

ETAMM 2026
Conference Schedule
Minisymposia and rooms

MS	Title	Room
MS1	Variational and monotonicity methods in PDEs with applications	AULA MAJOR, ground floor
MS2	Recent developments in nonlinear analysis and its applications	AULA MINOR, ground floor
MS3	Asymptotic methods in solid and fluid mechanics	AULA MINOR, ground floor
MS4	Energy harvesting, smart self-power sensors, machine structure dynamics and diagnostics	Room 1.05, first floor
MS5	Uncertainty quantification and microstructural disorder	ARENA MAGICA
MS6	Numerical Analysis and Computational Methods for Mechanics	ARENA MAGICA, ground floor
MS7	Recent advances in non-linear and non-smooth computational mechanics	Room 1.05, first floor
PL	Plenary sessions	AULA MAJOR, ground floor

Wednesday, September 2

08:30-09:00 Registration (entrance desk)

09:00-09:15 Opening (chair: M. Galewski; welcome words: M. Sofonea, M. Kaminski, The Rector in charge of development - prof. A. Wojciechowski)

09:15-10:55 Plenary Session (AULA MAJOR), chair: Stanisław Migórski

09:15-09:55 Gabriele Bonanno

Optimal threshold values and local minimizers

10:05-10:45 Noël Challamel

Analytical and numerical approaches in nonlocal and peridynamic structural mechanics

10:55-11:30 Coffee Break

11:30-14:00 Minisymposia

Time	MS1, AULA MAJOR chair: P. Candito	MS3, AULA MINOR chair: Á. Arós	MS5, ARENA MAGICA chair: M. Kamiński
11:30-11:55	Maria-Magdalena Boureau <i>Convergence and Well-Posedness of Nonlinear Elliptic Systems</i>	Lucas Venturato <i>Asymptotic Analysis of Linearly Elastic Flexural Shells in Normal Compliance Contact</i>	Sei-ichiro Sakata <i>Probabilistic strength analysis of UDFRP plate under transverse tensile loading using random field modeling considering random microscopic geometry and material properties</i>
12:00-12:25	Gustavo Ferron Madeira <i>A Critical Neumann Problem with Anisotropic p-Laplacian</i>	Célio Fernandes <i>Asymptotic Analysis of Adhesive Contact in Elastic Membrane Shells</i>	Radosław Iwankiewicz <i>Exponential polynomial closure method for dynamical systems under renewal impulse process excitation</i>

Time	MS1, AULA MAJOR chair: P. Candito	MS3, AULA MINOR chair: Á. Arós	MS5, ARENA MAGICA chair: M. Kamiński
12:30-12:55	Krzysztof Bartosz <i>Mathematical Analysis of a Contact Problem for a Non-Clamped Nonlinear Viscoelastic Rod</i>	Eduard Marušić-Paloka <i>A new light on the interface condition between the flow in a porous medium and the free flow</i>	Hanna Weber <i>Development of a simplified analytical model for dynamic analysis of lattice towers with variable cross-section</i>
13:00-13:25	Angela Sciammetta <i>Localization Results for Elliptic Systems with Intrinsic Operators</i>	José Manuel Rodríguez <i>Mathematically rigorous justification of the Reynolds equation for a spherical bearing</i>	Albo Nadir <i>Moment Propagation versus Design-Point Search: The Stochastic Perturbation Method Convergence in Tunnel Reliability</i>
13:30-13:55	Stanisław Migórski <i>A Navier-Stokes-Darcy Hemivariational Inequality</i>	Ángel Arós <i>On the Justification of a Contact Problem for Generalized Membrane Shells</i>	Rafał L. Ossowski <i>Shannon Entropy as a Universal Metric for Uncertainty Quantification of Transport Phenomena and Phase Transitions in Computational Mechanics</i>

14:00-15:00 Lunch with coffee (hall, ground floor)

15:00-17:30 Minisymposia

Time	MS1, AULA MAJOR chair: L. Gasiński	MS2, AULA MINOR chair: M.M. Boureau	MS5, ARENA MAGICA chair: R. Iwankiewicz	MS7, 1.05 (first floor) chair: F. Bonaldi
15:00-15:25	Giuseppe Failla <i>Multiple Solutions for the p-Laplacian Equation with Convection</i>	Witold Majdak <i>Singular elliptic equations with $(p(z), q(z))$-growth</i>	Marcin Kamiński, Relative entropy-based reliability assessment for nearly Gaussian responses of the steel structures	Gabriele Marchi <i>MaMAL: Matrix-free Multigrid Augmented Lagrangian Method for Contact</i>
15:30-15:55	Pierluigi Vellucci <i>Symmetry, Scaling, and Optimal Time-Frequency Concentration: Minimising the Heisenberg Uncertainty in Piecewise-Polynomial and Wavelet Dictionaries</i>	Piotr Kowalski <i>Three Solutions for a Multivalued Duffing-Type Dirichlet Problem</i>	Hadi Asghari <i>On an isotropic porous solid cylinder: the sensitivity analysis of the pressure, stresses, and displacement</i>	Francesco Bonaldi <i>A unified semi-smooth Newton framework for large-strain SMA contact: application to stent deployment</i>
16:00-16:25	Robert Stańczy <i>Generalized Kolmogorov System</i>	Urszula Ostaszewska <i>Existence and Asymptotic Equivalence of Solutions to Nonlinear Volterra-Type Difference Equations</i>	Safdar Iqbal <i>Mechanical response of the cellular material with incorporation of Fiber</i>	Radosław Matusik <i>Sufficient Conditions for Finite-Time and Fixed-time Stability of Time-Varying Differential Equations Using Dual Dynamic Programming</i>
16:30-16:55	Bartosz Wołek <i>Constant Sign and Nodal Solutions for Double Phase Problems with Power-Type Nonlocal Nonlinearities</i>	Małgorzata Zdanowicz <i>Properties of Summation Equations of Volterra Type Involving the p-Laplacian</i>	Rafał Błński <i>Reliability response surfaces for a nonlinear deflection problem under geometric uncertainty</i>	Daniele Ussorio <i>On nonlinear mechanics of 1-D elastic structures</i>
17:00-17:25	Umberto Guarnotta <i>Strong Solutions to Singular Discontinuous p-Laplacian Problems</i>			Mircea Sofonea <i>Well-posedness analysis of a unilateral contact problem</i>

17:30-19:30 Welcome Drink (Reception with coffee, tea, wine and light food); toast: Mircea Sofonea (hall, ground floor)

Thursday, September 3

09:15-10:55 Plenary Session (AULA MAJOR), chair: Pasquale Candito

09:15-09:55 Raffaele Barretta

Genesis, Degeneracy and Progress in Nonlocal Structural Mechanics

10:05-10:45 Wojciech Kryszewski

From Perov Contractions to Nonexpansive Mappings: A Spectral Approach to Fixed Points in Product Spaces

10:55-11:30 Coffee Break

11:30-14:00 Minisymposia

Time	MS1, AULA MAJOR chair: A. Ochal	MS2, AULA MINOR chair: U. Guarnotta	MS6, ARENA MAGICA chair: K. Bartosz
11:30-11:55	Agnieszka Kałamajska <i>Existence and Regularity for Certain Quasilinear Problem Involving Elliptic Operator in the Nondivergent Form</i>	Josef Diblík <i>Global and semi-global monotone solutions of advanced nonlinear differential equations with state-dependent arguments</i>	Michał Guminiak <i>The Boundary Element Method in Deterministic and Probabilistic Approaches for Surface Girder Mechanics Problems</i>
12:00-12:25	Ivana Crnjac <i>Homogenisation of fractional diffusion problems</i>	Jacek Banasiak <i>Network transport with nonlinear dynamics</i>	Kundan Kumar <i>Coupled flow and mechanics in a fractured porous medium</i>
12:30-12:55	Ivan Vuković <i>Homogenization theory of the Reissner-Mindlin plate equation</i>	Jitka Machalova <i>Buckling of a Gao Beam under Combined Axial and Vertical Loading</i>	Andrzej Myśliński <i>Adhesive rolling contact problem with elastoplasticity and hardening</i>
13:00-13:25	Bruno Vassalo <i>Convergence Analysis of Systems with Fixed Point Structure</i>	Sabrina Roscani <i>Self-similar solutions as large-time asymptotics for space-fractional Stefan problems</i>	Jana Burkotová <i>Guaranteed Bounds for the Critical Buckling Load of the Euler-Bernoulli and Gao Beam Models</i>
13:30-13:55	Karolina Fisiak <i>Equilibria on Simplices in Hilbert Spaces</i>	Pasquale Candito <i>Uniqueness results for nonlinear Dirichlet problems</i>	Piotr Bartman-Szwarc <i>Numerical treatment of dynamic contact problems with the Damped Normal Compliance condition</i>

14:00-15:00 Lunch with coffee (hall, ground floor)

15:00-17:00 Special Session, chair: Mircea Sofonea

Recent trends in mathematics and mechanics, Hybrid

17:15-18:45 General Plenary Lecture (AULA MAJOR), chair: Marek Majewski

17:15-17:55 Ścibór Sobieski, Cyber security in AI

18:05-18:45 Marcin Kamiński, AI in teaching of mathematics and mechanics

19:00-21.30 Conference Dinner (**ZATOKA SPORTU (Sports and Education Centre) - II FLOOR- ROOM A i B**)

Friday, September 4

08:45-09:25 Plenary Session (AULA MAJOR), chair: Josef Diblík –

Vicentiu Radulescu

Non-autonomous (p, q) -equations and some perspectives

09:35-11:05 Minisymposia

Time	MS1, AULA MAJOR chair: L. Gasiński	MS2, AULA MINOR chair: G. Failla	MS4, 1.05 (first floor) chair: Piotr Wolszczak	MS6, ARENA MAGICA chair: K. Bartosz
09:35-10:00	Marek Majewski <i>On a Mixed p-Laplacian and Fractional Laplacian Problem</i>	Loredana Dafinoiu <i>Convergence Analysis of Systems with Fixed Point Structure</i>	Arkadiusz Mystkowski <i>Autonomous agriculture machine health monitoring systems using convolutional neural networks optimized by genetic</i>	Jaroslav Kruis <i>Thermo-hydro-mechanical analysis in the vicinity of tunnel excavation</i>
10:05-10:30	Igor Kossowski <i>Equations with a Generalized Fractional Laplacian: Different Approaches</i>	Elżbieta Motyl <i>Korteweg-de Vries equation perturbed by a random force</i>	Arkadiusz Nieciecki <i>Proposal of Adaptive Computed Torque Controller for Manipulators under Payload Uncertainties</i>	Michał Jureczka <i>A Multilevel Graph Neural Network Framework for Model Reduction in Contact Mechanics</i>
10:35-11:00	Krzysztof Jelito <i>Multiplicity Results for the Nonlinear Weighted Laplacian Equation on the Sierpiński Gasket</i>	Anna Ochal <i>Generalized History-Dependent Operators and Their Applications</i>	Kamil Felter <i>Performance Evaluation of YOLOv26 Architectures in Rotary Tedder Tooth Damage Detection</i>	Magdalena Nockowska-Rosiak <i>Inverse-free Newton's Method</i>

11:05-11:30 Coffee Break

11:30-13:00 Minisymposia

Time	MS1, AULA MAJOR chair: A. Ochal	MS2, AULA MINOR chair: E. Tornatore	MS4, 1.05 (first floor) chair: Arkadiusz Mystkowski
11:30-11:55	Aleksandra Orpel <i>Dependence of positive solutions on functional parameters for a certain class of elliptic problems</i>		Piotr Wolszczak <i>Analysis of a bluff body geometry through vibrations induced by low-speed air vortices while harvesting energy using a piezoelectric cantilever</i>
12:00-12:25	Wiktor Burakowski <i>Weak Solutions of Elliptic Problems in Exterior Domains</i>	Leszek Gasiński <i>On quasilinear nonlocal problems of variational and non-variational types</i>	Mateusz Zalewski <i>RBF-Based Adaptive Control Concept for a 6-DOF Flexible Manipulator: A Simulation Study on Precision and Energy Efficiency</i>
12:30-12:55	Krzysztof Garbowski <i>Existence and Location of the Solutions to Singular Elliptic Problems in the Exterior Domain</i>	Michał Beldziński <i>Weak Solutions to Semilinear Elliptic Equations with Nonlocal Boundary Conditions of Dirichlet Type</i>	

13:10-13:50 Plenary Session (AULA MAJOR), chair: Marcin Kamiński –

Stanisław Stupkiewicz

Modelling of Transformation Patterns in Pseudoelastic Shape Memory Alloys

14:00 Closing (chair: Marcin Kamiński; farewell words: M. Galewski, M. Sofonea, Rector in charge of science, Prof. Łukasz Albrecht)

14:15-15:15 Lunch with coffee (hall, ground floor)

15:30-17:30 Excursion (Gathering point: hall of Zatoka Sportu, in front of the mural, 15:15; departure of the sightseeing tram at 15:30 sharp)