



ZILELE ACADEMICE CLUJENE

Ediția
XXXVIII

PROGRAMUL MANIFESTĂRIILOR

Octombrie - Noiembrie 2025



Institutul de Lingvistică și Istorie Literară
„Sextil Pușcariu”

Institutul de Istorie
„George Barițiu”

Centrul de Studii Transilvane

Centrul de Cercetări Geografice

Institutul de Cercetări Socio-Umane
„Gheorghe Șincai”, Târgu Mureș

Biblioteca Academiei Române
Cluj-Napoca

Institutul Arhiva de Folclor

Institutul de Calcul
„Tiberiu Popoviciu”

Departamentul de Cercetări Socio-Umane
Institutul de Istorie „George Barițiu”

Observatorul Astronomic

Institutul de Speologie
„Emil Racoviță”

Institutul de Arheologie și Istoria Artei

ACADEMIA ROMÂNĂ FILIALA CLUJ-NAPOCA



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CRONOLOGIC

Octombrie - Noiembrie 2025

7 -30 octombrie	Institutul de Lingvistică și Istorie Literară „Sextil Pușcariu”
16-17 octombrie	Institutul de Istorie „George Barițiu”
22-23 octombrie	Centrul de Studii Transilvane
24 octombrie	Centrul de Cercetări Geografice
30 octombrie	Institutul de Cercetări Socio-Umane „Gheorghe Șincai”, Târgu Mureș
30 - 31 octombrie	Biblioteca Academiei Române Cluj-Napoca
3-6 noiembrie 2025	Institutul Arhiva de Folclor
3-6 noiembrie 2025	Institutul de Calcul „Tiberiu Popoviciu”
7 noiembrie - 21 noiembrie	Departamentul de Cercetări Socio-Umane Institutul de Istorie „George Barițiu”
12 noiembrie	Observatorul Astronomic
19 noiembrie	Institutul de Speologie „Emil Racoviță”
20-28 noiembrie	Institutul de Arheologie și Istoria Artei

INSTITUTUL DE CALCUL „TIBERIU POPOVICIU”

**Analiză numerică, modelare numerică și teoria aproximării
(Numerical Analysis, Numerical Modeling,
Approximation Theory- NA-NM-AT)**

3-6 noiembrie 2025

Conferință online, website:
<https://ictp.acad.ro/nanmat>
Organizatori: Emil Cătinaș, Mihai Nechita

Octavian Agratini (ICTP, Romanian Academy, Cluj-Napoca)- *Generalizations of approximation processes based on squared binomial polynomial bases functions*

Sebastian Anița (Octav Mayer Institute, Romania) - *(to be announced)*

Radu Bălan (University of Maryland, USA) - *Quantitative bounds for sorting based permutation invariant embeddings*

Benjamin Bogoșel (École Polytechnique, Palaiseau, France) - *Optimization of space-time periodic eigenvalues*

Imre Boros (ICTP, Romanian Academy, Cluj-Napoca) - *Accelerating 3D Richards Equation Simulations: Experiences with MATLAB and Alternatives*

Daniela Capatina (Université de Pau et des Pays de l'Adour, France)- *A posteriori error analysis based on equilibrated flux for a CutFEM interface problem*

Emil Cătinaș (ICTP, Romanian Academy, Cluj-Napoca) - *On the number of iterates in computing the functions of matrices*

Radu Cîmpeanu (University of Warwick, UK) - *Nonlinear control of falling liquid films*

Maria Crăciun (ICTP, Romanian Academy, Cluj-Napoca) - *Generalizations of approximation processes based on squared binomial polynomial bases functions*

Dan Crișan (Imperial College, UK) - *(to be announced)*

Ionut Danaila (Rouen) - *(to be announced)*

Madalina Deaconu (Lorraine) - *(to be announced)*

Edgar Dobriban (University of Pennsylvania, USA) - *How to use synthetic data for improved predictive inference*

Victorița Dolean (Eindhoven University of Technology) - *Local feature filtering for scalable and well-conditioned domain-decomposed random feature methods*

Ionuț Farcaș (University of Texas at Austin, USA)
Real-time prediction of plasma instabilities with sparse-grid-accelerated optimized dynamic mode decomposition

Călin-Ioan Gheorghiu (ICTP, Romanian Academy, Cluj-Napoca) - *Complex singularities of an initial-boundary value problem modelling viscous film flow*

Sorin Grad (ENSTA Paris, France) - *A fresh look at algorithms for solving smooth multiobjective optimization problems*

Andreea Grecu ("Gheorghe Mihoc – Caius Iacob" Institute of Mathematical Statistics and Applied Mathematics of the Romanian Academy) - *A Monte Carlo discretization method for nonlinear variational PDEs*

Eduard Grigoriuc (ICTP, Romanian Academy, Cluj-Napoca) - *A Stancu-Schurer type extension of higher order of the Cheney-Sharma operators*

Traian Iliescu (Virginia Tech, USA) - *Data-driven filters for large eddy simulation reduced order models*

Stelian Ion (ISMMA, Romanian Academy, Bucharest) - *Water soil erosion. Numerical methods*

Anastasia Istratuca (University of Edinburgh, UK) - *(to be announced)*

Hannelore Lisei (Babeş-Bolyai University, Cluj-Napoca) - *Approximation of nonlinear stochastic Schrödinger equations*

Andra Malina (ICTP, Romanian Academy, Cluj-Napoca) - *Methods for interpolating scattered data*

Andrei Manolache (University of Stuttgart, Germany) - *(to be announced)*

Tudor Manole (Massachusetts Institute of Technology, USA) - *(to be announced)*

Sorin Mitran (Univ. North Carolina at Chapel Hill) - *Adaptive information refinement for active media*

Cornel Murea (Université de Haute Alsace, France) - *Topology optimization problems for clamped plates*

Adrian Muntean (Karlstads Universitet, Sweden) - *A hybrid evolution model for preservation of cultural heritage: stochastic particles in a random continuum environment*

Mihai Nechita (ICTP, Romanian Academy and Babeş-Bolyai University, Cluj-Napoca) - *Data-driven methods and variational consistency for ill-posed PDEs*

Maria Neuss-Radu (Universität Erlangen-Nürnberg) - *Effective interface laws of Navier-slip-type for Stokes flow through a thin elastic porous layer*

Victor Nistor (Université Lorraine, France) - *The method of layer potentials for polygons and domains with cylindrical ends*

Darian Onchis (West University of Timișoara) - *Neuro-Symbolic Temporal Encodings with Adaptive Logic Constraints in Transformer Models*

Maria Oprea (Cornell University, USA) - *to be announced*

Diana Otrocol (ICTP, Romanian Academy and Technical University of Cluj-Napoca) - *Best Ulam constant of a partial differential operator*

Mircea Petrache (Pontifical Catholic University of Chile) - *Optimization and separability problems in equivariant deep learning*

Sorin Pop (Hasselt University, Belgium) - *to be announced*

Radu Precup (ICTP, Romanian Academy and Babeş-Bolyai University, Cluj-Napoca) - *Control of semilinear differential equations with moving singularities spaces*

Florin Radu (University of Bergen, Norway) - *Robust iterative schemes for Darcy and Darcy-Forchheimer flow in porous media*

Rareş Răhăian (Babeş-Bolyai University, Cluj-Napoca) - *On Tikhonov regularization for the elliptic Cauchy problem*

Andrei Stan (ICTP, Romanian Academy, Cluj-Napoca) - *Control of semilinear differential equations with moving singularities spaces*

Radu Stoica (Université Lorraine, France) - *to be announced*

Nicolae Suciu (ICTP, Romanian Academy, Cluj-Napoca) - *Three-dimensional explicit L scheme for Richards equation*

Alexandru Tămăşan (University of Central Florida, USA) - *to be announced*

Marius Tucsnak (Universite de Bordeaux, France) - *to be announced*

Gabriel Turinici (Université Paris Dauphine, France) - *Time sampling in physics informed neural networks simulations*

