



11th International Congress of Croatian Society of Mechanics
Vodice (Šibenik), Croatia, September 30 – October 3, 2025

Organised by
Croatian Society of Mechanics



Under the Auspices of
Central European Association for Computational Mechanics



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

Congress Venue

Hotel Olympia, Ljudevita Gaja 6, 22211 Vodice, Croatia

Plenary Lectures

Bert BLOCKEN

Heriot-Watt University and KU Leuven

*Pure or Practical? How Some of the Most Stringent Requirements in
Numerical Fluid Mechanics can be Relaxed in Practical Case Studies
in Urban Physics and Wind Engineering*

Laura DE LORENZIS

ETH Zürich

Variational Phase-field Modeling of Fracture: Towards Second-Generation Models

Wing Kam LIU*, Chanwook Park, Jiachen Guo, Gino Domel, Hantao Zhang

*Northwestern University and Co-Founder of HIDENN-AI, LLC

*AI-Empowered CAE via Software 3.0: Applications in Digital Twins,
Additive Manufacturing, and Electron Design Automation*

Jörg SCHRÖDER, Maximilian Vorwerk

University of Duisburg-Essen

Micromagnetic Simulations of Strongly Heterogeneous Magnetic Materials

Special Sessions

SS01 - Emerging Trends in Mechanical Metamaterials

organized by

Giuseppe Failla and Andrea Russillo

University of Reggio Calabria, Italy

SS02 - Mechanics of Non-Conventional Materials and Structures

organized by

Raffaele Barretta, University of Naples Federico II, Italy

Noël Challamel, Université Bretagne Sud, France

Nicholas Fantuzzi, University of Bologna, Italy

Marzia Sara Vaccaro, University of Naples Federico II, Italy

SS03 - State-of-the-Art on the Dynamic Behaviour of Materials and its Applications

organized by

Borja Erice, Mondragon Unibertsitatea & IKERBASQUE, Spain

Louise Le Barbenchon, Arts et Métiers, I2M, France

Nina Čeh, University of Rijeka, Croatia

Maria Lißner, University of Oxford, United Kingdom

General Information

The duration of plenary lectures is 45 minutes.

The duration of contributed lectures is 15 minutes, followed by 3 minutes for discussion.

All session rooms will be equipped with a laptop computer with Microsoft Office and Adobe Reader installed.

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

Technical staff will be present in each lecture room at least 10 minutes before the session begins. All session participants are expected to upload their presentations during this time.

Participants are required to wear Congress badges within the Congress area at all times.

Social Programme

The Welcome Cocktail is scheduled for Tuesday, from 19:00 to 20:00, at the poolside terrace of Hotel Olympia. In case of adverse weather conditions, the event will be held in the Aperitiv Bar.

The Congress Excursion will take place on Thursday afternoon.

The Gala Dinner will be held on Thursday at 20:30 in Restaurant Olympia at Hotel Olympia.

The Post-Congress Excursion will be held on Saturday.

Participants will receive vouchers for lunches and the above events, which should be shown to the organizer when attending.

Contact

For any inquiries, please contact the Congress Technical Organizers:

URKA d.o.o. - Perfectmeetings.hr. Contact person: Nina Dumančić

✉ nina.dumancic@perfectmeetings.hr

or

✉ iccm2025@csn.hr

web: <https://csn.hr/iccm2025/>



PROGRAMME AT A GLANCE

	Tuesday Sep 30	Wednesday Oct 1	Thursday Oct 2	Friday Oct 3	Saturday Oct 4
08:00		Registration			Extra: Post-Congress Boat Trip to Krka NP (Departure 08:50)
09:00		Opening Ceremony	Plenary Lecture	Plenary Lecture	
10:00		Plenary Lectures	Contributed Sessions SS01 & FE	Contributed Sessions SS03 & ML	
11:00		Coffee Break	Coffee Break	Coffee Break	
12:00		Contributed Sessions	Contributed Sessions	Contributed Sessions	
13:00		SS02p1 & ID	WE & App2	SS02p2 & NT	
14:00		Lunch	Lunch	Lunch	
15:00		Contributed Sessions SM & EMp1	Congress Excursion to Šibenik (Departure 14:20)	Contrib. Sess. EMp2	
16:00		Coffee Break		Award Session	
17:00				Closing Ceremony	
18:00		Contributed Sessions FF & APp1			
19:00	Registration				
20:00	Welcome Cocktail				
21:00					
22:00			Gala Dinner		

DETAILED PROGRAMME

Monday, September 29

12:00 - 19:00 Registration
Hotel Olympia

Tuesday, September 30

08:00 - 19:00 Registration

19:00 - 20:00 Welcome Cocktail
Hotel Olympia – Poolside Terrace or Aperitiv bar

Wednesday, October 1

08:00 - 19:00 Registration

09:00 - 09:30 Opening Ceremony
Lecture room “Olympia”

09:30 - 11:00 Session P1
Lecture room “Olympia”
Session Chairs: Bert Blocken and Jurica Sorić

Plenary Lecture:

Wing Kam Liu*, Chanwook Park, Jiachen Guo, Gino Domel, Hantao Zhang

*Northwestern University and Co-Founder of HIDENN-AI, LLC

***AI-Empowered CAE via Software 3.0: Applications in Digital Twins,
Additive Manufacturing, and Electron Design Automation***

Plenary Lecture:

Jörg Schröder, Maximilian Vorwerk

University of Duisburg-Essen

Micromagnetic Simulations of Strongly Heterogeneous Magnetic Materials

11:00 -11:30 Coffee Break

11:30 - 13:30 Contributed Sessions SS02p1 & ID

Special Session SS02p1: Mechanics of Non-Conventional Materials and Structures (Part 1)

Lecture room "Olympia"

Session Chairs: Raffaele Barretta and Marzia Sara Vaccaro

De Angelis, F.

Variational Formulations in Plasticity and Viscoplasticity with a Consistent Derivation of Computational Algorithms

Charandabi, R. N., de Castro Motta, J., Carpentieri, G., Bonada Bo, J., Fraternali, F., Amendola, A.
Innovative Tensegrity-Based Roof Structures with Integrated Sun-Tracking Mechanisms

Cheng A. Y., Vescovini, R., Fantuzzi, N., Luciano, R.
A C^2 -Finite Element Formulation for Strain Gradient Kirchhoff Nanoplates Using Hierarchical Hermite Basis Functions

Penna, R., Lovisi, G., Feo, L.

Integral solution of Stress-Driven Nonlocal Model with Morozov Regularization on Different Nonlocal Kernels

Penna, R., Lovisi, G., Lambiase, A., Landi, G., Feo, L.
Micromechanical Model and Experimental Investigation of the Piezoelectric Response in CNTs - Based Cement Composites

Vaccaro, M. S., Barretta, R., Luciano, R., Marotti de Sciarra, F.
Stress-Driven Nonlocal Elasticity for Higher-Order Nanobeams

Session ID: Inelasticity and Damage

Lecture room "Riva"

Session Chairs: Vedrana Cvitanić and Mikhail Itskov

Adamec, T., Sebek, F., Petruska, J.

On Limitations of the Chaboche Model in Uniaxial Ratcheting Predictions

Andrade, D. G., Cvitanić, V., Simões da Silva, L., Rodrigues, D. M.

Characterisation of Elastic and Plastic Anisotropy in 316L Austenitic Stainless Steel Produced by WAAM

Barlat, F.

Distortional Plasticity and Associated Thermodynamics

Jurčević, A., Lesičar, T., Tonković, Z., Sorić, J.

A Multiscale Approach to Damage Modelling in Heterogeneous Materials Using Phase-Field Method

Schmid, S. J., Ouzia, A., Königsberger, M., Pichler, B.
Characterization of Early-Age Creep Behavior and Strength of Low Carbon Cement Pastes and Multiscale Strength Modeling

Vukovojac, M., Jalušić, B., Lesičar, T., Skozrit, I., Tonković, Z.

Finite Element Modeling of Residual Stress Development and Damage Progression in Welded Components

13:30 - 14:30 Lunch

14:30 - 16:00 Contributed Sessions SM & EMP1

Session SM. Structural Mechanics

Lecture room "Olympia"

Session Chairs: Nenad Gubeljak and Rosa Penna

Hadžalić, E., Škec, L., Ibrahimbegović, A.

DCB Test Modelling Using a Beam-on-Foundation Framework with Inelastic DCB Arms and Adhesive

Jelenić, G., Ribarić, D.

Pure Bending of Rectangular Prism Including Anticlastic Deformation in Cosserats' Continuum – Analytical Approach

Pavić, D., Šodan, M., Friedman, N., Nikolić, M.

Bayesian Approach for Identifying Elastic Parameters and Coefficients for Lattice Element Models

Smojver, I., Ivančević, D., Ušurić, F.

Constitutive Modelling of FDM Printed Continuous Fibre Composites

Vukasović, M., Kustura, D., Vlak, F., Pavazza, R.,
Matić, T.

Stress and Displacement Analysis of a Thin-walled Curved Beam Subjected to the Eccentric Uniformly Distributed Line Load

Session EMP1. Experimental Mechanics (Part 1)

Lecture room "Riva"

Session Chairs: Lovre Krstulović-Opara and Zoran Ren

Horvat, A., Hercigonja, T., Drvar, N.

From 3D Scan to Functional Component: Experimental Redevelopment of a Damaged Component

Novak, N., Al-Ketan, O., Mauko, A., Vesenjaj, M.,
Ren, Z.

Assessing Additively Manufactured TPMS Structures Under High-Speed Loading

Porubsky, M., Havelka, J., Rychnovsky, P., Novak, J.
Thymos - A Compact, Open-Hardware Testing Frame for Small-Scale Mechanical Experiments

Šodan, M., Divić, V., Friedman, N., Nikolić, M.
Bayesian Parameter Identification of Non-Standard Aluminum Specimens Using Simple Laboratory Measurements

Tomerlin, D., Kozak, D., Gubeljak, N., Damjanović, D.
Tensile Testing of Welded Joints Using Small-Scale Specimens

16:00 - 16:30 Coffee Break

16:30 - 18:30 Contributed Sessions FF & APp1

Session FF. Fracture and Failure

Lecture room "Olympia"

Session Chairs: Dražan Kozak and Matej Borovinšek

Chapetti, M. D., Gubeljak, N.

A Fracture Mechanics-Based Approach for Material Defects and Fatigue Assessment: Highlighting the Role of the Intrinsic Fatigue Limit

Session APp1. Applications (Part 1)

Lecture room "Riva"

Session Chairs: Ivica Skozrit and Pavel Polach

Adamović, P., Matoc, L., Sabalić, S., Kodvanj, J.
Strength and Stability of Conventional and Variable Locking Screws in Healthy and Osteoporotic Mandibular Angle Fractures: A Finite Element Study & Pre-Study

Ivančević, D., Ratković, J. <i>Phenomenological Modelling of Impact-Induced Delamination in Composite Laminates</i> Nikolić, M., Stanić, A., Friedman, N., Matthies, H. G. <i>Embedded Discontinuity Dynamic Fracture Model and Bayesian Identification of Parameters</i> Šegon, A. M., Lesičar, T. <i>A Hybrid Computational Framework for Phase-Field Brittle Fracture Modelling</i> Škec, L., Jurković, D., Alfano, G. <i>Simulation of Adhesive Debonding in Fracture-Mechanics Tests Using a Novel Hybrid Analytical-Numerical Model</i> Tomičević, Z., Zaplatić, A., Smaniotto, B., Hild, F. <i>DVC Analysis of Failure Modes in Glass Plain-Weave Fabric Composites Under On- and Off-Axis Loading</i>	Ban, D. <i>On Newly Discovered Hydrostatic Rotation Properties of Immersed Isosceles Triangular Cross-section Pontoon</i> Haramina, K., Kranjčević, N., Deur, J., Ruškan, I., Hoić, M. <i>Mechanical Modelling of Active Seat Suspension System Based on Scott-Russell Mechanism</i> Jurković, D. T., Brčić, M. <i>Numerical Structural Analysis of Steel Frames Used in Belt Conveyors</i> Opačak, D., Damjanović, D., Kozak, D., Gubelj, N. <i>Numerical Analysis of the Influence of Pipe Support Stiffness in Pipeline Systems</i> Pavel Polach, Michal Hajžman, Luboš Smolík <i>Design of Helical Springs for Vibratory Sorter Mounting</i>
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Thursday, October 2
08:00 - 14:00 Registration
08:30 - 09:15 Session P2 Lecture room "Olympia" Session Chairs: Laura De Lorenzis and Wing Kam Liu Plenary Lecture: Bert Blocken Heriot-Watt University and KU Leuven <i>Pure or practical? How Some of the Most Stringent Requirements in Numerical Fluid Mechanics Can be Relaxed in Practical Case Studies in Urban Physics and Wind Engineering</i>

09:30 - 11:00 Contributed Sessions SS01 & FE

Special Session SS01: Emerging Trends in Mechanical Metamaterials

Lecture room "Olympia"

Session Chairs: Giuseppe Failla and Andrea Francesco Russillo

Burlon, A., Lo Iacono, F., Navarra, G., Failla, G.
A Novel Metamaterial Design Based on a Multiple Beam System with Internal Local Resonance

Failla, G., Russillo, A. F.
Water-Tank Metabarriers as a Novel Concept of Seismic Metamaterials

Morosavljević, J., Kozak, D., Morosavljević, I., Li, W.
Optimization of the Boat Ceiling Supports Using Diamond Lattice Structure

Rikić, A., Nečemer, B.
Low-Cycle Fatigue Analysis of Different TPMS Metamaterials

Servadei, R.
Fractional Problems: Theory and Applications

Session FE: Finite Element Method

Lecture room "Riva"

Session Chairs: Darko Damjanović and Janos Logo

Banić, D., Turkalj, G., Lanc, D.
Advanced Finite Element Model for Stability Analysis of Laminated Beam-Type Structures

Grbčić Erdelj, S., Jelenić, G., Ibrahimbegović, A.
Geometrically Non-Linear Hexahedral Micropolar Finite Element Enhanced with Incompatible Modes

Gruttmann, F.
A FE2 Model for Thin and Thick Shells with Periodic Boundary Conditions

Sauren, B., Klinkel, S.
On the Stabilization of a Low-Order Polytopal Mixed Displacement-Pressure Finite Element Formulation

Tóth, B.
Mixed hp-Finite Element Framework for Modeling Laser Pulse Heating Processes in Irreversible Thermodynamics

11:00 - 11:30 Coffee Break

11:30 - 13:30 Contributed Sessions WE & App2

Session WE. Wind Engineering

Lecture room "Olympia"

Session Chairs: Hrvoje Kozmar and Ivo Marinić-Kragić

Ban, D., Barle, J., Perišić, S.
On Direct Method for Calculation of Joint CDF of Directional Wind Spectrum using L1 norm PRBF

Session App2: Applications (Part 2)

Lecture room "Riva"

Session Chairs: Antonia Jaguljnjak Lazarević and Jindrich Petruška

Borovinšek, M., Ignatijev, A., Belšak, A., Glodež, S.
Analysing the Wear Behaviour of Polymer Gears

Buljac, A., Škvorc, P., Yang, W., Kareem, A., Kozmar, H. <i>Dynamic Response of Floating Wind Turbines Subjected to Wind, Current and JONSWAP Waves</i> Ivanković, M., Jentzsch, M., Rahel Großmann, A.F., Zimmermann, V., Manolesos, M., Nayeri, C. N., Kozmar, H. <i>Dynamic Stall Control of Wind-Turbine Blades Equipped with Vortex Generators and Gurney Flaps</i> Jelašić, M., Irrenfried, C., Brenn, G., Kozmar, H. <i>Wind-Driven Natural Ventilation of Elongated Building Structures</i> Marinić-Kragić, I., Čolović, T., Nekić, M. <i>Gurney Flap Effects on Savonius Turbine Performance: Aerodynamic and Structural Insights from Integrated CFD and Wind Tunnel Analysis</i> Sokol, I., Čatipović, I., Hadžić, N., Kozmar, H. <i>Environmental Loads on Offshore Engineering Structures</i>	Cardoso, C., Sousa, R., Fernandes, F., Silva, A. <i>Development and Validation of Sex-Specific Finite Element Head Models</i> Lozina, Ž., Sedlar, D., Tomac, I. <i>Motion of the Body on Rough Surface Under Random Kinematic Excitation</i> Mališ, T., Jaguljnjak Lazarević, A., Hrženjak, P. <i>Modelling of an Underground Quarry of Dimension Stone: the Possibility of Expanding the Excavation</i> Morosavljević, I., Kozak, D., Morosavljević, J., Konjatić, P. <i>Comparison of Analytical and Numerical Calculations of the Steel Shell Silo Reinforced with Thin Rings</i> Škifić, J., Čarija, Z. <i>Numerical Simulations of Hydraulic Transients in HPP Zakučac</i>
13:30 - 14:20 Lunch	
14:20 -19:00 Congress Excursion to Šibenik Meeting Point - Hotel Olympia Lobby / In Front of the Hotel at 14:20	
20:30 Gala Dinner Hotel Olympia – Restaurant Olympia	

Friday, October 3
08:00 - 19:00 Registration
08:30 - 09:15 Session P3 Lecture room “Olympia” Session Chairs: Jörg Schröder and Friedrich Gruttmann Plenary Lecture: Laura De Lorenzis ETH Zürich <i>Variational Phase-Field Modeling of Fracture: Towards Second-Generation Models</i>

Special Session SS03 - State-of-the-Art on the Dynamic Behaviour of Materials and its Applications

Lecture room "Olympia"

Session Chairs: Nina Čeh and Maria Lišner

Čeh, N., Sindičić, I., Janković, A., Škec, L.
Modelling the Dynamic Response of Masonry-Binder Assemblies with Compliant Adhesive Interfaces

Jurković, D., Škec, L., Alfano, G.
Study of the Rate-Dependent Mixed-Mode Adhesive Debonding Using an Efficient Numerical Model

Le Barbenchon, L., Erice, B., Lee, J., Čeh, N., Lišner, M.

Energy Dissipation in Polymer-Based Mechanical Metamaterials Under Dynamic Loading Rates

Tantawi, M., Merczel, D.B., Logo, J.
Long-Term Effects on CLT-Concrete Composite Slabs

Žnidarič, Ž., Novak, N., Glodež, S., Nečemer, B.
High-Cycle Fatigue Behaviour of Gyroid TPMS Metamaterial

Session ML. Machine Learning in Mechanics

Lecture room "Riva"

Session Chairs: Mijo Nikolić and Domen Očeppek

Bagavac, P., Grebo, A., Medvidović, A., Nikolić, Ž., Krstulović-Opara, L.
Automatic Recognition of the Structural Integrity of Buildings in Kaštela Bay Using CNN Models Supported by IR Thermography

Caracoglia, L., Čanađija, M.
Application of Artificial Neural Networks in Structural Mechanics: Energy Harvesting Problems

Itskov, M., Abdusalamov, R.
Constitutive Modeling of Soft Materials by Deep Symbolic Regression

Štimac Rončević, G., Skoblar, A., Braut, S., Žigulić, R., Turkalj, G.

Regression-Based Machine Learning for Predicting Natural Frequencies of Thin Beams Supported by Translational Springs

Zlatić, M., Čanađija, M.
Recovering Isotropic Energies with Mullins-Type Damage using Physics-Augmented Neural Networks

11:00 - 11:30 Coffee Break

11:30 - 13:30 Contributed Sessions SS02p2 & NT

Special Session SS02p2: Mechanics of Non-Conventional Materials and Structures (Part 2)

Lecture room "Olympia"

Session Chairs: Raffaele Barretta and Marzia Sara Vaccaro

Ammendolea, D., Greco, F., Leonetti, L., Lonetti, P., Pascuzzo, A.

A Data-Driven Multiscale Approach for the Numerical Prediction of Damage Evolution in Anisotropic Composite Materials

Session NT. Various Numerical Techniques

Lecture room "Riva"

Session Chairs: Marino Brčić and Ricardo de Sousa

Gáspár, C.
Solving Biharmonic and Bi-Helmholtz Problems by a Localized Method of Fundamental Solutions

Caporale, A., Cima, V., Vaccaro, M. S., Barretta, R., Luciano, R. <i>A FEM Iterative Approach to the Nonlocal Integral Elasticity of Nanoplates</i> Čanađija, M., Ivić, S. <i>Carbon Nanotube Nanotrusses as Building Blocks of Advanced Metamaterials: An MD-ML-FE Optimization Framework</i> Das, B., Barretta, R., Čanađija, M. <i>Dynamics of Stress-Driven Nonlocal Beams Using PINN Approach</i> Placidi, L., Misra, A., Fabbrocino, F., Luciano, R. <i>Granular Micromechanics Based Formulation of Damage-Elasto-Plasticity: Hysteric Cycles and Fatigue</i> Romano, G., Barretta, R., Diaco, M. <i>On Clapeyron Theorem in Linear Elasticity</i>	Grbac, L., Jelenić, G. <i>Application of Fixed-Pole Interpolation in Vibration Analysis of 3D Micropolar Continuum</i> Jalušić, B., Jarak, T., Vukovojac, M., Sorić, J., Tonković, Z. <i>On the Boundary Conditions in Meshless Collocation Methods for Solving Heat Conduction Problems</i> Očepek, D., Korbar, J., Čepon, G. <i>On the Use of Sparse Regression for Experimental Joint Identification in Frequency-Based Substructuring</i> Sedlar, D., Lozina, Ž., Tomac, I. <i>Integration Scheme with Modal Analysis and Modal Superposition for Non-Linear Problems</i> Skoblar, A., Štimac Rončević, G., Žigulić, R., Čanađija, M. <i>Numerical Strategies for Finding Roots of Transcendental Characteristic Equations</i>
13:30 - 14:30 Lunch	
14:30 - 15:30 Contributed Session EMp2	
Session EMp2. Experimental Mechanics (Part 2) Lecture room "Olympia" Session Chairs: Darko Ivančević and Sara Grbčić Erdelj Gotovac, H., Zelenika, M. <i>Flow and Transport Karst Modelling: Salt and Heat Tracer Tests in 3-D Laboratory Physical Models</i> Kraus, I., Lavorato, D., Colitta, A., Olić Miloš, P. <i>Seismic Response of a Traditional Rammed Earth Sub-Assembly: Experimental and Numerical Study</i> Lemos, L., Serra, G., Sousa, R., Fernandes, F., Sousa, G. <i>Dynamic Compressive Behavior of Cork Agglomerates Combined with Shear Thickening Fluids: Experimental and Computational Approaches</i> Mihaljec, B., Vukelić, G. <i>Experimental Analysis of Marine Environment Effects on the Additively Manufactured Stainless Steel AISI 316L</i>	

15:30 - 15:45 Award Session

Winner of the 2025 Young Scientist Award of the Croatian Society of Mechanics

Lecture room "Olympia"

Session Chairs: Marko Čanađija and Leo Škec

Grozdanić, G., Galić, M., Divić, V.

Different Approaches in Numerical Modelling of LG Structures

15:45 - 16:00 Closing Ceremony

Lecture room "Olympia"

Saturday, October 4

08:50 - 17:00 Post-Congress Excursion – Boat Trip to Krka National Park

Meeting Point – Hotel Olympia Lobby / In Front of the Hotel at 08:50

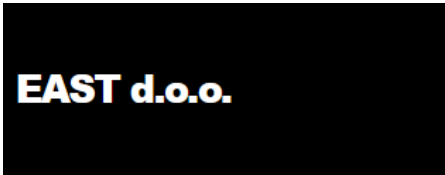
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Notes