

Zadar • Croatia • June 2 – 3, 2026

1st German – Croatian Workshop on Mechanics

Programme



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June 2-3, 2026
Zadar, Croatia

Organisers and Financial Support



University of Zadar
Universitas Studiorum
Jadertina | 1396 | 2002 |

Under the Auspices of



KLUB HRVATSKIH HUMBOLDTOVACA
Kroatischer Humboldtianer-Klub
www.humboldt-club.hr

Coordinated by

Marko ČANAĐIJA, University of Rijeka

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Tomislav LESIČAR, University of Zagreb

Jörn MOSLER, Technische Universität Dortmund

Jörg SCHRÖDER, Universität Duisburg-Essen

Workshop Venue

Rectorate of the University of Zadar

Mihovila Pavlinovića 1, Zadar, Croatia

Technical Organizer

URKA d.o.o. – Perfectmeetings.hr. Contact person: Nina DUMANČIĆ

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General Information

The duration of plenary lectures is 60 minutes, including discussion.

The duration of keynote lectures is 15 minutes, including discussion.

Session will start precisely at the times listed in the table below.

All participants are expected to upload their presentation before the session.

The lecture room will be equipped with a laptop computer with Microsoft Office and Adobe Reader installed.

Internet access via Wi-Fi will be available in the lecture room.

Social Programme

The welcome dinner will be served on Monday, June 1, at 20:00 at
Hotel A'mare, Ul. bana Josipa Jelačića 4A, Zadar

The workshop dinner will be held on Tuesday, June 2, at 20:00 at
Restaurant Butler, Obala kralja Tomislava 1, Zadar

The guided tour of Zadar will start at the entrance to
Restaurant Barbakan, Ul. Ruđera Boškovića 3, Zadar on June 3 at 14:00h

Web:

<https://csm.hr/1stGerCroMech/>

Monday, June 1

20:00 –	Welcome Dinner Hotel A'mare Ul. bana Josipa Jelačića 4A, Zadar
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Tuesday, June 2

8:30 – 9:00	Registration
9:00 – 9:30	Workshop Opening Welcome Speeches: Representative of the University of Zadar Representative of the Croatian Humboldt Club Representative of the German Association of Applied Mathematics and Mechanics Practical Information for Participants
09:30 – 10:30	Session Chairs: Lovre Krstulović-Opara and Jörg Schröder Plenary Lecture Peter Wriggers , Leibniz Universität Hannover <i>Third Medium Contact: A New Framework and Recent Advances</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	Session Chairs: Nina Čeh and Sven Klinkel Keynote Lectures Patrick Kurzeja, TU Dortmund <i>A Novel Neural Network for Isotropic Polyconvex Hyperelasticity with Guaranteed Universal Approximation</i>

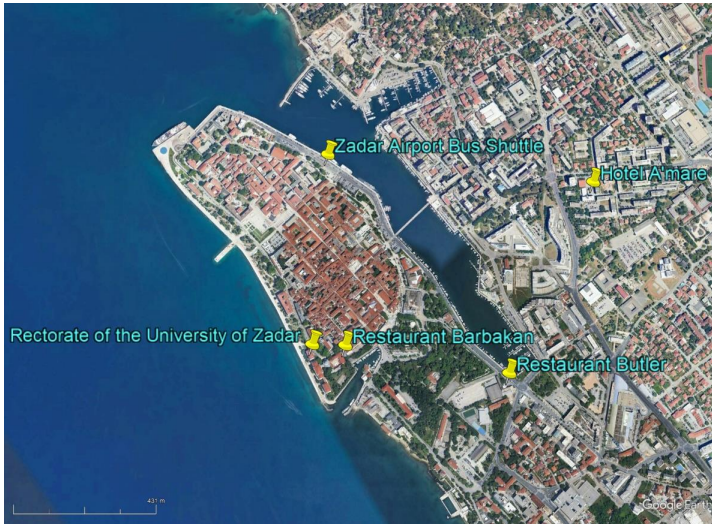
	<p>Tomislav Lesičar, University of Zagreb <i>Computational Modelling of Heterogeneous Materials: Multiscale Methods, Constitutive Modelling and Data-Driven Approaches</i></p> <p>Laura De Lorenzis, ETH Zürich <i>Towards Operator Learning for Computational Solid Mechanics</i></p> <p>Mijo Nikolić, University of Split <i>Bayesian Stochastic Identification of the Discrete Model Parameters in Multi-Physics and Fracture Problems</i></p> <p>Tim Ricken, University of Stuttgart <i>The Power of Auxetics: Designing Metamaterials from the Inside Out</i></p> <p>Martin Zlatić, University of Rijeka <i>Thermomechanical Physics Augmented Neural Networks: Construction, Training and Implementation</i></p>
12:30 – 13:45	<p>Lunch</p> <p>Restaurant Barbakan Ul. Ruđera Boškovića 3, Zadar</p>
13:45 – 14:00	<p>Group Photo</p> <p>Entrance to the Rectorate Building</p>
14:00 – 15:30	<p>Session Chairs: Björn Kiefer and Zvonimir Tomičević</p> <p>Keynote Lectures</p> <p>Dominik Brands, University of Duisburg-Essen <i>Modeling Rate-Dependent Fracture in Polymer Fiber-Reinforced Concrete Using a Phase-Field Framework</i></p> <p>Darko Damjanović, University of Slavonski Brod <i>Limitations in Fracture Toughness Assessment of Pipes and Improvement of PRNB Testing via an Inclined Notch</i></p> <p>Darko Ivančević, University of Zagreb <i>Impact Damage Modelling in Laminated Composite Structures</i></p> <p>Jörn Mosler, TU Dortmund <i>Limitations and Extensions of Eigenresonance Methods for Variational Fracture Modeling</i></p>

	<p>Ralf Müller, TU Darmstadt <i>Simulation of Effective Fracture Parameters in Porous and Hybride Materials</i></p> <p>Leo Škec, University of Rijeka <i>Efficient Modelling of Adhesive Debonding: From Beam Theory to Multi-Scale Interface Behavior</i></p>
15:30 – 16:00	Coffee Break
16:00 – 17:30	<p>Session Chairs: Ralf Müller and Leo Škec</p> <p>Keynote Lectures</p> <p>Damjan Banić, University of Rijeka <i>A Finite Element Formulation for Stability Analysis of Open Thin-Walled Composite Beam-Type Structures</i></p> <p>Gabrijela Grozdanić, University of Split <i>Numerical Modelling of LG Structures: Continuum and Discontinuum Approaches Under Different Loading Regimes</i></p> <p>Sven Klinkel, RWTH Aachen University <i>A Polygonal Finite-Element-Method for the Analysis of Plates and Shells</i></p> <p>Alexander Schwarz, University of Duisburg-Essen <i>Mixed Least-Squares Finite Element Formulations for the Application in Poroelasticity</i></p> <p>Jaan-Willem Simon, Bergische Universität Wuppertal <i>Multiscale Analysis of Damage in Thermoplastic Fiber-Reinforced Composites</i></p> <p>Zvonimir Tomičević, University of Zagreb <i>From Global Response to Strain Localization in Porous Materials: A Volumetric Perspective</i></p>
17:30 – 18:00	<p>Panel Moderators: Laura De Lorenzis, Lovre Krstulović-Opara and Jörg Schröder</p> <p>Panel Discussions</p>
20:00 – 23:00	<p>Workshop Dinner</p> <p>Restaurant Butler Obala kralja Tomislava 1, Zadar</p>

Wednesday, June 3

9:00 – 10:50	<p>Welcome Speech: Representative of the Croatian Society of Mechanics</p> <p>Session Chairs: Kevin Linka and Mijo Nikolić</p> <p>Keynote Lectures</p> <p>Petra Bagavac, University of Split <i>Mechanical Characterization of Automotive Materials under Complex Loading Conditions</i></p> <p>Nina Čeh, University of Rijeka <i>Dynamic Behaviour of Rigid-Body Systems with Dry and Elastic Contacts: From Rocking to Ductile Masonry Models</i></p> <p>Alen Grebo, University of Split <i>A Deep Learning Framework for Full-Field Thermal Field Distribution Prediction from Digital Image Correlation Strain Measurements</i></p> <p>Björn Kiefer, TU Bergakademie Freiberg <i>Variational Formulations and Computational Frameworks for Chemo-Mechanical Coupling in Solids</i></p> <p>Kevin Linka, University of Technology Hamburg <i>Interpretable to Expressive: Different Flavors of Data-Driven Constitutive Modeling</i></p> <p>Stipe Perišić, University of Split <i>Bayesian Damping-Based Degradation Detection</i></p> <p>Lana Virag, University of Zagreb <i>Vascular Biomechanics: Computational Modelling of Diseases and Treatments</i></p>
10:50 – 11:15	<p>Moderators: Marko Čanadija, Tomislav Lesičar and Jörn Mosler</p> <p>Panel Discussions</p>
11:15 – 11:45	<p>Coffee Break</p>

11:45 – 12:45	<p>Session Chairs: Laura de Lorenzis and Jörn Mosler</p> <p>Plenary Lecture</p> <p>Gordan Jelenić, University of Rijeka <i>On Some Open Questions in Linear and Non-Linear Cosserats' Elasticity</i></p>
12:45 – 13:00	Workshop Closure
13:00 – 14:00	<p>Lunch</p> <p>Restaurant Barbakan Ul. Ruđera Boškovića 3, Zadar</p>
14:00 – 16:00	Guided Tour of Zadar



Workshop Locations



Rectorate of the University of Zadar, Mihovila Pavlinovića 1, Zadar



Hotel A'mare, Ul. bana Josipa Jelačića 4A, Zadar



Restaurant Barbakan, Ul. Ruđera Boškovića 3, Zadar



Restaurant Butler, Obala kralja Tomislava 1, Zadar

(photo by Restaurant Butler)