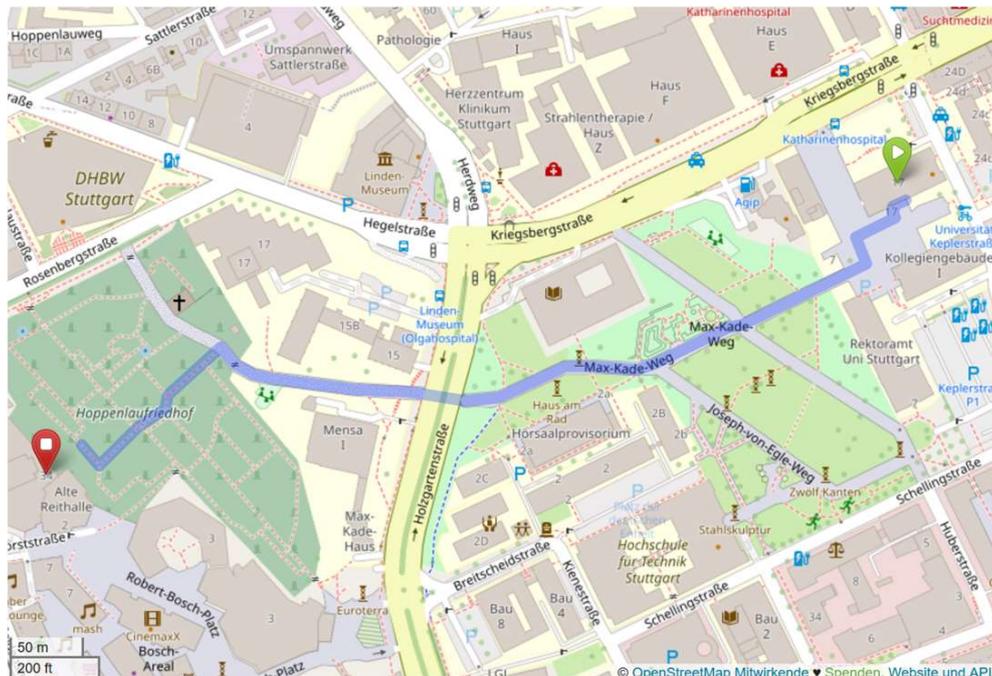
Universität Stuttgart - Campus Stadtmitte



Route: Venue (Keplerstraße 17) to Welcome Reception (Rathaus, Marktplatz 1)



Route: Venue (Keplerstraße 17) to Conference Dinner (Alte Reithalle, Seidenstraße 34, entrance via Maritim Hotel)



WiFi

Eduroam network is available all across the campus. An account from your home institution is required.



Additionally, free access to uni-stuttgart-open WiFi is possible.



By using this internet access, you agree with the User Regulations for Digital Information Processing and Communication Equipment (IaC) at the University of Stuttgart.

Conference App

We use the Conference4me smartphone app for planning your GAMM 2026.

<https://conference4me.psnc.pl/download/>



With the app, you can explore the entire program and quickly build your personalized agenda right from your phone or tablet. The app is available in the corresponding app stores for Android, iOS, and Windows Phone. After installing the app, you can search for “GAMM 2026” or you will directly see the 96th Annual Meeting of GAMM in the list of running conferences. Please ensure that you regularly perform an “agenda update” with the corresponding menu entry on the “program” page.

Guidelines: Presenters

Please check the time and lecture room of your presentation in the daily program and on the info boards as there might have been changes.

Technical staff is assigned to each lecture room for help with technical equipment.

Each lecture room is equipped with a computer (Microsoft Windows, Microsoft Office, Acrobat Reader) and a beamer.

Your slides shall be prepared in the format of 16:9, whereas 4:3 is also possible.

You are asked to upload your presentation at the very latest in the break before the session to the session laptop. All laptops will be used for the same sections throughout the week.

Please be present at least 10 minutes prior to the start of your session and let the chairperson know you are there.

Please make sure to stay in your session from the beginning in order to ensure smooth changes between the individual presentations.

The time scheduled for the presentations is

- 20 min. (incl. discussion) for presentations in sections, MS, YRM, DFG-PP sessions,
- 40 min. (incl. discussion) for Topical & Keynote Lectures in sections, MS, YRM, DFG-PP sessions,
- 30 min. for Richard von Mises Lectures, and
- 60 min. for Plenary and Ludwig Prandtl Memorial Lecture.

The chairpersons are requested to stop presentations after the scheduled time has passed.

Guidelines: Chairs

You are kindly asked to switch between presentations by simply announcing the name of the next presenter and the title of the presentation. Due to the tight schedule, there will not be sufficient time for introducing individual lecturers in a more detailed manner.

Please do your best to strictly limit the duration of each presentation and discussion to the allotted time.

If a lecturer is missing, please stick to the original program, i.e., extend the discussion time of the preceding presentation or allow a break for the duration of the missing lecture(s). This enables participants to move in between sessions and to listen to chosen individual lectures according to the announced sequence.

Coffee Breaks / Lunches

Coffee Breaks

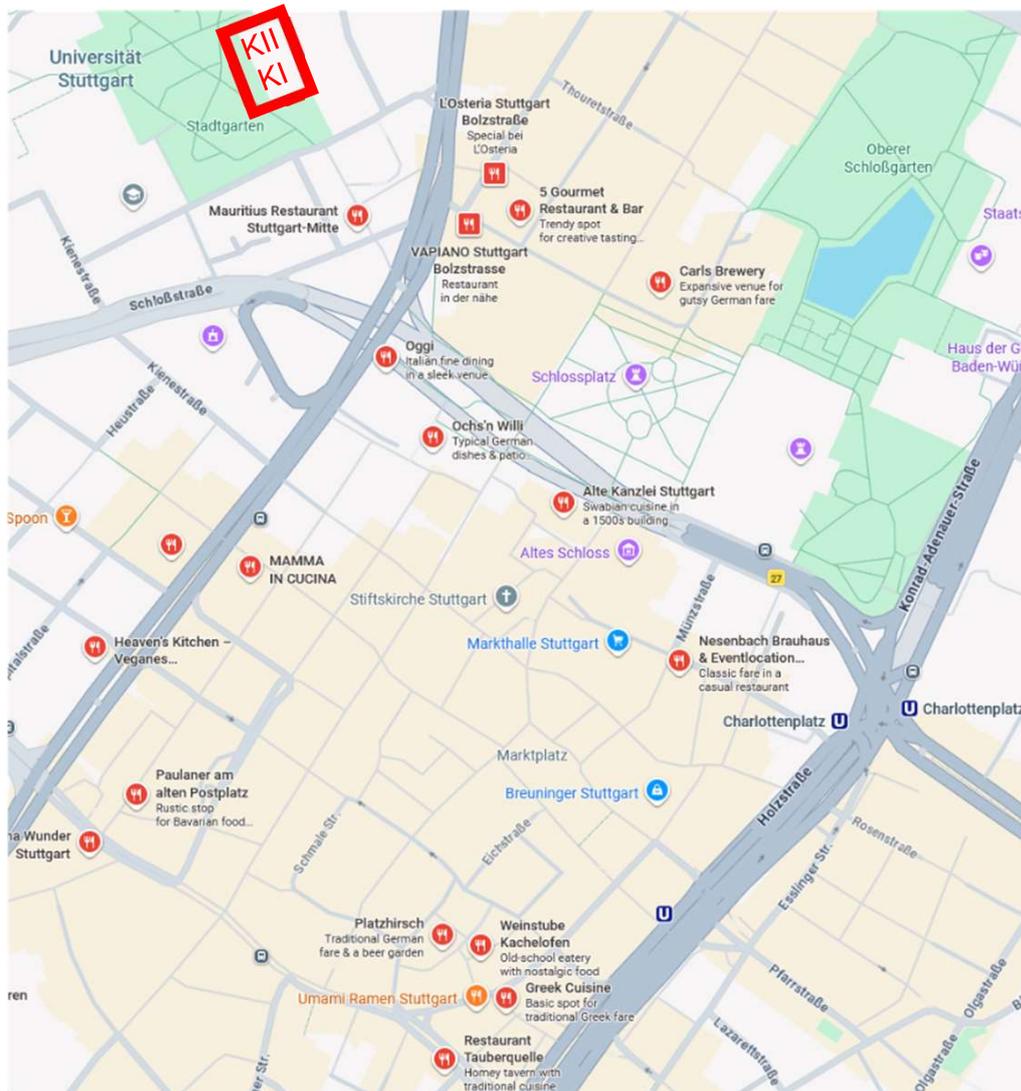
The coffee breaks will be held at the foyers of the buildings KI and KII and will be indicated by signposts. A selection of beverages and food will be offered. The coffee breaks are included in the registration fee.

Enjoy the selection!



Lunch

Lunches are not included in the registration fee. The city center is in direct walking distance with plenty of options for lunches as indicated by the map below. Additionally, three food trucks have been organized to be present at the conference site offering a variety of dishes.



Sustainability

The organizers of GAMM 2026 are committed to reducing the environmental impact of the conference and to promoting sustainable practices wherever possible. In catering, we place a strong emphasis on regional food in order to minimize transport routes. In addition, vegetarian options are offered during coffee breaks and accompanying meetings to help reduce the overall CO₂ footprint of the event. To avoid unnecessary paper waste, the book of abstracts is provided exclusively in electronic form as a PDF. General information and the daily program are not printed by default but made available through print-on-demand, allowing participants to decide individually whether a printed version is needed. Sustainable mobility is encouraged by promoting public transportation: participants who book their accommodation via the conference website will receive a free public transport ticket for the duration of the conference. With these measures, we aim to contribute to a more sustainable conference while maintaining a high-quality experience for all participants.

Child Support

Child Care:

We offer flexible childcare service for children between 2 months and 6 years of age during the conference. If you are interested or need further information, please contact us at gamm2026@isd.uni-stuttgart.de until January 22nd, 2026.

Support for Accompanying Child Care Persons:

Mothers or fathers of young children who travel with their child to a GAMM annual conference and require an accompanying person for the conference (e.g. because the mother is breastfeeding) and do not receive financial support from their home university may be eligible to receive financial support from the GAMM by submitting an application to gleichstellung@gamm.de. We ask that the relevant support be requested from the home institution first. Should the home institution decline such a request, the Equality Committee may grant reimbursement for travel and accommodation of an accompanying person.

If you are interested or need further information, please contact us at gleichstellung@gamm.de.

Support is provided upon presentation of proof of participation in the GAMM Annual Conference and of a declined request to the home institution. Decisions are made on a rolling basis until funding expires.

Ombudspersons

This conference is accompanied by two ombudspersons, who can be contacted in all cases of discrimination or harrassment during GAMM 2026:



Dr.

Ursula Meiser

Ombudsperson teaching and doctoral degree studies
Staff Position of the Rector
Office of the Rectorate

Contact:



+49 711 685 81007

ursula.meiser@rektorat.uni-stuttgart.de



Dr.-Ing.

Ulrich Eggert

Commissioner for students with disabilities or chronic illnesses
Deutschlandstipendium
Employer's Representative for Persons with Disabilities,
Contact Person for Anti-Discrimination
Division 3 – Students' Affairs
32 Student Counseling Center

Contact:



+49 711 685 68330

ulrich.eggert@verwaltung.uni-stuttgart.de

Local Contacts

Chairpersons	Tim Ricken Oliver Röhrle	
Conference office	Dimitra Lampropoulou Rebecca Katzer	gamm2026@isd.uni-stuttgart.de

Social Program

Several trips and guided tours are offered in cooperation with the Stuttgart Convention Bureau. Please ask at the Conference Desk for details.



Conference Dinner



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The conference dinner will be held at the Alte Reithalle in Stuttgart and is a notable monument of 19th-century iron architecture. Built in 1887 – 88 it reflects the Neo-Renaissance style and advanced construction methods of its time. It was designed by architect Robert von Reinhardt as a versatile multi-purpose hall. A remarkable feature is the oval riding arena with a wide-spanning roof constructed from iron trusses, the supports intentionally left exposed to emphasize the material. Its outstanding interior features include two impressive chandeliers, each measuring 6.50 m in diameter and weighing 672 kg. During World War II it suffered significant damage and was later rebuilt in a somewhat simplified form. From its origins as a space for equestrian displays, the Alte Reithalle has evolved into a premium venue combining historical character with modern event functionality within the Maritim Hotel complex. With its distinctive iron-and-glass construction and adaptive reuse, the hall exemplifies Stuttgart's industrial-era architectural heritage.

We encourage you to seize this opportunity to be part of this hopefully unforgettable evening and secure your place for the conference dinner together with the registration.



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Travelling to Campus City Center

For maps and detailed instructions on arriving to the conference venue, we refer to <https://www.uni-stuttgart.de/en/university/map/>

We give some directions for arriving by ...

 <p style="text-align: center;">... car</p>	<p>The Stuttgart urban area is considered to be a „low emission zone“. This means that every car must have a green emissions sticker to be able to drive and park in Stuttgart. All vehicles with diesel engines classified under the Euro IV emissions standard and below are also banned from the city year-round. The City of Stuttgart has also put together some additional information on the ban on diesel vehicles.</p>
 <p style="text-align: center;">... train</p>	<p>From Stuttgart main station (“Hauptbahnhof”) you get to the venue:</p> <p>By bus: The bus stop is located in front of the main train station building on the street side of the building. From there, either take line 42 in the direction of Erwin-Schoettle-Platz or line 40 in the direction of Vogelsang and get off at the Katharinenhospital (Katharinen Krankenhaus) stop. From there it is only a few steps to the conference site.</p> <p>If you arrive by long-distance train, turn right or left out of the station building and follow the signs for the bus and the green "S-Bahn" signs. You can buy your bus ticket either via the VVS app, on the bus from the driver or at the ticket machine. You need a "Kurzstrecken-Ticket" for one zone, which costs 2.10 €. You can also buy day or group tickets.</p> <p>By foot: If you prefer to walk from the main station, it takes about ten minutes.</p>
 <p style="text-align: center;">... plane</p>	<p>From Stuttgart Airport you get to the main station (“Hauptbahnhof”). If travelling by light rail or train, buy a ticket for two zones at one of the orange colored vending machines or the VVS app.</p> <p>By Light Rail: From the airport, you can take the U6 light rail line in the direction of Rastatter Straße to the main train station (Hauptbahnhof, with stop Arnulf-Klett-Platz). Then take the escalator up and follow the directions given above on how to get from the main train station to the conference venue.</p> <p>By S-Bahn: The train stop is located directly beneath the airport. Just follow the signs marked “S”. Take a train (S2 or S3) into the direction “Hauptbahnhof” (main station) and get off there.</p> <p>By cab: The cabs are located directly in front of the arrival’s hall and the journey to the city center costs around 40 €.</p>

Venue



© SMG Sarah Schmid

Located in the heart of Europe and surrounded by rolling hills and picturesque vineyards, Stuttgart is a dynamic city that blends cutting-edge technology with a rich cultural heritage. With a population of around 635,000 inhabitants and a vibrant academic community of over 60,000 students in its region, Stuttgart offers an inspiring environment for innovation, exchange, and discovery.

As the birthplace of the automobile and a leading center for research, science, and industry, Stuttgart moves the world with its pioneering spirit. At the same time, the city enchants visitors with beautiful parks, historic castles, and a lively arts and culinary scene. From world-renowned museums and architectural landmarks to renowned local wines and cuisine, Stuttgart provides countless opportunities to explore and enjoy.

During your visit to the conference, you will experience firsthand the spirit of a city that shapes the future — and welcomes you with warmth, creativity, and an open mind. We look forward to welcoming you to Stuttgart!



Abstract Submission (closed)

Dates

Abstract submission starts on **November 1st**, 2025 and is closed after an extended deadline **January 8th**, 2026.

The notification of acceptance is scheduled for January 15th, 2026.

Submission

Abstracts have to be submitted via the online submission system:

<https://www.conftool.org/gamm2026/>

Call for Contributions

All participants are invited to submit an abstract for a short communication (max. 400 words, plain text) in one of the sections (20 minutes including discussion).

For a contribution in a minisymposium, young researchers' minisymposium, and GAMM related DFG priority programs, an explicit invitation by the respective organizers is mandatory.

Authors are kindly requested to write the abstract in English. Each participant is allowed to present **one paper only**.

The collected abstracts will be published online.

For possible publication of the accepted lectures in the *Proceedings of Applied Mathematics and Mechanics* (PAMM), see the relevant information below.

Please assign your abstract to a section during the online submission. Additionally, please give a set of keywords related to the abstract.

Registration

Registration

Participants are required to register. Please note that the registration fee does not include accommodation.

Online registration is possible as of **November 15th, 2025** through the website:

<https://www.conftool.org/gamm2026/>

and expires on **March 1st, 2026**, while on-site registration is still possible. Online registration is recommended.

Conference fee

	Early Fee until January 22 nd , 2026	Regular Fee from January 23 rd , 2026
GAMM Members (with or without contribution)	395 €	450 €
Non-Members (with or without contribution)	500 €	550 €
Accompanying Person (more information: see below)	90 €	90 €
+ Conference Dinner (limited to 480 participants)	+ 90 €	+ 90 €
Bachelor/Master Students (without contribution)	0 €	0 €

After March 1st, 2026, only on-site registration and payment is possible.

Registration fee includes

- Participation
- Book of abstracts (digital)
- Final program
- Public lecture
- Coffee breaks
- Welcome reception (limited to 500 participants on “first come, first served” basis)
- Certificate of attendance

Accompanying persons	<ul style="list-style-type: none"> • are registered by the related participant and are welcome to join the <ul style="list-style-type: none"> ○ Welcome reception (March 16th, 2026, limited to 500 participants on “first come, first served” basis) ○ Public lecture (March 19th, 2026) ○ Conference dinner (March 17th, 2026 – separate Conference Dinner ticket (+90 Euro) is required, limited to 480 participants on “first come, first served” basis) 															
Methods of payment	The methods of payment will be listed on the website.															
Conditions and cancellation	<p>Any changes and cancellations must be done in written form and sent to the conference office at gamm2026@isd.uni-stuttgart.de.</p> <p>For cancellations of registrations received by January 31st, 2026, the booking fee less an administrative fee of 100 € will be refunded. For cancellations received after this date, no refunds are made.</p> <p>The cancellation conditions for hotel rooms are based on the terms and conditions of the respective accommodation.</p>															
Opening hours registration desk	<table> <tr> <td>Monday,</td> <td>March 16th</td> <td>10:00–18:30 – KI/KII Foyer</td> </tr> <tr> <td>Tuesday,</td> <td>March 17th</td> <td>08:00–18:30 – KII Foyer</td> </tr> <tr> <td>Wednesday,</td> <td>March 18th</td> <td>08:00–18:30 – KII Foyer</td> </tr> <tr> <td>Thursday,</td> <td>March 19th</td> <td>08:00–18:30 – KII Foyer</td> </tr> <tr> <td>Friday,</td> <td>March 20th</td> <td>08:00–14:30 – KII Foyer</td> </tr> </table>	Monday,	March 16 th	10:00–18:30 – KI/KII Foyer	Tuesday,	March 17 th	08:00–18:30 – KII Foyer	Wednesday,	March 18 th	08:00–18:30 – KII Foyer	Thursday,	March 19 th	08:00–18:30 – KII Foyer	Friday,	March 20 th	08:00–14:30 – KII Foyer
Monday,	March 16 th	10:00–18:30 – KI/KII Foyer														
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Wednesday,	March 18 th	08:00–18:30 – KII Foyer														
Thursday,	March 19 th	08:00–18:30 – KII Foyer														
Friday,	March 20 th	08:00–14:30 – KII Foyer														

Accommodation

Special hotel contingents at reduced rates are available for this year’s GAMM Annual Conference. Note that these quotas are limited, both, in time and quantity. Refer to the page <https://www.stuttgart-tourist.de/gamm-jahrestagung-2026> for the exact expiration dates and links for the booking.

Alternatively, bookings can be made by sending an e-mail to hotels@stuttgart-tourist.de. In your e-mail, please specify your arrival and departure dates, room preferences and contact details, quoting the keyword “GAMM Annual Conference 2026”. The Stuttgart Convention Bureau will take care of the rest.

Publication of Lectures

Plenary lectures

Plenary lectures can be published in the regular issues of ZAMM ("Zeitschrift für Angewandte Mathematik und Mechanik").

Papers presented in minisymposia, YR minisymposia, and in sections

Papers presented at minisymposia, YR minisymposia, and in sections can be published electronically in PAMM ("Proceedings in Applied Mathematics and Mechanics").

The papers must have minimum 6 pages for all contributions (minisymposium, YR minisymposium, DFG PP section, a special topic lecture of a section, contributed lecture to the sections.)

The editors reserve the right to deny publication of a manuscript based on the referee's judgment. Papers need to be prepared in accordance with Wiley's Author's Instructions for Publication at

<http://www.gamm-proceedings.org/>

Papers have to be submitted after the conference by May 31st, 2026 via the website

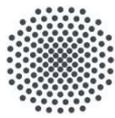
<https://mc.manuscriptcentral.com/pamm>



Important Dates

Start of abstract submission	November 1 st , 2025
Start of online registration	November 15 th , 2025
Abstract submission deadline for talks	December 8th, 2025, January 8th 2026
Notification of acceptance of abstract	January 15 th , 2026
Preregistration for child care	January 22 nd , 2026
Closure of early online registration (Early fee)	January 22 nd , 2026
Closure of online registration (<i>On-site registration is still possible</i>)	March 1 st , 2026
PAMM submission deadline	May 31 st , 2026

Sponsors and Partners



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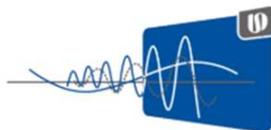


SFB 1313

SimTech



ians



IMSB



DFG Deutsche
Forschungsgemeinschaft
German Research Foundation



German Society for
Aeronautics and Astronautics
Lilienthal-Oberth e.V.

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Stuttgart
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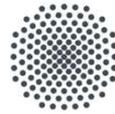
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Germany

The Collaborative Research Centre (SFB) 1313 “Interface-Driven Multi-Field Processes in Porous Media: Flow, Transport and Deformation” explores how interfaces control complex coupled processes in porous materials.

Based at the University of Stuttgart and funded by the German Research Foundation (DFG) from 2017 to 2029, the Collaborative Research Centre brings together around 60 researchers from civil and environmental engineering, mathematics, mechanical engineering, computational science, aerospace engineering, and physics. Together, they develop fundamental understanding and advanced simulation approaches to address key challenges in energy, environment, infrastructure, and biological systems. The research environment extends far beyond Stuttgart and includes the Forschungszentrum Jülich, the Technical University of Hamburg, and more than 35 international partner institutions.

A defining feature of SFB 1313 is the close integration of theory, simulation, and experimentation. Experimental work is carried out in the Porous Media Lab (PML), a shared research facility at the University of Stuttgart that provides advanced capabilities for investigating coupled electro-thermo-hydro-chemo-mechanical processes in porous materials. Early-career researchers are supported through the integrated Research Training Group, creating an interdisciplinary environment that encourages new ideas and collaboration.

Contact: Prof. Dr.-Ing. Holger Steeb, University of Stuttgart, Institute of Applied Mechanics, SFB 1313 spokesperson, +49 711 685 66029, holger.steeb@mechbau.uni-stuttgart.de

Further information:

<https://www.sfb1313.uni-stuttgart.de/>

<https://www.linkedin.com/company/sfb-1313>

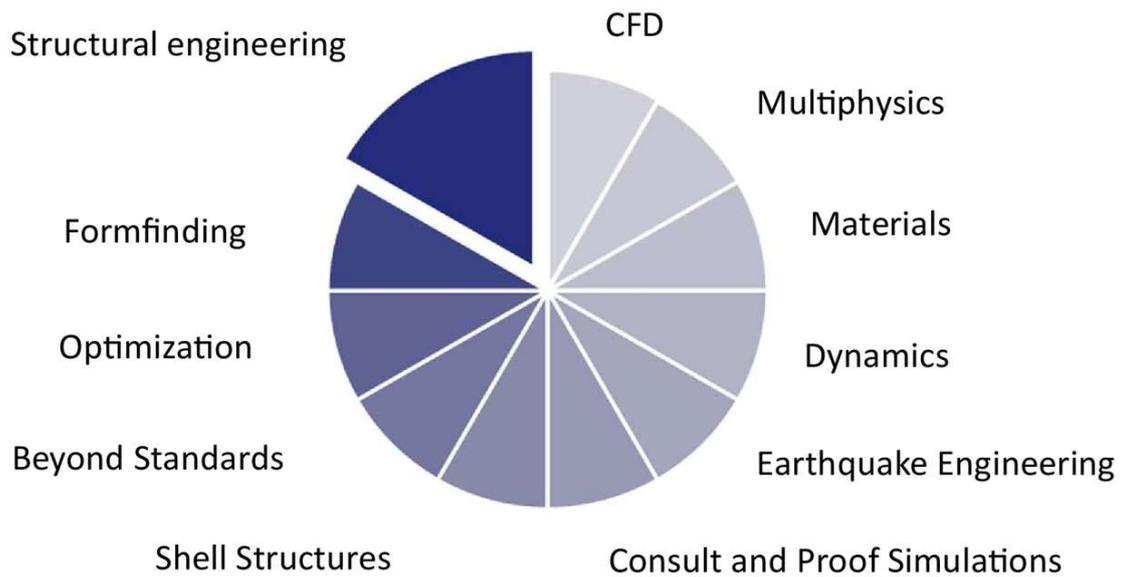
www.youtube.com/SFBUniversity

<https://www.mib.uni-stuttgart.de/pml/>





Fields of Activity



About Bosch Research

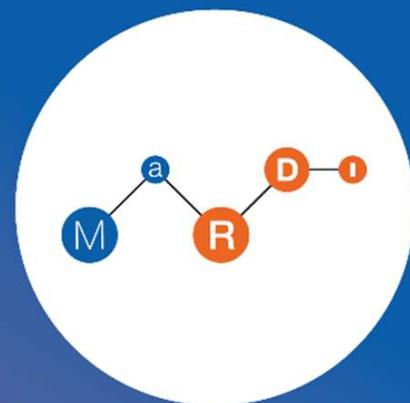


Bosch Research serves as the central hub for innovation within Bosch. With a global team of around 1,750* experts in the Research and Advanced Engineering division, Bosch collaboratively develops the future generation of products and services across all its business sectors. In addition, Bosch Research collaborates with scientific partners at nine locations in six countries to conduct research on important technological innovations. The research is divided into six fields that will significantly shape our future: automation, digitalization & connectivity, artificial intelligence, electrification, climate action & sustainability, and healthcare. Under the claim "Invented for life," Bosch Research creates technological solutions that contribute to improving people's lives in the world of tomorrow.

** as of December 31, 2024*



MaRDI booth
@GAMM 2026 –
visit us!



do the math FAIR your data!

MaRDI is a DFG-funded initiative rooted in the mathematical community.
<https://portal.mardi4nfdi.de>

The Mathematical Research Data Initiative – MaRDI – offers a wide range of services to help your research data, software and workflows become more FAIR and sustainable. Join us at our booth in the lobby to learn more!

- Introduction to MaRDI services
- Meet the experts
- Interactive research-data game
- Bring your algorithm, bring your model
- Beyond MaRDI



<https://portal.mardi4nfdi.de/wiki/MaRDIbooth@Gamm2026>

October 20–22

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Darmstadt

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Direct exchange with leading Synopsys developers

Expert Sessions

Deep dives into physics-based simulation and digital engineering processes

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Papers



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Monday, March 16

50

PML (KII, M17.01)	14:00
	Transition to the ultimate regime in Rayleigh-Bénard turbulence and other wall-bounded turbulent flows <i>Lohse, Detlef</i>

PL1 (KII, M17.01)	15:00
	From Models to Twins: Parametric Reduction for Adaptive Intelligence <i>Chatzi, Eleni</i>

YRM1 (KI, M11.42)	16:30	16:50	17:10	17:30	17:50	18:10
	Stability of equilibria of the spatially inhomogeneous Vicsek-BGK equation <i>Egger, Stefan</i>	Pattern selection in a mechanochemical model of pattern formation <i>Münnich, Finn</i>	Curvature-driven pattern formation in biomembranes: A gradient flow approach <i>Pešić, Anastasija</i>	A free boundary problem modeling cell polarization <i>Logjoti, Anna</i>	Critical lack of detailed balance in stochastic proofreading models <i>Franco, Eugenia</i>	Living or non-living? Structural conditions for multi-scale reaction kinetics <i>Spellmann, Holger</i>
YRM2 (KI, M11.32)	Solvers for mixed finite element methods based on spanning trees <i>Boon, Wietse M.</i>		Time Parallel Vectorized Block Krylov Methods with applications to Porous Media problems <i>Schell, Alexander</i>	Adaptive matrix-free simulations of fluid-filled phase-field fractures with fixed-stress coupling and fracture-width computation <i>Kolditz, Leon</i>	Least-Squares based Error Estimates for Nonlinear Problems: On a Unified Framework and its Application to Poro-Elasticity <i>Brodbeck, Maximilian</i>	Toward Physics-Informed Operator-in-the-Loop Hybrid Solvers for Poroelasticity <i>Mandl, Luis</i>

	16:30	16:50	17:10	17:30	17:50	18:10
YRM3 (KII, M17.02)	An introduction to quantum algorithms and their robustness <i>Berberich, Julian</i>		Nonlinear Quantum Computation by Amplified Encodings <i>Deiml, Matthias</i>	Solving complex systems of equations with quantum annealing <i>Kaseb, Zeynab</i>	Performance enhancing of hybrid quantum-classical Benders' algorithm for MILP optimization <i>López-Baños, Sergio</i>	Symbolic & parametric quantum circuit evaluation for tailored circuit optimization <i>Ahrend, Oliver</i>
YRM4 (KI, M11.62)	Efficient computational modeling of nonlinear beam networks <i>Le Clézio, Helen</i>	Simulation and parameterization of nonlinear elastic bending behavior in slender cables <i>Zhao, Tian</i>	Robust and fast simulation of nonlinear rods in flexible multibody systems <i>Herrmann, Marco</i>	Adaptive implicit Runge-Kutta methods for stabilized index-one differential-algebraic equations in flexible multibody systems <i>Breuling, Jonas</i>	Multibody Models Generated From Images: From Sketches to Simulation <i>Manzl, Peter</i>	Using a Modular Successive Approach For Model Inversion of Multibody Systems with Unstable Internal Dynamics <i>Hochdahl, René</i>
YRM5 (KII, M17.01)	Localized actuators for parabolic systems: stabilizability and learning of optimal setups <i>Walter, Daniel</i>	Optimization-Free Diffusion Model - A Perturbation Theory Approach <i>Oster, Mathias</i>	Parametrization of semi-concave functions applied to Optimal Feedback synthesis <i>Vásquez-Varas, Donato</i>	Probabilistic Surrogate Models using Flow Matching <i>Harder, Hans</i>	Separable approximations of optimal value functions and their representation by neural networks <i>Sperl, Mario</i>	Tensor-Train-Based Semi-Lagrangian Schemes for High-Dimensional Mean Field Games <i>Saluzzi, Luca</i>

Tuesday, March 17

	08:30	08:50	09:10	09:30	09:50	10:10
S02.01 (KII, M17.12)	Multi-Scale Experimental and Computational Insights into Arterial Regulation After the Ross Procedure <i>Famaey, Nele</i>		Comparison of Finite Element Approximations for Electro-Mechanical Models of the Human Heart <i>Stengel, Laura</i>	Modeling Active Cardiac Mechanics: The Role of the Right Ventricle in the Left Ventricle Function <i>Ogiermann, Dennis</i>	Electromechanical Computational Model of the Human Stomach <i>Cyron, Christian</i>	Continuously embedded sub-structures in hyperelastic materials <i>Fries, Thomas-Peter</i>
S03.01 (KII, M17.74)	Modeling Corrosion-Fatigue Degradation in Reinforced Concrete Structures <i>Gopakumar, Manikandan</i>	A phase-field framework for rate-dependent failure in polymer fiber-reinforced high-performance concrete <i>Margalho de Barros, Marcos Andre</i>	Efficient Simulation of Fiber-Reinforced Concrete Considering the Micro-Mechanical Behavior of the Fiber-Concrete Interface <i>Poriete, Paula</i>	Optimization maze solving algorithm for 3D-PRCSM multi-scale model analysis through ESDA <i>Diaz, Guillermo</i>	Incorporation of fiber orientation state measures in the model-based design of fiber-reinforced concrete structures <i>Neu, Gerrit Emanuel</i>	Mesoscale Modeling of Cohesive-Frictional Fracture Processes in Fiber-Reinforced Concrete <i>Gudžulić, Vladislav</i>
S04.01 (KI, M11.32)	A stabilization technique based on a Taylor series expansion for virtual elements <i>Pacolli, Njomza</i>	A scaled boundary finite element formulation for static and dynamic analysis of Reissner-Mindlin plates <i>Hellers, Anna</i>	Polyhedral elements based on scaled boundary parametrizations - a comparative study of semi-analytical vs IGA-based formulations <i>Pasupuleti, Ajay Kumar</i>	An enhanced approximate dual basis functions-based static condensation approach for a mixed isogeometric plate formulation <i>Dornisch, Wolfgang</i>	Reducing the Variational Index for a Hierarchic Family of Structural Formulations <i>Mitruka, Tarun</i>	Fully Nonlinear Analysis of Triangular Shell Elements for Thin-Walled Applications <i>Sousa, Cinthia Andreia G.</i>
S05.01 (KII, M17.22)	Quasiperiodic Motions - Theory, Methods, and Applications to Multi-harmonic Vibrations <i>Hetzler, Hartmut</i>		Continuation of periodic solutions in conservative systems leveraging the first integral of motion <i>Vogelei, Julian</i>	Koopman-Hill: A frequency-based stability method for periodic solutions with closed-form error bound <i>Bayer, Fabia</i>	An integrated approach for the computation of Floquet multipliers using the finite difference method <i>Seifert, Alexander</i>	Escaping Boundaries from Period-One Rotations in a Parametric Pendulum Harvester: The Role of Electrical Loading <i>Novelli, Nico</i>

	08:30	08:50	09:10	09:30	09:50	10:10
S06.2.01 (KI, M11.82)	From Aggregated Mesostructure to Macroscopic Acoustic Performance: A Multi-physics Modeling for Silica Aerogels <i>Xiong, Weibo</i>	Unique Determination of Elastic Material Parameters in Heterogeneous Materials using Mechanically Regularized Digital Volume Correlation and the Equilibrium Gap Method <i>Schmidt, Martin</i>	Estimating the elastic properties of Bio-concrete using a constitutive model for cementation <i>Wang, Yue</i>	Automated constitutive modeling of dielectric elastomer actuators (DEAs) <i>Amer, Gamal</i>	Consistent time discretization of thermoelastic constitutive models based on physics-augmented neural networks <i>Hartmann, Luis</i>	Microscopic mechanisms and constitutive modeling of strain softening and hardening in glassy polymers <i>Zhao, Wuyang</i>
S07.01 (KII, M17.02)	Partitioned Coupling for Multi-Field Problems – from Muscles to Subsurface <i>Schulte, Miriam</i>		A partitioned coupling approach for electromechanical simulations of skeletal muscles using preCICE <i>Homs-Pons, Carme</i>	A staggered coupling framework for the optimization of multiphysics problems <i>Kelemen, Máté</i>	A Two-way coupled simulation framework for the prediction of fire-induced damage and smoke propagation in a building <i>Palani, Arulnambi</i>	Time integration schemes for discrete electrothermo-elastic systems based on GENERIC <i>Reiff, Pit</i>
S08.01 (KI, M11.42)	Static Size Effects and Wave Scattering in Mechanical Metamaterials: A Relaxed Micromorphic Perspective <i>Sarhil, Mohammad</i>	Computational Homogenization and Data-Driven Constitutive Laws for Graded Architected Materials <i>Frey, Moritz</i>	A voxel-based homogenization framework for additive manufactured materials <i>Hellebrand, Sonja</i>	Computational investigation of anisotropic sand-binder microstructures <i>Jabs, Lukas</i>	Hybrid numerical framework for prototypical scalar linear PDE with rough coefficient <i>Balazi, Loïc</i>	
S14.01 (KII, M17.23)	Homogenization of a rate-independent delamination model with random geometry <i>Thomas, Marita</i>	Rate dependent dislocation dynamics and gradient flows of currents <i>Kampschulte, Malte</i>	Perturbed Minimizing Movements of Time-Dependent Functionals on Metric Spaces <i>Götzmann, Gianna</i>	The dynamic Schrödinger problem on metric graphs <i>Krautz, Juliane</i>	Hölder Regularity of Solutions to the Beckmann Problem with Quadratic Cost <i>Riedlinger, Tobias</i>	
S15.01 (KII, M17.21)	Shape optimization under uncertainty <i>Harbrecht, Helmut</i>		Trust-Region Bayesian Optimisation with Local-Global Competition <i>Van Dieren, Elliott</i>	Robust design optimization using semi-intrusive Taylor series approximations of different order <i>Kriegesmann, Benedikt</i>	Risk sharing and belief distributions in systems with uncertainty of physical properties and human actions <i>Pettersson, Per</i>	New formulation for process-based global sensitivity indices <i>Kohlhaas, Rebecca</i>
S18.01 (KI, M11.71)	On space-time analysis of parabolic problems on tensor product meshes <i>Löscher, Richard</i>	A Space-Time Finite Element Method for the Stokes System on Simplified Meshes <i>Kaltenbacher, Tobias</i>	Analysis of a Non-Symmetric Space-Time FEM-BEM Coupling for a Parabolic-Elliptic Transmission Problem <i>Of, Guenther</i>	Goal-Oriented Adaptivity and Multigrid Techniques for Flow Problems <i>Bruchhäuser, Marius Paul</i>	A Goal-Oriented Error Estimation Framework for Thermodynamic Topology Optimization using Adaptive Virtual Elements <i>Sellmann, Christian</i>	Anisotropic Goal Oriented hp-Adaptivity for Time-dependent Problems <i>Endtmayer, Bernhard</i>
S19.01 (KII, M17.92)	LQ optimal control for infinite-dimensional passive systems <i>Hastir, Anthony</i>	The dissipation inequality for infinite-dimensional systems <i>Reis, Timo</i>	Optimal control of a nonlinear kinetic Fokker-Planck equation <i>Breiten, Tobias</i>	Domain-uniform bounds in optimal control: Exponential decay of perturbations and efficient domain decomposition preconditioning <i>Oppeneiger, Benedikt</i>	Finite-Dimensional MOR-Based MPC for the 2D Navier-Stokes Equations <i>Sauer, Felix</i>	A port-Hamiltonian perspective on minimum cost network flow problems <i>Landwehr, Lina</i>

	08:30	08:50	09:10	09:30	09:50	10:10
S20.01 (KII, M17.17)	Cayley Based-Methods for Quantum Optimal Control Systems <i>Wembe, Boris</i>	Modelling and Implementation of Continuous Optimal Power Flow for Optimality-Tracking <i>Chen, Shuo</i>	Model Predictive Control for ergodic information acquisition in marine environment <i>Pisciolini, Caterina</i>	Dynamic Feed-Forward Model-Based Control of a Soft Robot Using Servo Constraints <i>Dielhenn, Jana</i>	Learning preferred paths in street graphs via weight identification <i>Paulus, Matthias Jochen</i>	Modelling and control of pressure-driven flow within compliant microfluidic capillaries <i>Ströhle, Timo</i>
S21.01 (KII, M17.16)	Optimal Transport-Based Image Processing with Applications in Watermark Recognition <i>Beinert, Robert</i>		Accounting for model inexactness in Magnetic Particle Imaging <i>Nitzsche, Marius</i>	A generalization bound for exit wave reconstruction via deep unfolding <i>Atwi, Moussa</i>	Subspace estimation from quantized samples <i>Maly, Johannes</i>	
S22.01 (KI, M11.91)	Differentiable PDE Solvers - A Shift of Paradigms for Numerical Simulations <i>Thuerey, Nils</i>		Domain Decomposition and Hybridization of PINNs for scalable neural network computing <i>Korolev, Denis</i>	Scalable Neural Network-Based Surrogate Models for Groundwater Heat Transport <i>Heinlein, Alexander</i>	Machine Learning Surrogate Modeling for Homogenization of Hyperelastic Materials with Boolean Microstructures <i>Brändel, Matthias</i>	Finite Operator Learning with Neural-Initialized Newton Solvers <i>Taghikhani, Kianoosh</i>
S25.01 (KII, M17.01)	Data analysis of architected structural geometries with persistent homology <i>Milor, Abel</i>	Does Double Descent Resolve the Accuracy-Complexity Trade-Off in the Offline Training of Data-Driven Turbulence Closure Models? <i>Mandler, Hannes</i>	First-order Optimization Methods for Functional Low-Rank Tensor Learning <i>Klug, Nikolas</i>	Riemannian Optimization on Tree Tensor Networks with Application in Machine Learning <i>Willner, Marius</i>	Certified Behavioral Coverage for Regression Neural Networks using Formal Methods <i>Akhiat, Yassine</i>	
S25.01.2 (KII, M17.52)	An Integrated MD-NN-FE Optimization Framework for Carbon Nanotube Based Metamaterials <i>Čanadija, Marko</i>	Optimised Random Forest classifier for fibre tracking in a fibre orientation process <i>Vaupel, Tim</i>	Combining Simulations and Experiments by a Data Fusion Approach: Image-Guided Analysis of Dislocation based Plasticity <i>Bender, Julian</i>	Material Fingerprinting: A rapid optimization-free approach to material model discovery <i>Martonová, Denisa</i>	Learning Microstructure-Property Relations in Foamed Concretes <i>Eimke, Laurenz</i>	
S26.01 (KI, M11.62)		Deformation of molecular systems using a dynamical reduced basis approach in combination with empirical interpolation to efficiently evaluate force fields <i>Reihn, Maximilian</i>	Generative AI for disordered Materials <i>Bachhav, Bhagyashri</i>	Efficient generation and explicit dimensionality of Lie group-equivariant and permutation-invariant bases <i>Zhang, Liwei</i>	A General and Minimally Empirical Implicit Solution Model from First Principles <i>Wittmann, Lukas</i>	Accurate continuum solvation for fast semi-empirical methods <i>Dahl, Robin</i>
S28.01 (KII, M17.71)	Dimensionality reduction of statistical inverse problems through pretraining <i>Jahn, Tim</i>		Gamma-convergence of Tikhonov functionals for nonlinear inverse problems <i>Schuster, Thomas</i>	The method of the approximate inverse for limited-angle computed tomography <i>Schmähl, Richard</i>	Learned RESESOP for solving inverse problems with inexact forward operator <i>Feinler, Mathias</i>	

11:00						
PL2 (KII, M17.01)	Modeling Damage with Nonlocal Approaches for Mesh-Objectivity - Time to Relax? <i>Balzani, Daniel</i>					
12:00						
PL3 (KII, M17.01)	Analysis of Multi-Fluid Models and Hydrodynamic Models of Congestion <i>Zatorska, Ewelina</i>					
14:00						
DFG-PP 2256 (KII, M17.25)	Qualitative and quantitative analysis of a T3 structure in linearized elasticity <i>Tribuzio, Antonio</i>	14:20	14:40	15:00	15:20	15:40
DFG-PP 2298 (KI, M11.82)	Adversarial Training as a Primal-Dual Problem <i>Schmitt, Lucas</i>	Unconstrained approximation of problems with pointwise constraints <i>Bartels, Soeren</i>	A Concept for the Coupling of Plasticity and Phase Transformation <i>Gammer, Florian</i>	Geometrically nonlinear Cosserat elasticity - How nonlinearities in the models PDEs influence regularity <i>Hüsken, Vanessa</i>	Towards Robust Data-Driven Inelasticity for Spatially Two-Dimensional Problems <i>Harnisch, Marius</i>	Discrete-to-Continuum Limits of the Wave Equation on Time-Dependent Domains <i>Correa, Santiago</i>
DFG-PP 2311 (KII, M17.12)	Simulation, Surrogate Modeling and Parameter Optimization for Skeletal Muscle Models <i>Klink, Marian</i>	Anisotropic self-attention dynamics emerging from transformers with layer normalization <i>Kabri, Samira</i>	Towards optimal control of ensembles of discrete-time dynamical systems <i>Fiedler, Christian</i>	Weakly Convex Ridge Regularization for Accelerated 3D Non-Cartesian Parallel MRI Reconstruction <i>Wache, German Shâma</i>	Sampling in high dimensions and optimal transport <i>Friesecke, Gero</i>	Bayesian Unlearning in Generalized Linear(ized) Models <i>Mucsányi, Bálint</i>
DFG-PP 2353 (KI, M11.71)	A soft pneumatic actuator design assistant - from task to design <i>Schindler, Leon</i>	Computational Modeling of Growth and Remodeling in Tissue-Engineered Biohybrid Cardiovascular Implants <i>Sesa, Mahmoud</i>	Extension of liver biomechanics framework for whole-body applications <i>Gerhäuser, Steffen</i>	Reaction-Diffusion-Transport Equations for Meniscus Regeneration Coupled with Biot's Equation <i>Hussein, Ahmad</i>	Generative Design of Acoustic Metamaterials Using Neural Operators <i>Dogu, Mert</i>	Nonlinear Model Predictive Control for a Lambda Robot based on Data-Driven surrogate model <i>Hajipour, Sanam</i>
DFG-PP 2410 (KII, M17.52)	On the Least Action Admissibility Principle in the Context of the Compressible Euler Equations <i>Pellhammer, Valentin</i>	Energy-variational framework: existence of solutions and selection criteria <i>Sliwinski, Marcel</i>	On the Design of Model Predictive Controllers for Nonholonomic Multibody Systems <i>Rosenfelder, Mario</i>	Indirect vs. Direct Methods for Periodic Trajectory Optimization in Legged Robots: Toward Co-Design Applications <i>Raff, Maximilian</i>	Shape Optimization of a Hydraulic Turbine Using Deep Reinforcement Learning <i>Eyselein, Simon</i>	Compressible Euler equations with Transport Noise <i>Boadi, Richard</i>
MS1 (KI, M11.32)	On the Algorithmic and Theoretical Path Towards Optimal Personalised Treatment <i>Hickl, Lisa</i>	Transporting Samples: ODE Flows, Importance Weights, and Higher-Order Methods <i>Klebanov, Ilja</i>	Efficient Amortized Bayesian Inference for Markov Random Fields via Gradient-Informed Grid Selection <i>Bazahica, Laura</i>	Non-linear stability of shock profiles in dissipative hyperbolic-hyperbolic systems <i>Sroczinski, Matthias</i>		
						contribution["presenter"]

	14:00	14:20	14:40	15:00	15:20	15:40
MS2 (KI, M11.42)	Gradient flows on metric graphs with reservoirs: Microscopic derivation and multiscale limits <i>Heinze, Georg</i>	Singular Limit Analysis of Training with Noise Injection <i>Schlichting, André</i>	The direction energy method in non-compact mean curvature flow <i>Rupp, Fabian</i>	Co-Moving Volumes and the Reynolds Transport Theorem for Two-Phase Flows <i>Bothe, Dieter</i>	Mean-Field Limit and fluctuation for systems with singular interaction <i>Chen, Li</i>	Hypocoercivity of non-equilibrium steady states (in kinetic theory) <i>Dietert, Helge</i>
MS3 (KI, M11.62)	Riemannian optimization for multicomponent Bose-Einstein condensates: algorithms and convergence analysis <i>Stykel, Tatjana</i>		Self-consistent field iterations in electronic structure <i>Levitt, Antoine</i>	Computable a posteriori error bounds for periodic Kohn-Sham equations <i>Stamm, Benjamin</i>		A geometric interpretation of (quantum) optimal transport <i>Borsoni, Thomas</i>
MS4 (KII, M17.01)	Koopman operator learning: error bounds and closed-loop control with guarantees <i>Worthmann, Karl</i>	Koopman-Schur decomposition for learning nonlinear dynamics <i>Drmac, Zlatko</i>	Operator Learning for Hyperbolic PDEs and its Applications in Weather and Climate Prediction <i>Bonev, Boris</i>	Randomized Nyström approximation of non-negative self-adjoint operators <i>Persson, David</i>	Rigorous Data-Driven Spectral Analysis of Nonlinear Dynamics <i>Colbrook, Matthew</i>	Rigorous Data-Driven Forecasts of Nonlinear Dynamics <i>Conradie, Gustav</i>
MS5 (KII, M17.02)	Material Testing 2.0 for Plasticity Model Calibration: Progress, Challenges, and the Road Ahead <i>COPPIETERS, SAM</i>		Energy absorption properties of different cellular materials <i>Weinberg, Kerstin</i>	Coupled infrared thermography and digital image correlation - assessment of temperature gradient and temperature velocity <i>Tröger, Jendrik-Alexander</i>	Crack paths in ferro-electrics: why established anisotropic deflection criteria have to fail <i>Ricoeur, Andreas</i>	Experimental Investigation and Modification of Meta-Materials for Energy Absorption Applications <i>Sharma, Prateek</i>
S28.02 (KII, M17.71)	Direct and inverse scattering problems in periodic media <i>Zhang, Ruming</i>		Locally-averaged McCormick relaxations for discretization-regularized inverse problems <i>Kaltenbacher, Barbara</i>	On Parameter Identification in Three-Dimensional Elasticity and Discretization with Physics-Informed Neural Networks <i>Höfler, Matthias</i>	Reducing stability questions for the fractional to the classical Calderón problem <i>Baers, Hendrik</i>	Adjoint-Based Optimization and Parameter Identification for a Volume Penalization Model of Porous Materials <i>Schubert, Yannick</i>

	16:00
Poster (Foyer, KII)	A modular finite element framework for hydrogen-induced ductile damage <i>Patil, Siddhi Avinash</i>
	A new approach to stable peridynamics <i>Partmann, Kai</i>
	A unifying view on constitutive model calibration <i>Tröger, Jendrik-Alexander</i>
	Adaptive Finite Element Methods for the model-qualification of 2D auxetic structures <i>Brodbeck, Maximilian</i>
	Reduced-Order Modeling of Oscillator Networks: Capturing Nonlinear Dynamics and Heterogeneity of Cluster Sizes <i>Geier, Charlotte</i>
	Structure-preserving discretization schemes for dissipative nonlinear systems <i>Karsai, Attila</i>

16:00

Curvature-driven pattern formation in biomembranes: A gradient flow approach

Pešić, Anastasija

Mullins softening with neural network constitutive models

Klein, Dominik K.

Multiscale limits of gradient flows

Heinze, Georg

Optimal control of an anisotropic electrolyte

Plato, Luisa

Performance analysis of stochastic model predictive control

Schießl, Jonas

Port-Hamiltonian Cosserat rod dynamics

Kinon, Philipp L.

Return point memory in knitted fabrics

Hellebrand, Sonja

Implementation of kinetic diffusion Monte Carlo in Eiron

Løvbak, Emil

Strong simulations for strong magnetis

Vorwerk, Maximilian

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	16:30	16:50	17:10	17:30	17:50	18:10
S02.02 (KII, M17.12)	Understanding the poro-viscoelastic nature of soft biological tissues through the lens of tofu <i>Kuhl, Ellen</i>		Towards reliable poro-viscoelastic parameter identification with applications to human brain tissue and human meniscus <i>Greiner, Alexander</i>	Modelling layer- and fiber-dependent diffusion processes of extracellular vesicles in human meniscus tissue <i>Nonnenmacher, Theo</i>	An integrated tensile bioreactor-microscopy platform for time-series observation of human articular chondrocytes under mechanical loading <i>Lee, Hyun</i>	Parameter study of a structure to promote stiffness-driven stem cell differentiation <i>Zerhusen, Lisa</i>
S03.02 (KII, M17.74)	Phase-field modeling of hydrogen-promoted ductile-to-brittle transition fracture: A chemical potential-based approach <i>Diddige, Vikas</i>		A Monolithic Scheme Coupling Chemo-Mechanics and the Non-Local Gurson-Tvergaard-Needleman Model for Hydrogen-Enhanced Ductile Damage <i>Patil, Siddhi Avinash</i>	A New Take on Sharp Cracks in Brittle Dielectrics: Where Electric Dipole Layers Meet Concentrated Line Forces <i>Behlen, Lennart</i>	Crack Propagation in Superelastic Shape Memory Alloy-Based Elastocaloric Materials <i>Grupp, Tim</i>	Computationally efficient phase field models of fracture based on novel monolithic arc-length methods <i>Rörentrop, Felix</i>
S04.02 (KI, M11.32)	Data-based estimation of the critical time step size for explicit time integration in dynamics <i>Bischoff, Manfred</i>	Determination of the mass moment of inertia by surface integration <i>Hartmann, Stefan</i>	On theoretical aspects of intrinsically selective mass scaling for thin-walled structures <i>Reinhart, Sven</i>	On efficiency, accuracy and robustness of selective mass scaling methods for thin solid and solid-shell elements <i>Oesterle, Bastian</i>	Active Learning-Based Experimental Design for Nonlinear Structural Dynamics Using Physics-Guided Neural Networks <i>Shine, Yadukrishnan</i>	A Residual-Based Variational Approach to Global and Goal-Oriented Re-analysis <i>Materna, Daniel</i>

	16:30	16:50	17:10	17:30	17:50	18:10
S05.02 (KII, M17.22)	Nonlinear Modeling from Experimental Data via Spectral Submanifold Reduction <i>Haller, George</i>		Data-Driven Reduced-Order Modeling of Systems with Memory via Spectral Submanifolds <i>Bettini, Leonardo</i>	Exact Principal Koopman Eigenfunctions of a Pendulum <i>Römer, Ulrich J.</i>	Learning Duffing-Type Forces for the Harmonic Balance Method Using Neural Networks <i>Goldack, Miriam</i>	
S06.2.02 (KI, M11.82)	A comparative study of DCDC and SENB tests for Mode I fracture characterization of polymers <i>Diani, Julie</i>		Rate-Dependent Damage and Failure in Rubberlike Polymers: Characterization via a Gradient-Extended Thermomechanical Model at Finite Strains <i>Bögershausen, Skadi</i>	Viscoelastic Modeling of Glacier Ice <i>Sartorius, Jana</i>	Multiscale Characterization and Modeling of statistically inhomogeneous Moso Bamboo <i>Speichinger, Lukas</i>	Fractional Modeling of Moisture-Dependent Viscoelastic Behavior in Thermoplastic Polymers <i>Fausser, Dominik</i>
S07.02 (KII, M17.02)	Magnetic elastomers - coupling magnetic and mechanical interactions <i>Menzel, Andreas M.</i>		Constitutive modeling and finite element simulation of soft anisotropic magnetoactive elastomers <i>Yazdandousthamedani, Alireza</i>	A data-driven multiscale scheme for anisotropic finite strain magnetoelasticity <i>Roth, Heinrich T.</i>	A multi-field FE analysis of Heusler alloys: computational materials under thermo-magneto-mechanical stimuli <i>Alaeddini, Mobina</i>	Modeling of losses in piezoceramics <i>Sutter, Felix</i>
S08.02 (KI, M11.42)	Multiscale Modeling of Damage in Thermoplastic Fiber Composites for Lightweight Structural Applications <i>Simon, Jaan-Willem</i>		Homogenization of short fiber reinforced thermoplastics with uncertain input parameters <i>Hauschel, Vanessa</i>	Evaluating the benefits of the subsampling approach to stochastic homogenization for industrial composites <i>Sentler, Tim</i>	Computational homogenization based on adaptive laminates <i>Kurzeja, Patrick</i>	A Temperature-Dependent Mean-Field Modeling Framework Incorporating Damage Evolution for CFRP Machining Processes <i>Zhan, Yingjie</i>
S14.02 (KII, M17.23)	Homogenization of nonlocal exchange energies in micromagnetics <i>Schönberger, Hidde</i>	Variational derivation of membrane models from three-dimensional anisotropic nonlocal hyperelasticity <i>Engl, Dominik</i>	A general compactness result for localization of nonlocal gradients <i>Seifert, Felix</i>	Peridynamic Modeling of Process-Dependent Material Strength in Additive Manufacturing <i>Willberg, Christian</i>	Periodicity in the Double Gradient Model for Phase Transitions <i>Deutsch, Jakob</i>	
S15.02 (KII, M17.21)	An adaptive sparse Galerkin FEM for the log-transformed diffusion problem <i>Eigel, Martin</i>	Gevrey regularity for log-normal diffusion problem with non-linear parameterization <i>Lê, Tùng</i>	Uncertainty Quantification for Nonlocal Traffic Flow using stochastic Galerkin approximations <i>Ziegler, Fabian</i>	Surrogate Based Uncertainty Quantification for Large-Scale Vibroacoustics <i>Eßling, Robin</i>	Stochastic modeling of local variations in packaging paper via spatial random fields <i>Pfeifer, Jan Mirco</i>	
S18.02 (KI, M11.71)	A Cut Finite Element Method for Fully Eulerian Fluid-Structure Interaction <i>Frei, Stefan</i>	A linear fluid-structure interaction problem using CutFEM: Numerical Analysis <i>Wenske, Anne-Kathrin</i>	Homogenization and XFEM for Interface-resolved Diffusion in Complex 3D Microstructures <i>Pudersch, Janna</i>	Stabilized finite element methods for incompressible (Navier-)Stokes flows on a family of curved surfaces <i>Kaiser, Michael Wolfgang</i>	Phase-Field Model for Nonisothermal Melt Flow: Structure-Preserving Approximation <i>Brunk, Aaron</i>	Parameter-robust unfitted finite element methods for a Maxwell interface problem <i>Haubold, Tim</i>

	16:30	16:50	17:10	17:30	17:50	18:10
S19.02 (KII, M17.92)	Optimization and control of differential equations under uncertainty <i>Guth, Philipp A.</i>		Multilevel Stochastic Gradient Descent for Risk-Averse PDE Constraint Optimization <i>Schneiderhan, David</i>	Risk averse Kalman filters for systems subject to parametric uncertainties <i>Schröder, Jesper</i>	Towards Robust PDE-Constrained Optimization via Polynomial Chaos Expansion with applications in fiber-spinning <i>Witt, Jakob Paulo</i>	
S20.02 (KII, M17.17)	Towards real-time model predictive control of nonsmooth dynamical systems <i>Nurkanovic, Armin</i>		Optimality and Robustness in Path-Planning Under Initial Uncertainty <i>Vladimirsky, Alexander</i>	LPV Updates for Sequentially Linearized Moving Horizon Estimation of Nonlinear Systems <i>Ji, Jiaxin</i>	Stability of stochastic economic MPC - Stochastic characterization of the closed-loop asymptotics <i>Schießl, Jonas</i>	On the Design of Terminal Ingredients in Periodic Model Predictive Path-Following <i>Abou-Taleb, Mohamed</i>
S21.02 (KII, M17.16)	Adjoint mismatch in imaging problems <i>Lorenz, Dirk</i>	Diffeomorphism-Equivariant Neural Networks <i>Oettinger, Josephine Elisabeth</i>	Hilbert Transform Pairs of Wavelets <i>Proell, Moritz</i>	Analysis for Conformal Prediction Methods on Set Estimation Problems <i>Jian, Xingchao</i>		
S22.02 (KI, M11.91)	What is an RSE, and what is the community doing? <i>Thiele, Jan Philipp</i>	MathModDB: A Database for Mathematical Models <i>Fiedler, Jochen</i>	Extensible data and algorithm dispatch for flexible benchmarking in applied mathematics and mechanics <i>Saak, Jens</i>	MaRDMO: FAIR Documentation of In-Silico Research <i>Reidelbach, Marco</i>	Software package MaRDI Open Interfaces for increased interoperability in computational science <i>Kabanov, Dmitry</i>	
S25.02 (KII, M17.01)	Data-intrinsic approximation in metric spaces <i>Dölz, Jürgen</i>	Reducing parametric problems with discontinuities using deep learning <i>Chheda, Viral Paresh</i>	Neural enrichment finite element method: A hybrid method for problems with strong oscillations or discontinuities <i>Guo, Shihan</i>	Data-driven reduced-order modeling for controlling dynamically-operated Power-to-X reactors <i>Gosea, Ion Victor</i>	Physics based machine learning framework for cyclic damage evolution and fatigue lifetime-scale homogenization <i>Baktheer, Abedulgader</i>	
S25.02.2 (KII, M17.52)	Neural Networks for Non-Convex Anisotropic Inelasticity at Finite Strains <i>Holthusen, Hagen</i>	Incremental (Contact) Approaches in Energy-Based Physics-Informed Neural Networks Using an Augmented Lagrangian Method <i>Völkl, Simon</i>	Physics-Augmented Surrogate Modelling for Multiscale Simulation of Battery Cells under Mechanical Abuse <i>Dhumal, Harshwardhan</i>	On Necessary and Sufficient Criteria for Compressible and Incompressible Polyconvex Hyperelastic Neural Network Material Models <i>Geuken, Gian-Luca</i>	Training of viscoelastic physics-augmented neural networks via full-field data <i>Riemer, Brain M.</i>	Automated Finite Element Modeling of Anisotropic Viscoelasticity with Constitutive Artificial Neural Networks (vCANNs) <i>Abdolazizi, Kian P.</i>
S26.02 (KI, M11.62)	Estimating Finite-Size Effects in Molecular Simulations <i>Reible, Benedikt</i>	The narrow escape problem <i>Carillo, Louis</i>	Sampling equilibrium states via normalizing flow approximation of transport maps <i>Rehman, Zia Ur</i>	Entropic Transfer Operators <i>Stier, Thilo D.</i>	An O(logN) Kinetic Monte Carlo Algorithm for Transport Simulation with Long-Range Interactions <i>Bat-Erdene, Bat-Amgalan</i>	

Wednesday, March 18

	08:30	08:50	09:10
S02.03 (KII, M17.12)	Rheological Micromechanics-Based Modeling of Human Blood as an Anisotropic Effective Medium <i>Massing, Florian</i>	Exploring Atherosclerotic Plaque Progression Using a Graph-Derived Mechanochemical Framework <i>Marino, Michele</i>	A simple mechanical model of stent-vessel interaction <i>Tambača, Josip</i>
S04.03 (KI, M11.32)	Nonlinear analysis of steel-concrete composite beams with steel connectors and/or adhesive bonding <i>Kuczma, Mieczysław</i>	Comparison of numerical simulation using Particle finite element method and experiments of Polymeric composite structures <i>Kadam, Paras</i>	A Generalized Computational Framework for Shake-down Analysis of Orthotropic Materials <i>Vafadari, Reza</i>
S05.03 (KII, M17.22)	Violoncello string vibrations as an example of continuum dynamics <i>von Wagner, Utz</i>	Transient Simulation of elastic foil structures in bump-foil bearings <i>Schmidtchen, Fabian</i>	Self-Heating of Rubber Elements in Vibration Absorber Systems <i>Niksirat, Esmat</i>
S07.03 (KII, M17.02)	Cosserat micropolar flexomagnetism at finite strains <i>Sky, Adam</i>	Micromagnetic simulations based on the magnetic Gauss and Ampère's law <i>Vorwerk, Maximilian</i>	A micromagnetic simulation of zigzag domain wall formation <i>Yılmaz, Çağlar</i>
S08.03 (KI, M11.42)	Real-time multiscale exploration of grain boundary effects on diffusion in solid electrolytes <i>Scholz, Lena</i>	Time Homogenization of Nonlinear Mechanically-Coupled Phase Evolution Based on Low-Pass Convolution <i>von Oertzen, Vincent</i>	Multiscale Simulation of Porous Materials Using FE-FFT Homogenization <i>Dahler, Julian</i>
S15.03 (KII, M17.21)	Prioritising Barriers to Sustainable Humanitarian Logistics Operations Using the Fuzzy Best-Worst Method: Evidence from NGOs Operating in Gaziantep, Türkiye <i>Özceylan, Ayca</i>	Quantifying Model Form Uncertainty, Influence and Separability in Data-driven Calibration of Tendon Break Models <i>Andrés Arcones, Daniel</i>	Simulation of thermo-viscoelastic structures under material uncertainties using Time-separated Stochastic Mechanics <i>Müller, Christian</i>
S16.01 (KII, M17.81)	Numerical Approaches to Regularized Nonlinear Programming <i>De Marchi, Alberto</i>	Input-to-state stability of Newton-type nonlinear optimization algorithms <i>Cunis, Torbjørn</i>	Unconstrained optimization of polyconvex functionals <i>Fehling, Marc</i>
S18.03 (KI, M11.71)	A certified reduced order model for parabolic equations based on a least-squares space time formulation <i>Hinze, Michael</i>	A Greedy Residual-Based Method for Kernel Collocation of Nonlinear PDEs <i>Bacchetta, Milan</i>	Least-Squares methods for eigenvalue problems <i>Bertrand, Fleurianne</i>

	08:30	08:50	09:10
S19.03 (KII, M17.92)	Recovery of the optimal control value function in reproducing kernel Hilbert spaces from verification conditions <i>Ehring, Tobias</i>	On Koopman operators for time dependent systems <i>Winterhager, Tobias</i>	Machine learning methods with a posteriori error analysis for an optimal control problem <i>Vossen, Georg</i>
S20.03 (KII, M17.17)	On the Expectation Values of the Structural Index of Low-Dimensional Random Structure Matrices <i>Röbenack, Klaus</i>	Space-Time Finite Element Method for the Inverse Dynamics of Flexible Structures <i>May, Marvin</i>	
S21.03 (KII, M17.16)	Atomic Gradient Flows: Gradient flows on sparse representations <i>Carioni, Marcello</i>	Multilevel Bregman Proximal Gradient Descent <i>Elshiaty, Yara</i>	Multilevel Optimization on Ellipsoidal Manifolds with Applications <i>Vanmaele, Ferdinand-Joseph</i>
S25.03 (KII, M17.01)	Reconfigurable computing in neural network-enhanced finite element analysis in structural dynamics <i>Polydoros, Vasileios</i>	On Learning Gaussian Sobolev Operators with Near-Optimal Sample Complexity <i>Maier, Gregor</i>	Generative material design with variational auto-encoders and hyperelastic neural network constitutive models <i>Weeger, Oliver</i>
S26.03 (KI, M11.62)	Metric-based nonlinear model order reduction with applications to quantum chemistry <i>Dusson, Geneviève</i>		Model Order Reduction for Parametric Hermitian Eigenvalue Problems: Local Acceleration with Taylor-Reduced Basis Method <i>Zeng, Zhuoyao</i>

	09:30
Poster (Foyer, KII)	This poster session will display the same posters as listed in the poster session on Tuesday

	10:00	10:30	11:00
RvML (KII, M17.01)	Nonlinear interactions of near-wall turbulence <i>Bae, Jane</i>	Material Modeling with Neural Networks: Concepts for Enforcing Physics by Construction <i>Kalina, Karl</i>	Numerical methods for hyperbolic multi-scale systems of continuum mechanics <i>Thomann, Andrea</i>

	14:00	14:20	14:40	15:00	15:20	15:40
S02.04 (KII, M17.12)	Large-Strain Testing and Characterization of Brain Organoids <i>Scherm, Philipp</i>	Mechanical Characterization of Brain Tissue Under Varied Environmental Conditions <i>Zhang, Hanwen</i>	On direction-dependent behavior of brain tissue <i>Reiter, Nina</i>	Modelling Brain Tissue Damage under Compressive Loading <i>Goedhals, Jaime</i>	Viscoelastic characterization of porcine brain tissue in the time and high-frequency domain <i>Ruhland, Laura</i>	

	14:00	14:20	14:40	15:00	15:20	15:40
S03.03 (KII, M17.74)	A model for mode partitioning: Identifying the mixed-mode fracture toughness for weak snow layers <i>Rheinschmidt, Florian</i>	Fracture and calving front evolution: A case study of Fimbul Ice Shelf, Antarctica <i>Humbert, Angelika</i>	On the influence of spin up simulations on fracture in ice shelves <i>Sondershaus, Rabea</i>	Fracture Phase-Field Modeling of Supraglacial Lake Drainage and Marine Ice Cliff Instability <i>Schmidt, Konstantin</i>	On the Computation of Crack Surface Normals in the Framework of the Phase-Field Model of Hydraulic Fracturing <i>Gupte, Anuj</i>	Crack Surface Normal Computation via Clustering and Ridge Regression to Model Hydraulic Fracture <i>Marulkar, Vedant Satish</i>
S04.04 (KI, M11.32)	A fully nonlinear space-time finite element formulation for geometrically exact beams <i>Steinbrecher, Ivo</i>	Transitioning from 3D solid to classical beam kinematics <i>Klarmann, Simon</i>	On the simultaneous analysis of Kirchhoff beams embedded in a two-dimensional bulk domain <i>Neumeyer, Jonas</i>	Formulation and verification of multi-point constraints to enforce beam kinematics in volumetric FE-simulations of beam-like structures <i>Boungard, Jonas</i>	Multiscale modelling of hyperelastic shell structures with physics-augmented neural network constitutive models <i>Schommartz, Jasper O.</i>	Modelling of sparse lightweight composite designs using a geometrically discontinuous approach <i>Kühner, Paul T.</i>
S05.04 (KII, M17.22)	Mechanics of the golf lip out, including the golf balls of death <i>Hogan, Stephen John</i>	Numerical bifurcation analysis of nonsmooth periodic solutions <i>Wagemakers, Lara</i>	Oscillations of a moving bandsaw blade in a narrow lubricated gap <i>Steindl, Alois</i>	Prediction of Crater Formation in Impact Energy Scatterers <i>Madhikarmi, Krishnaa</i>	Influence of permeability and thickness of the porous layer in the porous air bearing on stability and load-bearing capacity <i>Stellmach, Laurenz</i>	An Efficient Rotordynamic Model for Investigating Slow and Heavy Flywheel Energy Storage Systems <i>Juwailes, Yousef</i>
S06.1.01 (KI, M11.82)	Computational Chemo-Mechanics with Application to High-Temperature Materials <i>Kiefer, Björn</i>		A thermodynamically consistent large-strain framework for microstructure-informed thermomechanical processing <i>Böddecker, Merlin</i>	Simulation of High-Pressure-Torsion within the Material-Point-Method using Periodic Boundary Conditions <i>Cloidt, Dominik-Oliver</i>	Arbitrary Lagrangian-Eulerian formulation in a rotating frame to model friction spinning <i>Friedlein, Johannes</i>	Full-field identification of the Taylor-Quinney factor in copper tensile tests via in-situ infrared thermography <i>Lalovic, Nikola</i>
S07.04 (KII, M17.02)	Modeling and Numerical Simulations of Space-Time Non-Newtonian Fluids with Internal Variables <i>Wick, Thomas</i>	Modeling of actively forced close-contact melting in latent heat storage systems for performance evaluation <i>Bünning, Jonas</i>	Coupled Multi-X Modeling in Sea Ice Dynamics <i>Pathak, Raghav</i>	Towards modelling of the friction coefficient in wet grinding processes <i>Thunich, Paul</i>	Simulation and validation of an solvent-based CO2 capture process <i>Verma, Rakhi</i>	Modeling of constrained thin films in hydrogen environment <i>Gisy, Johannes</i>
S08.04 (KI, M11.42)	X-ray Computed Tomography and Convolutional Neural Network-Driven Multiscale Characterization of Glass Fiber Composites <i>Bab, Yonca</i>	Data-driven Inverse Design and Surrogate Modeling of Spinodoid Architected Materials <i>Otto, Alexandra</i>	A Mesh-Based Shallow Energy Method (M-SEM) for highly accurate and robust simulation of heterogeneous composites <i>Wichmann, Pius J.M.</i>	Surrogate elements for nonlinear microstructures using physics-augmented machine learning <i>Li, Wei</i>	A Deep Learning-Enhanced Continuum Micromechanics Framework for Nonlinear Homogenization of Composites with Nonellipsoidal Inclusions Geometries <i>Schwaighofer, Michael</i>	A software framework for model adaptivity in mechanical multiscale coupled problems <i>Hocks, Alex</i>

	14:00	14:20	14:40	15:00	15:20	15:40
S10.01 (KII, M17.72)	Passive Scalar Intermittency at High-Reynolds Numbers : A first Perspective from ODT <i>Klein, Marten</i>	Influence of Spanwise Curvature and Thermal Boundary Conditions on Heat Transfer in Turbulent Annular Pipes <i>Tsai, Pei-Yun</i>	Heat transfer enhancement by surface roughness in impinging jets <i>Elsner, Ferdinand</i>	Small-scale statistics and structures in compressible homogeneous isotropic turbulence <i>Schumacher, Jörg</i>		
S14.03 (KII, M17.23)	On the validity of amplitude equations for systems with noise <i>Schneider, Guido</i>	On the Ginzburg-Landau approximation for quasi-linear pattern forming reaction-diffusion-advection systems <i>Belin, Théo</i>	Justification of the Non-linear Schrödinger and the Davey-Stewartson Approximation for the Three-Dimensional Water Wave Problem With and Without Surface Tension <i>Schewe, Franz</i>	Time-asymptotic Self-similarity of the Damped Euler Equations in Parabolic Scaling Variables <i>Schindler, Stefanie</i>	A relative energy inequality for an anisotropic Navier-Stokes-Nernst-Planck system weak-strong uniqueness and a posteriori error estimates <i>Plato, Luisa</i>	
S15.04 (KII, M17.21)	Filtering with Randomised Observations: Sequential Learning of Relevant Subspace Properties and Accuracy Analysis <i>de Wiljes, Jana</i>		Numerical Inference for the Porous Medium Equation <i>Blessing, Lea</i>	Low-rank approximations for linear Gaussian inverse problems in infinite dimensions <i>Carere, Giuseppe</i>	Bayesian estimation of multiphase properties from images of holes in liquid films <i>Bonart, Henning</i>	Nonasymptotic subsampling rate identification for parameter estimation of SDEs in multiscale scenarios <i>Trollidenier, Felipe</i>
S16.02 (KII, M17.81)			Two-Echelon Multi-Compartment Vehicle Routing Problem With Facility Location <i>Özceylan, Eren</i>	Residual Simplex method for solving large-scale linear programming problems <i>Vanroose, Wim</i>	A Framework for the Solution of Tree-Coupled Saddle-Point Systems <i>Hansknecht, Christoph</i>	
S18.04 (KI, M11.71)	Pressure robustness for incompressible fluid flow with inhomogeneous Dirichlet boundary conditions <i>Tscherpel, Tabea</i>		Adaptive Mixed Finite Element Method for Stress-Based Formulations of Eigenvalue Problems <i>Dağlı, Tugay</i>	Analysis and Numerical Simulations for Coupled Flow-Temperature Models <i>Ziehm, Antonia</i>	Gradient-robust flow modeling in the context of energy transfer <i>Neutsch, Constanze</i>	Finite element error estimates for the approximate computation of normal derivatives <i>Steinbach, Olaf</i>
S19.04 (KII, M17.92)	Shape optimization problems with non-smooth PDE constraints: Sensitivity analysis and optimality conditions <i>Betz, Livia</i>		Long-time behavior of solutions to shape optimization problems via phase-field methods <i>Kahle, Christian</i>	The impact of the discretization on shape and topological sensitivities <i>Gfrerer, Michael</i>	Optimal Design of Kirchhoff-Love Plates Using Shape Derivatives and Homogenization <i>Kunštek, Petar</i>	Classical Optimal Designs for Stationary Diffusion with Multiple Phases <i>Vrdoljak, Marko</i>
S20.04 (KII, M17.17)	Structure, Analysis, and Synthesis of First-Order Algorithms <i>Miller, Jared</i>	Asymptotic behaviour of coupled random dynamical systems with multiscale aspects <i>Staudigl, Mathias</i>	A Stochastic Gradient Descent Approach to Design Policy Gradient Methods for LQR <i>Song, Bowen</i>	Stability of Time-Varying Receding Horizon Games <i>Erzin, Alexander Casper</i>	Learning provably bounded polynomial ODEs from data <i>Fantuzzi, Giovanni</i>	
S21.04 (KII, M17.16)	Generative Assignment Flows for Discrete Structured Data <i>Petra, Stefania</i>		Neural network parametrized level sets for image segmentation <i>Vu, Thi Lan Nhi</i>	Prior Knowledge-Based Analysis of Atomic Resolution Image Data <i>Baum, Annika</i>	Geometrical and statistical Mumford-Shah models for hyperspectral image segmentation <i>Conrad, Fabian</i>	

	14:00	14:20	14:40	15:00	15:20	15:40
S22.03 (KI, M11.91)	A simple and general framework for the construction of exactly div-rot-grad compatible discontinuous Galerkin finite element schemes on unstructured simplex meshes <i>Dumbser, Michael</i>		An Entropy Stable Discontinuous Galerkin Spectral Element Method on Heterogeneous Grids <i>Keim, Jens</i>	Energy stability and conservation properties of the Domain of Dependence stabilization on two dimensional cut cell meshes <i>Birke, Gunnar</i>	A data-driven approach to cut-cell quadrature using spline interpolation <i>Mika, Michał</i>	Lattice Boltzmann Method for solids: high-performance 3D elastodynamics solver using NVIDIA Warp <i>Weverbergh, Julie</i>
S25.04 (KII, M17.01)	Sparse Training of Neural Networks based on Multilevel Mirror Descent <i>Lunk, Yannick</i>	Error bounds for numerical integration in the context of neural network based modelling <i>Mest, Felix</i>	Regression model for a sensor-integrating jaw coupling that compensates for hyper-viscoelastic material behavior. <i>Menning, Johannes Dieter Martin</i>	Multi-Headed Transformer Architectures as Time-dependent Wasserstein Gradient Flows <i>Del Grande, Leonardo</i>	Machine Learning Based Virtual Sensor for the Shaft Torque during Helicopter Flight: Definition, Optimization and Uncertainty Analysis <i>Kajolli, Jonida</i>	Multi-Fidelity CNN-Based Error Correction for Fast Thermal Runaway Prediction in High Voltage Battery Packs <i>Ignatius, Anish Hilary</i>
S25.04.2 (KII, M17.52)	Automating constitutive modeling with LLMs <i>Tacke, Marius</i>	Strategies to scale deep material networks for multiscale simulations of fiber reinforced composites <i>Bhat Keelanje Srinivas, Pavan</i>	A physics-enhanced deep learning surrogate framework for elastoplastic material models <i>Arora, Rishabh</i>	A precise, efficient and flexible neural network model for strain-crystallizing rubber <i>Friedrichs, Konrad</i>	Inelastic Constitutive Kolmogorov-Arnold Networks: A Generalized Framework for Automated Discovery of Interpretable Inelastic Material Models <i>Ji, Chenyi</i>	
S26.04 (KI, M11.62)	Algorithmic differentiation for plane-wave DFT: materials design, error control and learning model parameters <i>Herbst, Michael</i>		Data-Driven Spectral Prediction for Accelerating Large-Scale Electronic Structure Calculations <i>Ramirez-Hidalgo, Gustavo</i>	CDFCI: High-Performance Parallel Software for Large-Scale Many-Body Eigenvalue Problems <i>Zhang, Yuejia</i>	DiagLib: an Open-Source, Matrix-Free, Iterative Eigensolver <i>Nottoli, Tommaso</i>	
S28.03 (KII, M17.71)	A supervised learning approach for full-field based non-iterative parameter identification <i>Brabender, Samuel</i>	Context-Aware Deep Reinforcement Learning for Adaptive Material Topology Optimization <i>Würz, Valentin</i>	Generative Design with Uncertainty Based Abstention using Diagonal Flow Matching <i>de Campos, Miguel</i>	On an Analytical Inversion Formula for the Modulo Radon Transform <i>Beckmann, Matthias</i>	Sparsity-Driven Source Localization for Tomographic Contaminant Sensing <i>Mattuschka, Marco</i>	

	16:00
Poster (Foyer, KII)	This poster session will display the same posters as listed in the poster session on Tuesday

	16:30	16:50	17:10	17:30	17:50	18:10
S01.01 (KII, M17.51)	AI-Driven Generation and Assessment of Flexible Multi-body Systems <i>Gerstmayr, Johannes</i>		Integration of a non-linear material model for filled elastomers in multi-body simulations of highly dynamic systems <i>Niemeyer, Mascha</i>	A Mixed Discrete Cosserat Rod Formulation <i>Dai, Tianxiang</i>	Structure-preserving discretization of Cosserat rod dynamics in a mixed DAE-framework <i>Kinon, Philipp L.</i>	Structure-preserving time integration of complex multibody dynamics in a port-Hamiltonian framework <i>Latussek, Lisa</i>
S02.05 (KII, M17.12)	A Novel Model of Median Nerve Biomechanics and Electrophysiology in the Context of Carpal Tunnel Syndrome <i>Rittelmann, Jana</i>	Multiphysics model for the Agonist-Antagonist Myoneural Interface (AMI) integrating Continuum Mechanics and neural feedback organs <i>Villota-Narvaez, Yesid</i>	Revisiting active skeletal muscle tissue: An inherently-stable, continuum-mechanical constitutive formulation with history dependence <i>Bleiler, Christian</i>	A Simulation Framework for Force Transmission in the Muscle Fiber-Endomysium System <i>Doreti, Lalith Kumar</i>	Multi-phase field approach to modeling the fracture behaviour of smooth muscle tissues <i>Deo, Rohan Hemant</i>	A computational model to rationalize endothelial damage under acute loads <i>Ehret, Alexander E.</i>
S03.04 (KII, M17.74)	Modelling of fatigue crack propagation in ductile materials under non-proportional loading conditions <i>Tsakmakis, Aris</i>		Phase field modeling of thermal fatigue in ductile materials <i>Gao, Hanghang</i>	Advances in High-Cycle-Fatigue Modeling - Utilizing the Endurance Surface Continuum Damage Model <i>Feike, Klas</i>	Microscopic crack propagation caused by high-cycle loading in reused reinforcing steels <i>Miska, Niklas</i>	Phase-field modeling of time-dependent fatigue in hydrogels <i>Wei, Yujie</i>
S04.05 (KI, M11.32)	Iterative beam fitting with a static mesoscale projection for auxetic lattice structures <i>Grünfelder, Nicolas</i>	Thermo-Mechanical Optimisation of Dental Implant Drills via Geometrically Optimised Auxetic Mesostructures <i>Dieckgraeff, Benjamin</i>	Efficient Beam-Based Simulation of Thermo-Electro-Elastic Lattice Structures <i>Alzate Cobo, Juan C.</i>	Investigation of Geometrically and Materially Induced Artificial Instabilities in Mixed Nonlinear Finite Element Formulations <i>Jakob, Henrik</i>	Tubular interlockings with internal and external sinusoidal shaping: geometric influence on performance <i>Weiß, Meike</i>	Investigation of forming forces and energy dissipation rate in steady-state elastic-plastic bending of an axially moving beam <i>Ramsauer, Stefan</i>
S06.2.03 (KI, M11.82)	Modelling functionally graded 4D Printing Materials <i>Hembrock, Henrik</i>	Numerical Modeling and Experimental Full-Field Validation of Non-Planar 3D-Printed Components <i>Ewougsi Tekeu, Christian-Lionel</i>	Viscoplastic modeling of shotcrete 3D printing material <i>La, Quoc Tuan</i>	Phase field crystal model of out-of-plane deformations in thin crystalline sheets induced by thermal expansion <i>Radice, Emma</i>	About the complex Poisson's ratio in linear viscoelasticity <i>Steeb, Holger</i>	Mullins softening with neural network constitutive models <i>Klein, Dominik K.</i>
S07.05 (KII, M17.52)	Continuum-Thermodynamic Formulation of Phase-Field Models Using Internal State Variables <i>Prahs, Andreas</i>	A Thermomechanically Coupled Model including Latent Heat based on a Multiphase-Field Approach <i>Hu, Binzi</i>	Multi-Dimensional Phase-Field Modeling of Chromium Oxidation with Realistic Thermodynamic and Kinetic Parameters <i>Löps, Paul</i>	Continuous modeling of the anodic material dissolution in electrochemical machining using a phase field approach <i>Schmidt, Annika</i>	Coupled phase-field-mechanical modeling of solid-state sintering <i>Ivannikov, Vladimir</i>	A phase-field model for the evolution of shape and chemical composition of volcanic olivine crystals <i>Haddenhorst, Hendrik Holger</i>
S07.05.02 (KII, M17.02)	Variational formulations for the dynamics of fluid-saturated porous media <i>Khurshid, Hamza</i>	Existence and Numerical Methods for Coupled Degenerate Darcy Flow <i>Ray, Nadja</i>	Performance of a mixed least-squares finite element formulation with application in poroelasticity <i>Hegde, Manu</i>	Steady vibration problems in the coupled theory of Moore-Gibson-Thompson thermoporoelasticity <i>Svanadze, Merab</i>	The influence of liquid-gas mixture compressibility on Natural Hydraulic Fracturing processes <i>Rivas, Yann</i>	A porous media approach for multiphysics modeling of proton exchange membrane water electrolysis components <i>Antonini, Alberto</i>

	16:30	16:50	17:10	17:30	17:50	18:10
S08.05 (KI, M11.42)	Numerical Homogenization of Different Foam Materials using FFT-based Methods <i>Staub, Sarah</i>		Asymptotic Reduction Modeling for Partially Saturated Soil Based on the Theory of Porous Media <i>Araz, Firat</i>	A second-order multi-scale phase-field fracture model for hydro-mechanically coupled porous materials <i>Polukhov, Elten</i>	A Top-Down Thermodynamic Motivated Perspective on Multiscale Material Modeling <i>Warkentin, Andreas</i>	A multiscale view on grain boundary resistivity and the Andrews method <i>Kaiser, Tobias</i>
S10.02 (KII, M17.72)	Aspects of a highly reduced order model for turbulent mixing based on hierarchical swapping of fluid parcels <i>Starick, Tommy</i>	Buoyancy-shear coupling in One-Dimensional Turbulence: from Rayleigh-Bénard to mixed convection <i>Li, Hanchen</i>	Algorithmic construction of reduced-order reactor network models based on CFD data <i>Gossel, Lisanne</i>	Synthesizing atmospheric boundary-layer turbulence by stochastic modeling and multi-scale filtering <i>Klein, Marten</i>		
S11.01 (KII, M17.15)	Sharp-Interface modeling and numerical simulation of wetting processes <i>Bothe, Dieter</i>		Advanced sub-grid scale modelling applied to bubble phase change problems <i>OUALI, Anthony</i>	Arbitrary Lagrangian-Eulerian surface discretizations for self-evolving Navier-Stokes manifolds <i>Sauer, Roger A.</i>	Computational Design of Mesh Structures for Enhanced Interface Stability Using a Phase-Field Method <i>Wagner, Alexander</i>	Pore-scale evaporation dynamics: Microfluidic experiment and pore-network modelling <i>Veyskarami, Maziar</i>
S14.04 (KII, M17.23)	Inner-Layer Asymptotics in Partially Perforated Domains: Coupling Across Oscillating Interface <i>Melnyk, Taras</i>	Homogenization of viscoelastic non-simple materials at large strains <i>Gahn, Markus</i>	Effective interface laws of Navier-slip-type involving the elastic displacement for Stokes flow through a thin elastic porous layer <i>Neuss-Radu, Maria</i>	Homogenization of a Stokes-transport system in an anisotropic porous medium with thin, evolving tubes <i>Hacker, Kilian</i>	Effective transmission through an interface with evolving microstructure <i>Fix, Lucas M.</i>	A thermodynamically consistent approximation of the Navier-Stokes-Cahn-Hilliard system for incompressible two-phase flows <i>Konan, Hasel Cicek</i>
S15.05 (KII, M17.21)	Experimental Design under Uncertainty <i>Krumscheid, Sebastian</i>		Distributed Multilevel Sequential Monte Carlo Applied to PDE-Based Bayesian Inverse Problems <i>Baumgarten, Niklas</i>	A Laplace Mixture Method for Multimodal Bayesian Inference <i>Gu, Hanyue</i>	Slice Sampling Using Approximations <i>Bitterlich, Kevin</i>	Markov Chain Monte Carlo for Particle Solvers <i>Løvbak, Emil</i>
S16.03 (KII, M17.81)	On extended real-valued variational inequalities - stability and penalization <i>Gwinner, Joachim</i>	A framework for the optimal modeling of rubber-like materials <i>Houari, Fadoua</i>	Simultaneous Optimization of Design Layout and Material Properties in Reinforced Concrete Structures <i>Masarczyk, Daniela</i>	Knowledge Infused Bayesian Optimization of Hyperparameters for Inverse Problems <i>Hornischer, Niklas</i>		
S17.01 (KII, M17.91)	Extrapolation based acceleration of stationary iterations for multi-term matrix equations. <i>Kürschner, Patrick</i>		On the Solution of Large-scale Non-autonomous Differential Riccati Equations: a Numerical Study <i>Mancinelli, Eugenio</i>	Towards a mixed-precision Newton-Kleinman method for the algebraic Riccati equation <i>Schulze, Jonas</i>	A scaling and recovering algorithm for the matrix φ-functions <i>Liu, Xiaobo</i>	Structure preserving computation of the pencil Padé approximation <i>Diab, Malak</i>

	16:30	16:50	17:10	17:30	17:50	18:10
S18.05 (KI, M11.71)	A-priori error analysis for space-time POD for a linear parabolic problem <i>Gräßle, Carmen</i>	Model order reduction of wave propagation in the context of damage identification <i>Burmester, Hannah</i>	A bulk-surface splitting scheme for the semi-linear wave equation with kinetic boundary conditions <i>Morandin, Riccardo</i>	A discrete gradient scheme for preserving QSR-dissipativity <i>Karsai, Attila</i>	On Convolution Quadrature based Variational Integrators of Fractional Dynamics <i>Hariz, Khaled</i>	Shooting Methods for Boundary Value Problems of Fractional Differential Equations <i>Pulch, Roland</i>
S19.05 (KII, M17.92)	Control in the coefficients of the obstacle problem <i>Wollner, Winnifried</i>	A numerical solution approach for non-smooth optimal control problems based on the Pontryagin maximum principle <i>Wachsmuth, Daniel</i>	Chattering solutions for parabolic boundary control problems with terminal observation <i>Christof, Constantin</i>	Derivatives of solution operators of sweeping processes <i>Brokate, Martin</i>	On the Acceleration of Polyak's Heavy-Ball Method <i>Weissmann, Simon</i>	
S20.05 (KII, M17.17)	Port-Hamiltonian Systems: Opportunities and challenges for analysis, numerics and optimal control <i>Schaller, Manuel</i>		Optimization-based control by interconnection of nonlinear port-Hamiltonian systems <i>Preuster, Till</i>	Towards Polynomial Representations of Port-Hamiltonian Systems <i>Itani, Mohammad</i>	Dissipativity properties of a class of nonlinear time-delay systems <i>El Haskouki, Ikram</i>	Neural Network-Enhanced Symplectic Integrators for Hamiltonian Systems <i>Othmane, Amine</i>
S22.04 (KI, M11.91)	Extrapolated Multigrid Methods for Elliptic PDEs on Non-Polygonal Domains <i>Dasari, Sai Aakash</i>	Smoothed Aggregation Algebraic Multigrid for Problems with Heterogeneous and Anisotropic Material Behavior <i>Firnbach, Max</i>	Identification of Performance-Critical Solver Parameters in Multilevel Block Preconditioners for Multiphysics Systems <i>Bühler, Regina</i>	Multilevel Monolithic Overlapping Schwarz and Geometric Multigrid <i>Köhler, Stephan</i>	Accelerating Matrix Inversions using Random Butterfly Transformations and Local Pivoting <i>Köhler, Martin</i>	An Example of Linear Systems on a Neuro-Inspired Platform <i>Gebert, Johannes</i>
S25.05 (KII, M17.01)	Parametric Symplectic Neural Networks <i>Janik, Konrad</i>	Learning Stable port-Hamiltonian Dynamics with Neural Networks <i>Roth, Fabian J.</i>	Integration of Physics-Augmented Neural Networks for Explicit Dynamics in OpenRadioss <i>Maurer, Lukas</i>	Symplecticity-Preserving Prediction of Hamiltonian Dynamics by Generalized Kernel Interpolation <i>Herkert, Robin</i>	Deciphering Acoustic Emission of Microsamples with Machine Learning <i>Ispánovity, Péter Dusan</i>	
S26.05 (KI, M11.62)	DFT and effective models for moiré materials <i>CANCES, Eric</i>	A quantitative Hohenberg-Kohn theorem and the unexpected regularity of DFT for spinless fermions in one spatial dimension <i>Carvalho Corso, Thiago</i>	Constrained Schrödinger Dynamics and the Foundations of TDDFT <i>Duez, Théo</i>	Fast adaptive discontinuous basis sets for electronic structure <i>Pan, Yulong</i>	Riemannian Multilevel Optimization for Kohn-Sham Type Problems <i>Püschel, Jonas</i>	Quantification of Discretization Error in Plane-Wave Density Functional Theory <i>Ploumhans, Bruno</i>
S27.01 (KII, M17.24)	Supporting transatlantic solution processes for real problems faced by companies: An insight into MINTco@NRW/Authentic-STEM <i>Stoffels, Gero</i>		From Teaching to Learning – Competence Orientation as a Key to Sustainable Learning <i>Bartel, Thorsten</i>	From Caesar to RSA: A CAMMP-Based Encryption Workshop for high-school classes <i>Heck, Alicia</i>	Development of an Online Course on Numerical Fundamentals <i>Born, Tobias</i>	Active Learning – The STEM Exercise Pool for Schools and Universities <i>Lohse, Alexander</i>

Thursday, March 19

	08:30	08:50	09:10	09:30	09:50	10:10
S01.02 (KII, M17.51)	Some aspects of Small Scale Autonomous Underwater Robots for Monitoring and Manipulation in Confined Spaces <i>Seifried, Robert</i>		Numerical damping, overshoot and global error propagation for constrained systems <i>Arnold, Martin</i>	Enabling Hybrid Modeling in Commercial MBS Software: A Force-Level Approach <i>Wohlleben, Meike</i>	Deployment of a Finite-State Machine on a Bipedal Robot for achieving Energy-Efficient Walking Locomotion <i>Mukherjee, Ashutosh</i>	Data-Driven System Identification of a BLDC Drive-train for Energy-Efficient Legged Robots <i>Luo, Yinnan</i>
S02.06 (KII, M17.12)	Advanced computational models of human extremities to improve medical evidence in total knee arthroplasty <i>Avcı, Okan</i>	Adaptive and Predictive Digital Twins in Orthopaedics: A Multimodal Patient-Specific Approach <i>Andres, Annchristin</i>	Physiological strain windows driving fracture healing: a simulation-based framework for site-specific modeling <i>Roland, Michael</i>	ML-based porous meta-material design for hip implant stability and bone growth <i>Aldakheel, Fadi</i>	Digital-Skin-Twin: In-Silico Planning for Personalised Skin Laser Treatment <i>Seyedpour, Seyedmorteza</i>	
S03.05 (KII, M17.74)	A Dynamic Phase-Field Framework with Automatic Mesh Adaptivity for Fast and Stable Fracture Simulation <i>Saberı, Hossein</i>	Dynamic Phase Field Fracture Simulation Using a Spatio-Temporally Adaptive Asynchronous Variational Integrator <i>Jadhav, Deepak B.</i>	From stationary to growing cracks: The Virtual Element Method in dynamic fracture mechanics <i>Wappler, Philipp</i>	Estimating Forming-Induced Damage for Crash Simulations with LS-Dyna <i>Zink, Thomas</i>	Ghost Forces and Dual-Horizon Bond-Based Peridynamics: A Variational Mechanics Perspective <i>Capobianco, Giuseppe</i>	A novel adaptive approach to bond-associated peridynamics <i>Partmann, Kai</i>
S04.06 (KI, M11.32)	A Variational Physics-Informed Neural Network Framework for Simulating Nonlinear Elastic Wave Propagation <i>Ankay, Benjamin</i>	Oscillatory Physics-Informed Neural Networks (oPINN) for vibrating continua <i>Hildebrand, Stefan</i>	Characterization of a foundation slab for reuse by inverse identification methods <i>Neuhaus, Neil</i>	Reducing Overestimation in Interval-Based Frequency Domain Analysis of Structures with Viscoelastic Dampers under Parameter Uncertainty <i>Łasecka-Plura, Magdalena</i>	Identification of Updated Voce-Chaboche Constitutive Model Parameters Using Convolutional Neural Networks <i>Altay, Okyay</i>	Effect of internal structures on particle damper performance: Assessing the predictive capability of LIGGGHTS open source Discrete Element Method (DEM) modeling tool <i>Lokhande, Harshad</i>

	08:30	08:50	09:10	09:30	09:50	10:10
S06.2.04 (KI, M11.82)	Temperature-related phenomena in polymers <i>Lion, Alexander</i>		Mechanical preconditioning and its implications for material modeling <i>Wollner, Maximilian P.</i>	Modelling the viscoelastic behaviour of Alginate-Gelatine Hydrogels <i>Graham, Marc</i>	Impact of Additives and Preconditioning on Thermal and Thermoviscoelastic Behavior of Thermoplastics <i>Huang, Yiheng</i>	When Invariants Matter: The Role of I1 and I2 in Neural Network Models of Incompressible Hyperelasticity <i>Dammass, Franz</i>
S07.06 (KII, M17.02)	Modelling Material Injection Into Porous Structures With the Theory of Porous Media: (In-)Consistency Under Local Thermal Non-equilibrium Conditions <i>Völter, Jan-Sören Lennart</i>	Coupled Thermo-Hydro-Mechanical Modeling of Soil Freezing: Predicting Biot and Skempton Coefficients and Frost Heave Implications <i>Williams Moises, Rodolfo Javier</i>	A Theory of Porous Media-Extended Phase-Field Fracture Model for Saturated Soft Porous Materials <i>Peters, Sven</i>	Potential method in the quasi-static problems of the coupled linear theory of elastic nanomaterials with triple porosity <i>Mikelashvili, Mariam</i>	Micro- to Nanoscale Metamaterials with Combined Flexo- and Piezoelectricity <i>Kozinov, Sergey</i>	Thermo-Mechanical Effects on Reflection Characteristics of Metamaterials for mm-Wave Applications in the Outdoor Environment <i>Gomez, Roshan</i>
S08.06 (KI, M11.42)	Graph-based nonlinear model order reduction for computations on representative volume elements <i>Faust, Erik</i>	E3C: A Novel Hyper-Reduction Technique For Two-Scale Modeling Applied To Elastoplasticity <i>Goldbeck, Hauke</i>	Efficient Computational Homogenization of Dissipative Microstructures using an Empirically Corrected Cluster Cubature Hyper-Reduction Method <i>Wulfinghoff, Stephan</i>	A multiscale model reduction framework for nonlinear solder joint reliability analysis <i>Feuchter, Mike</i>	Multiscale modelling of frame structures with lattice-like microstructures using finite beam elements at the macro and micro levels <i>Ochs, Julian</i>	A Multi-scale Phase Field Framework for FE² <i>Hütter, Gerafl</i>
S10.03 (KII, M17.72)	Toward a unified data-driven turbulence model through multi-objective learning <i>Wang, Haochen</i>	CFD modeling of aerosol removal in pool scrubbing using an Euler-Euler approach <i>Liao, Yixiang</i>	Dependency of the transitionally rough regime on planform and frontal solidity <i>Busse, Angela</i>	Exploring the Impact of Methanol-Assisted Reactivity Stratification on Ammonia combustion <i>Hemaizia, Abdelkader</i>	Kinetic Modeling and Simulation-Based Optimization of CO₂ Hydrogenation reactions to produce Methanol <i>Verma, Rakhi</i>	Model-induced uncertainties of complex turbulent flows in a 3D diffuser <i>Hintz, Johanna</i>
S11.02 (KII, M17.15)	Solving the Maxey-Riley-Gatignol equations: simulation, analysis and tracking of inertial particles <i>Ruprecht, Daniel</i>		Dynamical compartments in stirred tank reactors and Markov state modeling for mixing quantification <i>Thai, Thanh Tung</i>	Modeling and simulation of CMAS particle interaction with hot turbine surfaces <i>Selvaraj, Ravishankar</i>	Reduction-consistent thermodynamic modeling and computation of compressible and incompressible N-phase mixture flows <i>ten Eikelder, Marco</i>	Numerische Analyse der Zweiphasenströmung und der Wärmeübertragung in geschlossenen Thermosiphon-Sonden <i>Wang, Qiaoleiyue</i>
S14.05 (KII, M17.23)	On solutions to a model for slightly compressible, visco-elasto-plastic deformation <i>Eiter, Thomas</i>	Morphoelastic Growth at Large Strains <i>Blawid, Julian</i>	Qualitative properties of solutions of transmission problems for arch beams with thermal damping. <i>Fastovska, Tamara</i>	The fuzzy Landau equation: global well-posedness and Fisher information <i>Zamponi, Nicola</i>	Drift-diffusion models with Schottky contacts at metal-semiconductor interfaces <i>Glitzky, Annegret</i>	Can tachyon solutions of sine-Gordon equation contribute to dark energy <i>Günther, Helmut</i>
S15.06 (KII, M17.21)	Uncertainty Quantification for Bifurcating Dynamical Systems <i>Lux-Gottschalk, Kerstin</i>		A modeling perspective on uncertainties in dynamical systems <i>Tüting, Katja</i>	Weak error estimates of LOD for multiscale SPDEs <i>Hermann, Martin</i>	Towards one-shot multi-fidelity methods for compute intensive models <i>Kuhn, Allan</i>	

	08:30	08:50	09:10	09:30	09:50	10:10
S17.02 (KII, M17.91)	Relaxation-Based Constructions of Algebraic Multigrid Methods <i>Kahl, Karsten</i>	Grassmannian Flows and Near-Optimal Relaxation-Based Algebraic Multigrid <i>Moussa, Rayan</i>	Symbol-Based Analysis of Multigrid Methods for Maxwell's Equations on Structured Grids <i>Spoerer, René</i>	A new concept of block diagonal dominance and its application in randomized relaxations <i>Frommer, Andreas</i>	Exploiting Task-Based Parallelism for the Red-Black Gauss-Seidel Method on 2D Grids <i>Long, Shiting</i>	A matrix based analysis of the non-Hermitan Lanczos Algorithm <i>Ramme, Justus</i>
S18.06 (KI, M11.71)	Semi-explicit Time Discretization of Thermo-poroelasticity <i>Schmeck, Jochewed</i>	A locking-free and loosely coupled Robin-Robin scheme for the incompressible fluid-poroelasticity interaction. <i>Yue, Xiaohe</i>	Numerical approximation of the the dynamic poroelasticity equation in first order form <i>Shamko, Pavel</i>	Thermobaricity-driven circulation and water renewal in deep, low-salinity lakes <i>Irmscher, Jonathan</i>	A Temporal Multiscale Approach to Tidal Forcing in Ice-Sheet Dynamics <i>Reddig, Celine</i>	Self-propulsion of an immersed body via rotation and deformation <i>Edelmann, Joris</i>
S19.06 (KII, M17.92)	Consensus-based Optimization for Boundary Value Problems <i>Khatab, Mahmoud</i>	Optimal Control of Vlasov-Poisson Models Using the Jensen-Shannon Distance <i>Bartsch, Jan</i>	Flow of Gas Mixtures in Networks: Modeling and Multi-Objective Optimization <i>Ulke, Alena</i>	Analysis and Optimal Control of Nonlocal Age- and Space-Structured SVIR Models <i>Schlosser, Nicolas</i>	A Variational View on Constitutive Laws in Parabolic Problems <i>Xylander, Espen</i>	Inherent Structure of Data-Driven Elasticity in Hilbert Space <i>Steinbach, Marc C.</i>
S20.06 (KII, M17.17)	From Data To Mechanical Models Via Quadrature-based Balanced Truncation <i>Werner, Steffen W. R.</i>	H_∞ model order reduction for quadratic output systems <i>Hillebrecht, Birgit</i>	Model reduction via adaptive domain decomposition and basis updates <i>Gkimisis, Leonidas</i>	Optimally robust representation of (asymptotically) stable linear dynamical systems <i>Mehrmann, Volker</i>	Map-Matching for Knowledge-Graph Based Scene Modeling in Automated Driving with a Recursive Bayes Filter and Context-Dependent Transition Dynamics <i>Gerwien, Maximilian</i>	
S22.05 (KI, M11.91)	A Generic Discrete Space-Filling Curve for Scalable Adaptive Mesh Refinement <i>Dreyer, Lukas</i>	hp-Quadrature for One-Loop Feynman Integrals in the LTD Framework <i>Kovačić, Bartul</i>	Fast static condensation: A linearly scaling operator for non-constant diffusivities <i>Huisman, Immo</i>	Experimental and Numerical Investigation of Jump Phenomena in the Frequency Response of Piezoelectric Systems <i>Friesen, Olga</i>	Partial Observation of Linear Systems with Mori-Zwanzig Formalism <i>Wang, Fan</i>	
S23.01 (KII, M17.99)	Continuum limit of Lipschitz learning on sparse graphs <i>Roith, Tim</i>	Mean-field approximation for particle interaction on adaptive networks <i>Throm, Sebastian</i>	On the spectrum of positivity-preserving mass transport on graphs <i>Stephan, Artur</i>	On homogenisation of linear nonlocal problems in fractional divergence form <i>Erceg, Marko</i>	Well-posedness and passivity for a class of bilinear systems <i>Tasci, Tolgahan</i>	On Rayleigh scattering in massless Nelson models <i>Kußmaul, Valentin</i>
S24.01 (KII, M17.73)	The Members of GAMM 1922-1933 <i>Lemberg, Jason</i>		Die Geschichte der Vorgängerorganisationen des Deutschen Zentrums für Luft- und Raumfahrt e. V. (1907-1945): Ein Schulterblick in ein aktuelles Forschungsprogramm <i>Wichner, Jessika</i>	The Curious Life of Walter Lode <i>Bruhns, Otto T.</i>	Beam bending: Was Leonardo right? <i>Kienzler, Reinhold</i>	

	08:30	08:50	09:10	09:30	09:50	10:10
S25.06 (KII, M17.01)	Generalizable Graph Neural Networks for Hemming Simulations achieved by inducing Rotational-Invariance and Scale-Normalized Features and Multi-Scale Training <i>Paramasivam, Naveen</i>	Surrogate-based topology optimization using graph neural networks <i>Gündoğan, Elif</i>	Physics-informed learning of the solution operator of three-dimensional microstructures <i>Eivazi, Hamidreza</i>	Global Graph Surrogates and Neural Graph Elements for Computational Mechanics <i>Gulakala, Rutwik</i>	A spike-based graph surrogate for modeling finite element structures <i>Bhaskaran, Vaishnav</i>	
S26.06 (KI, M11.62)	What is your Differential Geometry doing in my Quantum Chemistry? <i>Lipparini, Filippo</i>		A geometric picture of linear response theory for variational methods <i>Grazioli, Laura</i>	Making excited state molecular dynamics simulations faster: an extrapolation strategy for linear response TD-DFT <i>Nottoli, Michele</i>	A Constrained Saddle Dynamics for Computing Electronic Excited States <i>HU, Yukuan</i>	
S27.02 (KII, M17.24)	Sensors in smartphones to support teaching in technical mechanics <i>Beitelschmidt, Michael</i>	Gauss' Principle, Numerical Algorithms and Programming for an Introductory Course on Engineering Dynamics <i>Geike, Thomas</i>	A Practice-Oriented Exercise Concept to Foster Modelling Competence in Technical Mechanics <i>Dorschu, Alexandra</i>	Interactive Pluto-notebook to visualize linear-elastic deformations of a tower of a wind turbine based on the Finite Element Analysis <i>Cordes, Theresa</i>	From Real-World Systems to Physical Models: A Didactic Approach to Fostering Modelling Competence Using the Bicycle in Statics <i>Tchomgue Simeu, Arnold</i>	Activating Students in Engineering Mechanics: Statics and Strength of Materials in Mechanical Engineering <i>Gebhardt, Ulrike</i>

	09:10	09:30	09:50	10:10
S16.04 (KII, M17.81)	An adaptive semismooth Newton method with global convergence rates <i>Alphonse, Amal</i>	A Globally Convergent Method for Computing B-stationary Points of Mathematical Programs with Equilibrium Constraints <i>Nurkanovic, Armin</i>	High-Performance Solvers for Large-Scale Mathematical Programs with Complementarity Constraints <i>Pozharskiy, Anton Edvinovich</i>	Contact-Implicit Inverse Dynamics <i>Fabre, Pierre</i>

	11:00
PL4 (KII, M17.01)	Large-scale Bayesian inversion with complex models <i>Petra, Noémi</i>

	12:00
PL5 (KII, M17.01)	The Power that Binds Us: Computational Biomechanics in the Heart <i>Nordsletten, David</i>

	14:00	14:20	14:40	15:00	15:20	15:40
S01.03 (KII, M17.51)	Human Body Models in Real-Time Unreal Engine Physics for the Development of Safety Functions in Autonomous Vehicles <i>Fehr, Jörg</i>		Simulation of Friction-Induced Effects in Web Handling with Curved Contact Geometry <i>Zeberle, Christian</i>	On implementing the Neighbored Element Method for a fast and robust Third Medium Contact <i>von Zabiensky, Max</i>	Friction mechanisms and coefficients in solid lubricated PA66 - Optical observation of surface dynamics <i>Graf, Matthias</i>	
S02.07 (KII, M17.12)	SynGROW – A novel framework for the Synthetic Generation of Rigorously Optimized Volumetric Vasculature <i>Jessen, Etienne</i>	A multiscale-multiphysics framework for modeling organ-scale liver regrowth with quantitative validation after 70% partial hepatectomy in mice. <i>Hohl, Jannes</i>	Finite growth of N-phase mixtures: a thermodynamically consistent Lagrangian framework with application to avascular tumor growth <i>Stollberg, Jonathan</i>	Microbial modelling of the growth of microorganisms and biological production kinetics <i>Liu, Qiyue</i>	Novel hybrid simulation approach for filamentous microorganisms with multi-material populations in bioprocesses <i>Kardooni, Mohammad Reza</i>	On the mechanical behaviour of grass structure for coastal protection <i>Klaus, Katja</i>
S03.06 (KII, M17.74)	Influence of Material Constitutive Laws on Effective Crack Resistance in Heterogeneous Materials <i>Schlüter, Alexander</i>		Prediction of Interface Crack Deflection in Bimaterials Using the J-Integral for Cohesive Zones <i>Zarjov, Konstantin</i>	Modelling of Material Separation and Self-Contact with an Adaptive Particle Finite Element Method <i>Schewe, Markus</i>	Modelling contact of crack faces to study conditions of anticrack propagation <i>Hach, Mathis</i>	Simulation of crack surface friction within the phase-field method <i>Koch, Leonie</i>
S04.07 (KI, M11.32)	Simulation of crack initiation in a heterogeneous domain <i>Medda, Ronjit</i>	An AceGen Interface for the Efficient Analysis of Gradient Damage Problems in Ferrite.jl <i>Geht, Artur</i>	Pressure-Induced Deformation in curved and fiber-reinforced flexible hoses: From 3D continuum simulation to experiments <i>Hoesch, Quirin</i>	Viscoelastic Constitutive Modelling for Cable Simulation: A Computational & Experimental Assessment <i>Shirke, Atharva</i>	Displacement-Based Multiaxial Cycle Counting for the Progressive Damage Analysis of a Wind Turbine Blade <i>Fink, Richard</i>	Experimental Validation of a Static Digital Twin for Reducing the Formwork Support Time of Reinforced Concrete Ceilings <i>Müllner, Herbert W.</i>
S06.1.02 (KI, M11.82)	Analysis and modelling of ageing time evolution during non-monotonous loading paths within Dynamic-Strain-Ageing models <i>Rose, Lars</i>	Automated Formulation of Advanced Creep-Fatigue Constitutive Models Using Query-Based Decision Systems <i>Jahnke, Alexander</i>	Three-Scale Homogenization of Lamellar NiAl-(Cr,Mo) Composites <i>Klein, Claudius</i>	Modelling Laser Metal Deposition with the Particle Finite Element Method and a large strain temperature-dependent viscoelastic material model <i>Olatunbosun, Justice</i>		
S07.07 (KII, M17.02)	Electro-chemo-mechanical modeling of structural battery electrode materials with focus on processes at material interfaces <i>Rollin, David</i>	Electro-Chemo-Hydro-Mechanical Modeling of PEMWE Anode Catalyst Layers: The Role of Phase Change in Partially Saturated Porous Media <i>Sidharth, PC</i>	From Microstructure to Performance: A Multi-scale Multiphysics Model of Solid Oxide Fuel Cells <i>Langner, Eric</i>	Generating short-fiber reinforced polymer microstructure with Fiber-length and Fiber-orientation coupling <i>Mehta, Alok Ranjit</i>	Thermo-Mechanical Modeling of Paper and Paperboard <i>Jellen, Finnja</i>	Thermo-Mechanical Response of LiAlO₂ Subjected to Laminar Strained Premixed Flames based on coupled modeling approach <i>Yu, Chuncan</i>

	14:00	14:20	14:40	15:00	15:20	15:40
S08.07 (KI, M11.42)	Stochastic description of the mechanical response in network glasses <i>Wu, Zhao</i>	Computational Relaxation Techniques for Isotropic Functions <i>Neumeier, Timo</i>	Adaptive grid refinement in FFT-based homogenization by using interpolatory wavelets <i>Mätzig, Laurenz</i>	On some aspects of scale-dependent multi-continuum homogenization <i>Nika, Grigor</i>	Computational modeling of the homogenized hydraulic and chemical conductivity in fractured Engineered Cementitious Composites during Self-healing <i>Blaszczyk, Mischa</i>	Thin-walled beams from Naghdi models <i>Ljulj, Matko</i>
S09.01 (KII, M17.72)	Aspects of the laminar and transitional flow in curved and helical pipes <i>Schlatter, Phillip</i>		Convection in an internally heated dielectric fluid layer <i>Nagaraj, Kushal</i>	Hydrodynamic stability of MHD fluid through rotating rectangular porous channel <i>Kumar yadav, Satyendra</i>	Investigation of the flow topology in the mouth of a filter feeding-fish – a CFD study towards a non-clogging technical filtration device <i>Hormozi, Hiva</i>	
S11.03 (KII, M17.15)	When hydrogen bubbles break our models <i>Baltussen, Maïke</i>		Experimental Characterization of Two-Phase Flow Regimes in Optically Accessible Fuel-Cell Cathode Plates <i>Lehle, Moritz</i>	A Lagrangian Analysis of the Depletion of Substrates in the Gaseous Phase and the Effect on Mass Transfer <i>Weiland, Christian</i>	Approach towards Pulsating Heat Pipe Performance Prediction using Gradient Boosting and Experimental Iteration <i>Franke, Friedrich</i>	Numerical simulations of interfacial mass transfer around rising bubbles contaminated by soluble surfactants <i>Lalanne, Benjamin</i>
S13.01 (KII, M17.98)	A roughness-induced drag parameterization and map-based turbulence modeling for channel flows: extended application to barnacle-type roughness <i>Shampa, Maharun Nesa</i>	Investigation of the Friction Coefficient of a Heterogeneous Rough Surface <i>Schmitgen, Ute</i>	Impact of Transient Pumping Strategies on Flow Regime Transitions in Mildly Turbulent Channels <i>Polasanapalli, Sai Ravi Gupta</i>	Ferrohydrodynamic Hybrid Nanofluid Flow with Geothermal Viscosity and Slip Effects <i>Sharma, Kushal</i>	Control of Bénard–Marangoni Instability by Periodic Thermal Forcing in Superposed Fluid–Porous Layers <i>SUTHAR, OM</i>	
S14.06 (KII, M17.23)	Weak-Strong Uniqueness and Relaxation Limit for a Parabolic Relaxation of the Navier-Stokes-Korteweg System <i>Wendt, Florian</i>	Two-time scale dynamics of a 2D rimming-flow equation <i>Joussen, Juri</i>	Dynamics of a 3d rimming flow <i>Lienstromberg, Christina</i>	A functionalized-Cahn–Hilliard type model for two-phase flow with surfactants <i>Ullrich, Clemens</i>	Short- and long-time behavior in evolution equations: the role of the hypocoercivity index <i>Arnold, Anton</i>	
S15.07 (KII, M17.21)	Deep Learning methods for stochastic Galerkin approximations of elliptic random PDEs <i>Musco, Fabio</i>	Polymorphic Uncertainty Quantification of Composite Materials by Homogenization based on Physics-Augmented Neural Networks <i>Harazin, Felix</i>	Uncertainty Quantification for Physics-Informed Neural Networks <i>Gedikli, Talha</i>	Generalized Gaussian process with equivariant neural operators <i>Liu, Zhuo-Ran</i>	Neural-Network-Driven Sequential Quasi Monte Carlo Sampling for Bayesian Inference with Complex Posteriors <i>Panagiotopoulos, Andreas</i>	

	14:00	14:20	14:40	15:00	15:20	15:40
S17.03 (KII, M17.91)	Least squares problems: accurate solutions with approximate computing <i>Meier, Maïke</i>		Reduced and Mixed Precision Householder QR Decomposition <i>Oktay, Eda</i>	A general framework for Krylov ODE residuals with applications to randomized Krylov methods <i>Krieger, Emil</i>	Bridging continuous and discrete tensor formats of multivariate functions via QTT <i>Sun, Bonan</i>	Computation of low rank approximations of matrix polynomials using regularization <i>Enerbäck, Jenny</i>
S18.07 (KI, M11.71)	Efficient discontinuous Galerkin methods leveraging local-global structures <i>Stocker, Paul</i>		Tangential Crouzeix Raviart Finite Elements for the Surface Stokes Equation <i>Chowdhury, Manisha</i>	On the numerical treatment of the stochastic Cahn-Hilliard equation with double-obstacle potential <i>Metzger, Stefan</i>	Generalized shape operator for nonlinear shells <i>Neunteufel, Michael</i>	hp-Finite Elements for Elastoplasticity <i>Bammer, Patrick</i>
S19.07 (KII, M17.92)	Newton methods for variational problems on nonlinear spaces <i>Schiela, Anton</i>	Optimal control of PDEs for mappings into manifolds <i>Weigl, Laura</i>	Optimal design with inverse deformation analysis and stress constraints <i>Gartner, Dominik</i>	Riemannian gradient descent along geodesic paths for shape optimization using isogeometric analysis <i>Rosandi, Rozan</i>		
S20.07 (KII, M17.17)	Funnel control with input filter for nonlinear systems of relative degree two <i>Schaa, Janina</i>	Stability results for interconnected PWA systems <i>Cimpean, Radu</i>	Approximating Discrete-Time Control Barrier Function Controllers with Safety Guarantees <i>Pauli, Patricia</i>	State Feedback Control of the Generalized Brockett Integrator <i>Gerbet, Daniel</i>	Criteria for input-to-output stability of infinite-dimensional systems <i>Mironchenko, Andrii</i>	Assessing dynamical stability of data-driven surrogate models <i>Grimm, Adrian</i>
S22.06 (KI, M11.91)	A Flexible Open-Source Finite Element Platform for Redox Flow Battery Modeling <i>Aghabarari, Amirhossein</i>	Efficient Numerical Simulation of Excitonic Drift-Diffusion Models for Organic Photovoltaics <i>Çiloğlu, Pelin</i>	Model adjustments and solver construction for galvanic cells based on NPP-systems <i>Schwöbel, Stephan</i>	Spatiotemporal Reaction-Diffusion Modeling of Wolbachia Persistence in Aedes aegypti Populations <i>Mena, Hermann</i>	Efficient Numerical Methods for the Simulation of Post-Pumping Saltwater Intrusion Experiments <i>Nägel, Arne</i>	Bayesian inference for bathymetry reconstruction <i>Stietz, Lars</i>
S24.02 (KII, M17.73)	Exciting objects for historical research – Mechanical gyroscopes in Germany between 1925 and 1975 <i>Niklaus, Maria</i>	A historical mechanical construction as a possible foundation of artificial intelligence, with a dynamical systems perspective <i>Gunesch, Roland</i>	The development of rheology as a science <i>Altenbach, Holm</i>	The long shadow of Karl Weierstraß over the calculus of variations <i>Ullrich, Peter</i>	Caring about the Material Culture of Mathematics and Mechanics: Collections and Networks at the University of Stuttgart <i>Ceranski, Beate</i>	
S25.07 (KII, M17.01)	Analyzing Uncertainty Quantification in Statistical and Deep Learning Models for Probabilistic Electricity Price Forecasting <i>Schlüter, Stephan</i>	Application of deep symbolic regression for approximation problems in statistical mechanics. <i>Popova, Alina</i>	Assessing the Robustness of Data-Driven Impact Localization Models Under Real-World Experimental Variability <i>von Cramon-Taubadel, Emanuel</i>	Universal Design of Elastic Microstructures by Inverse Neural Networks <i>Eidel, Bernhard</i>	Data-Driven Surrogate Modeling for Long-Term Fatigue Load Prediction in Wind Energy Systems <i>Albers, Hannes</i>	Relating Stochastic Microstructural Geometric Imperfections to Effective Quantities' Uncertainty using Reduced Order Models and Machine Learning <i>Chitnis, Tanmay</i>

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S26.07 (KI, M11.62)	Recent developments in ab initio tensor network methods <i>Legeza, Örs</i>	Randomised sketching for tensor train rounding: application to quantum chemistry <i>Dupuy, Mi-Song</i>	The one-body Green's function of quantum lattice systems. <i>Kirsch, Alfred</i>	On a Grassmann manifold optimization problem arising from quantum embedding methods <i>NEGRE, Alicia</i>	Quantum Algorithm for Real-Space Chemistry: Adaptive Molecular Grids and Transcorrelated Hamiltonian <i>Feniou, César</i>	Low-complexity approximations with least-squares formulation of the time-dependent Schrödinger equation <i>Guillot, Clément</i>
S27.03 (KII, M17.24)	Applied Games as Catalysts for Engineering Education <i>Freese, Maria</i>		Teaching in the era of AI <i>Kochmann, Dennis M.</i>	Research-oriented teaching with bwJupyter <i>Hoerter, Jasmin</i>	Complex System Modelling with Live Data and Learning - KoSyMo <i>Heiland, Jan</i>	AR-FLOW: A Unity-Based Platform for Interactive and Structured Learning in Fluid Mechanics <i>Aurich, Daniel</i>

	16:30
PL6 (KII, M17.01)	Digital Twins in Materials Mechanics: From Descriptive to Predictive Models <i>Schulz, Katrin</i>

	17:30	17:50	18:10	18:30
S04.08 (KI, M11.32)	A Computational Multiscale Framework for Shakedown Analysis of Particle-Reinforced Metal Matrix Composites (PRMMCs) <i>Veludandi, Lavakumar</i>	Geometry-informed surrogate modeling for architected metamaterial design under high-rate loading <i>Gärtner, Til</i>	Automatic Model Identification and Calibration of Hyperelastic Materials based on Digital Image Correlation and Bayesian Inference <i>Nguyen, Duc Hoang</i>	
S06.1.03 (KII, M17.14)	Two-Stage Newton Algorithm for Magnetic Constitutive Models with Hysteresis <i>Aliyeva, Ainura</i>	3D Simulation of Niobium-based Ferroelectric Materials with Precipitation Hardening <i>Bohnen, Matthias</i>	Multiscale optimization of printable structures with minimization-based phase-field models <i>Krischok, Andreas</i>	
S06.2.05 (KI, M11.82)	Finite-strain material modeling and inverse parameter identification of swelling-induced deformations in hydrogels <i>Rinke, Felix</i>	Humidity and UV Effects on PA 6 Thermoviscoelasticity <i>Kehrer, Loredana</i>	An anisotropic hyperelastic-plastic material model considering process-structure-property relations for injection moulded thermoplastic vulcanisates <i>Mentges, Noah</i>	Investigating Subglacial Cavity Evolution Using Two-Dimensional Viscoelastic Ice Sheet Modeling <i>Heck, Luisa</i>
S08.08 (KI, M11.42)	Energetically Consistent Nano-Micro Scale Transition by Computational Homogenization Using Molecular Statics RVEs in a micro-FEM <i>Neelakandan, Aagashram</i>	X-FFT: Computational homogenization of 3D elasticity with the accuracy of interface-conforming FEM and the speed of FFT methods <i>Gehrig, Flavia</i>	Neural Network Compression for Computational Polyconvexification of Isotropic Functions <i>Salmon, Julian</i>	
S18.08 (KI, M11.71)	Modeling Nonlinear Acoustic Wave Propagation with Third-Order Elastic Constants Using the Finite Element Method <i>Hölscher, Jonas</i>	Robust Interface-Based Modeling for Nutrient Transport in Porous Media <i>boudrari, fadoua</i>		

S26.08 (KI, M11.62)	17:30	17:50	18:10	18:30
	Regularized dynamical parametric approximation <i>Lasser, Caroline</i>	Simulation of the magnetic Ginzburg-Landau equation via vortex tracking <i>Kemlin, Gaspard</i>	Numerical Bogoliubov Approximation for Bosonic Quantum Systems <i>Le Hénaff, Yoann</i>	

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	08:30	08:50	09:10	09:30	09:50	10:10
S03.07 (KII, M17.74)	# Convex continuum damage models with softening <i>Schneider, Matti</i>	Convexification-based local continuum damage modeling with damage-softening behavior <i>Lauff, Celine</i>	Cutting Soft Materials: Mechanics Beneath the Surface <i>Moreno-Mateos, Miguel Angel</i>	Predicting Fracture Path In Random Networks <i>Shekh Alshabab, Somar</i>	An improved extended phase-field method for the efficient simulation of fracture <i>Curosu, Verena</i>	
S04.09 (KI, M11.32)	Accuracy analyses on test strain determination for the calibration of strain gages <i>Lehmann, Thomas</i>	Observing Modal Coordinates with Integrated Motion Measurement Systems for Structural Health Monitoring <i>Kohl, Michael</i>	Investigation of the quasi-static shear behaviour of glass fibre reinforced plastics including fibre rotations and a nonlinear stiffness development <i>Häusler, Stephan</i>	Mechanical Characterization of material-extrusion manufactured Mycelium-bound Composites with Biopolymer Lattice Reinforcement <i>Panjali poursangari, Narges</i>	Impact of mechanical preload on the behavior of piezoelectric multilayer actuators <i>Riedel, Simon</i>	Application of embedding and the Moore-Penrose inverse in nonlinear solid mechanics <i>Flajs, Rado</i>
S06.1.04 (KII, M17.14)	An Augmented Lagrangian Formulation of General, Non-Associative Multi-Surface Plasticity at Finite Deformations <i>Prüger, Stefan</i>	Crystal plasticity modeling based on a single effective yield function <i>Niehüser, Alexander</i>	Accelerated interior point algorithms for rate-independent single-crystal plasticity at large strains <i>Steinmetz, Felix</i>	Scale bridging mesoscopic polycrystal plasticity and nanoscale precipitation using a coupled full-field and mean-field strategy <i>Safi, Ali Reza</i>	A Stochastic Finite-Strain Continuum Dislocation Dynamics Crystal Plasticity Model <i>Lee, Sing-Huei</i>	
S06.2.06 (KI, M11.82)	Viscoelastic Material models in the context of Digital twins <i>Budihala, Gajendra Babu</i>	A finite viscoelastic Maxwell model for ice shelves using an exponential update and Glen's flow law <i>Koßler, Marvin</i>	Modeling Mechanical and Caloric Relaxation Processes in the Glass Transition Regime of Polymeric Materials <i>Hille, Frederik</i>			

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S07.09 (KII, M17.02)	An Enhanced Phase-Dependent Thermo-Mechanical model for Metal Powder Bed Fusion <i>Noll, Isabelle</i>	Radiative Transfer Model for Laser-Powder Interaction in Directed Energy Deposition <i>de Payrebrune, Kristin</i>	Rheological Characterization of Solid Hydrogel Laminates <i>Güneş, Gönç Berk</i>	Coupled Mass-Momentum Formulation of Wear for Contact Problems <i>El Masri, Samir</i>	Solution algorithms for the numerical treatment of strain-gradient crystal plasticity <i>Lara, Jose</i>	Inferring the Constitutive Behavior of Additively Manufactured Aluminum through Micro Compression Testing and Finite Element Modeling <i>Eisenräger, Johanna</i>
S07.09.2 (KII, M17.52)	Topology optimization using the finite cell method for vibroacoustic problems in the time domain <i>Radtke, Lars</i>	Coupling Scaled Boundary Perfectly Matched Layers with Immersed Vibroacoustics <i>Jambagi, Mahendra Bhimappa</i>	Partitioned Fluid-Structure Interaction in Maritime Applications <i>Kühne, Christian</i>	Higher-order block-structured meshing for moving domains with connectivity changes <i>Schalk, Teresa</i>	A Coupled Definition of Jet Engine Thrust and Aircraft Drag <i>Staudacher, Stephan</i>	
S11.04 (KII, M17.15)	A minimalist model for the capture and investigation of solitary waves in gravity-driven liquid films <i>Scholle, Markus</i>	Analytical Modelling of Capillary-Driven Heat Transfer in Micro Heat Pipe <i>Singh, Manjinder</i>	Map-based modeling of intermittency effects on coagulation of zero-inertia particles in inertial-range turbulence <i>Medina Méndez, Juan A.</i>	Stability and Instability in Anisotropic Multi-Phase Interface Evolution <i>Eto, Tokuhiro</i>	Virtual One-Dimensional Turbulence (VODT) for Subgrid Primary Breakup in Interfacial Flows <i>Munhoz-Boillot, Ionawr</i>	
S12.01 (KII, M17.72)	A time-domain boundary element method for acoustics with generalized convolution quadrature and adaptive fast multipole evaluation <i>Arora, Nikhil</i>	Time Domain Boundary Element Methods for the Neumann Problem: A Reduced Approach for Practical Applications <i>Schneider, Simon</i>	On the Role of Interfaces in Metamaterial Design <i>Hermann, Svenja</i>	First Order Time Derivative Models in Nonlinear Acoustics <i>Lehner, Pascal</i>		
S13.02 (KII, M17.98)	A Hybrid-Airfoil Strategy for Improving Off-Design Performance and Stability of a Small-Scale Wind Turbine <i>Laouar, Roudouane</i>	Deterministic Data Assimilation for Compressible Jets Using Schlieren Imaging and DNS <i>Farhikhteh, M. Erfan</i>	Hybrid Screening-MOGA Refinement for High-Fidelity Wind Turbine Blade Optimization <i>Bekkai, Riyadh</i>	Reduced Order Modelling and Optimal Flow Control Strategies for Hemodynamics <i>Rozza, Gianluigi</i>		
S16.05 (KII, M17.81)	Topology Optimization for Grayscale Masked Stereolithography <i>Rutsch, Felix</i>	Topology, orientation and fiber path optimization for layered anisotropic materials <i>Jantos, Dustin Roman</i>	Optimal Control of Heating Networks under Demand Uncertainty <i>Heidrich, Johanna</i>	Consistent Variational Shape Gradients Across Finite Elements and Isogeometric Analysis <i>Liedmann, Jan</i>	Reactor Shape Optimization for Heterogeneous Catalytic Systems based on Reduced Order CFD <i>Qureshi, Muhammad Uzair</i>	Don't forget the energy: multi-objective model reduction for port-Hamiltonian systems <i>Nicodemus, Jonas</i>
S17.04 (KII, M17.91)	A novel graph coloring technique for the trace estimation of an inverse Dirac matrix <i>Papace, Mario</i>	A Two-Phase Approach to Distance-d Coloring of Grids and Tori <i>Lang, Bruno</i>	Certified Model Order Reduction for parametric Hermitian eigenproblems <i>Manucci, Mattia</i>	Optimal Damping for the 1D Wave Equation Using a Single Damper <i>Tomljanovic, Zoran</i>	Structured stability radii for linear Dissipative-Hamiltonian systems. <i>Prajapati, Anshul</i>	ResQPASS: Generalising Krylov subspace methods to solve constrained linear least squares problems <i>Symoens, Bas</i>

	08:30	08:50	09:10	09:30	09:50	10:10
S18.09 (KI, M11.71)	On geometric multigrid convergence and its application to space-time FEM <i>Bause, Markus</i>	Krylov-Based Iterative Methods for Linear Port-Hamiltonian Systems <i>Maier, Stefan</i>	An FFT-based solver for heterogeneous micro-magnetics <i>Lendvai, Jonas</i>	Numerical approximation of partial differential equations using periodic extensions and high-performance computing <i>Doghman, Jad</i>	Multilevel Schwarz Methods for the Coupled Stokes–Darcy Problem <i>Zhang, Haicheng</i>	Performance of vertex-patch smoothers on GPU architectures <i>Kanschat, Guido</i>
S25.08 (KII, M17.01)	Hard-constraining Boundary Conditions for Physics-Informed Neural Operators <i>Götschel, Sebastian</i>	Neural Operators for Accelerating Iterative Solvers <i>Eshaghi Khanghah, Mohammad Sadegh</i>	A physics-encoded Fourier neural operator approach for surrogate modeling of divergence-free stress fields in solids <i>Oexle, David</i>	Neural Operator Modeling of History-Dependent Plastic Deformation in Heterogeneous Media <i>Rezaei, Shahed</i>	A Surrogate Model for Structure-Property Linkages in Polycrystals Using Physics-Informed Neural Operators <i>Awad, Ahmad</i>	Accelerating Conjugate Gradient Solvers for Homogenization Problems with Unitary Neural Operators <i>Herb, Julius</i>

	11:00
PL7 (KII, M17.01)	When PDE-constrained optimization becomes nonsmooth — and how we treat it <i>Ulbrich, Michael</i>

	12:00
PL8 (KII, M17.01)	The Solver Bottleneck: Past, Present, and Future of Scalable Solvers for High-Order Methods <i>Persson, Per-Olof</i>

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