

ISIM/ISWIM 2026 - Timetable

Day 1 - Thursday, the 25th of June

EEST TIME (UTC+3)	ACTIVITY
09:30-10:00	REGISTRATION OF PARTICIPANTS Venue: Senate Hall - RECTORAT
10:00-10:30	OPENING & WELCOME Zoom Link: https://us02web.zoom.us/j/81175549413?pwd=UPPmHTokIAEzgb11nbbqwSxFVidTiv.1
10:30-13:00	Moderators: Antonela TOMA, Emil SIMION
10:30-11:10	Mirel BIRLAN - Astronomical Institute of the Romanian Academy, Bucharest, Romania Small solar system bodies in the framework of planetary defense paradigm
11:10-11:40	<i>Coffee Break</i>
11:40-12:20	Yannis LIODAKIS - Institute of Astrophysics of the Foundation for Research and Technology - Hellas, Grecia <i>X-ray polarimetry: a new window to the Universe</i>
12:20-13:00	Gabriel RAICU - Constanta Maritime University, Constanta, Romania <i>The Observability Paradox in Artificial Intelligence - Measuring Intelligence in Complex Digital Systems</i>
13:00-14:30	<i>Lunch</i>

14:30-15:30	PARALLEL SESSIONS - CENTRAL LIBRARY BUILDING - HALL 3.1/3.2	
	HALL 3.1 - ISIM Moderators: Elena-Corina CIPU, Marius ȘTEFAN, Octavian POSTĂVARU, Savin TREANȚĂ Zoom Link: https://us02web.zoom.us/j/81923991296?pwd=HT3vD2iqszT9NRlbcWdrbNoqa1Kyah.1	HALL 3.2 - ISWIM Moderators: Irina BADRALEXI, Cerasela BURUIANĂ, Cosmin-Dănuț BARBU, Adrian IONESCU Zoom Link: https://us02web.zoom.us/j/82856046098?pwd=RHG6LoycW7jTWt9otUVtkqfSJWH7uS.1
	Djillali BOUAGADA, Kamel BENYETTOU <i>Stability Investigation of General Two-Dimensional Continuous-Time Models</i>	Ali MAADARANI <i>Reciprocal Results For Variational Control Models Governed By Caputo And Riemann-Liouville Fractional Derivatives</i>
	Kamel BENEYETTO, Djillali BOUGADA, Ghezzar Mohammed AMINE <i>Analysis of Positivity Preservation in 2D Continuous-Discrete Fractional Linear Models via Discretization Step Size</i>	Ramona-Manuela CALIANU <i>On an approximation technique and some reciprocal results in fractional optimization models</i>
	Ruxandra TOMA <i>Short Period Variable Stars in The OmegaWhite Survey</i>	Virgil IONICA <i>On a new class of optimization models</i>
	Octavian POSTAVARU <i>Fractal Transport and Equivalent Resistance in Lichtenberg-Type Resistor Networks</i>	Bianca COLAN, Vlad COLAN, Emil SIMION <i>Blackout Link: An Offline BLE Mesh Communication System For Emergency Scenarios</i>
	Cristina HRETCANU <i>Some properties of the Kahler metallic manifolds</i>	Cătălin-Marius DUȚĂ, Denis-Gabriel CODREANU <i>Statistical Assessment of Mental Health, Lifestyle Factors, and Academic Performance among Romanian University Students</i>
15:30-16:00	<i>Coffee Break</i>	

16:00-17:30

PARALLEL SESSIONS - CENTRAL LIBRARY BUILDING - HALL 3.1/3.2

HALL 3.1 - ISIM

Moderators: Elena-Corina CIPU, Marius ȘTEFAN, Octavian POSTĂVARU, Savin TREANȚĂ

Zoom Link:

<https://us02web.zoom.us/j/81923991296?pwd=HT3vD2iqszT9NRIbcWdrbNoqa1Kyah.1>

HALL 3.2 - ISWIM

Moderators: Irina BADRALEXI, Cerasela BURUIANĂ, Cosmin-Dănuț BARBU, Adrian IONESCU

Zoom Link:

<https://us02web.zoom.us/j/82856046098?pwd=RHG6LoycW7jTWt9otUVtkqfSJWH7uS.1>

Miruna ROȘCA, Emil SIMION

Securing the digital tomorrow: an overview of post-quantum cryptography and the nist standardization process

Adrian Sabin POPESCU

The Collapsing Magnetic Shield: Evidence for an Imminent Geomagnetic Shift

Ștefan-Leonardo DUMITRU, Alexandra BĂRBULESCU, Răzvan MORARU, Antonela TOMA

Optimizing Spacecraft Propulsion via Gravity Assist and the Oberth Effect

Vladimir-Andrei PAICU, Ștefan-Leonardo DUMITRU, Răzvan MORARU, Antonela TOMA

A research on the magnetic monopoles

Alexandru IORGA, Răzvan MORARU, Antonela TOMA

Optimization of Artificial Photosynthesis from the perspective of Functional Analysis and the Physics of Condensed Matter

Mircea CIMPOEAȘ

On The Stanley Length Of Monomial Ideals

Cosmin Dănuț BARBU, Elena - Corina CIPU

Mathematical Modelling of Fluid Flow Through Fractal Filtration Boundaries

Mario LEFEBVRE

Optimal Control Of a Filtered Poisson Process

Ruxandra-Ioana CIPU, Mihaela-Aurelia ANDREI, Elena Corina CIPU

Mathematical Model for Cost Optimization of In Vitro Cell Culture Experiments

Ștefan-Razvan ANTON

From Image Quality to Image Utility: Quantifying Task-Relevant Information in Polarization-Resolved SHG Microscopy

Alexandra-Maria BORȘ, Simona Mihaela BIBIC

Spatial Analysis of Crime Patterns Using Clustering Algorithms

Sebastian-Nicolae LIA, Paul-Costin DITA, Ioana-Adnana ENACHE, Constantin-Alin TUDOR

The Effect of Listening to Music While Studying on Academic Performance

Ștefan-Alin GHIMPETEANU, Roxana-Maria IAMANDEI

Stochastic optimization of the critical path in road graphs under uncertainty

Ștefan-Cătălin PETRESCU, Mihaela-Andreea BUTNARU, Elena-Corina CIPU

NLP-Based Analysis of Mobile Applications for Early Security Risk Detection

17:30-19:00

Dinner

Day 2 - Friday, the 26th of June

EEST TIME (UTC+3)	ACTIVITY										
09:30-10:00	REGISTRATION OF PARTICIPANTS Venue: Senate Hall - RECTORAT										
10:00-13:00	Moderators: Emil SIMION, Antonela TOMA Zoom Link: https://us02web.zoom.us/j/83114716883?pwd=FUoAVzMifhN5TBdyZ5L2gvhbBgQbUF.1										
10:00-10:40	Jeffrey HODGSON - Department of Physics and Astronomy at Sejong University, Seoul, South Korea <i>The cosmological quasar distance elevator</i>										
10:40-11:20	Jacobo ASOREY - Centro de Astropartículas y Física de Altas Energías at Universidad de Zaragoza, Zaragoza, Spain <i>Cosmology with the SKA Observatory: clustering from precursor radio surveys</i>										
11:20-11:40	Coffee Break										
11:40-12:20	Cezar LUPU - Beijing Institute of Mathematical Sciences and Applications, Beijing, China <i>Riemann zeta and multiple zeta values</i>										
12:20-13:00	Anurag JAYSWAL - Indian Institute of Technology, Dhanbad, India <i>An auxiliary approach for control multi-dimensional variational problems</i>										
13:00-14:30	Lunch										
14:30-15:30	PARALLEL SESSIONS - CENTRAL LIBRARY BUILDING - HALL 3.1/3.2										
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16:00-17:30		PARALLEL SESSIONS - CENTRAL LIBRARY BUILDING - HALL 3.1/3.2	
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	<p>Elena Corina CIPU, Carmen Adriana GHEORGHE, Vasile Nicolae STĂNCIULESCU, Vasile PREDA</p> <p><i>Entropy Measures of Population Dynamics and their Implications for Economic Resilience in Europe.</i></p>		<p>Maria CURBET, Livia-Cătălina HORNEA, Cosmin Dănuț BARBU, Elena-Corina CIPU</p> <p><i>Bayes` Formula and Fault Diagnosis in Power Systems</i></p>
	<p>Olfat AL LAKKIES, Laurance FAKIH, Paul GEORGESCU, Andrei HALANAY</p> <p><i>Hopf Bifurcation And Normal Forms In A Delayed Two-Species Mutualism Model</i></p>		<p>Anna Renata FERENT</p> <p><i>Navigation Problems In Finsler Geometry</i></p>
	<p>Makrina AGAOGLOU</p> <p><i>Sequential And Concerted Isomerization Dynamics On A Potential Energy Surface With An Index-2 Saddle</i></p>		<p>Luciana Sinziana DANILIUC</p> <p><i>Killing Vector Fields In Riemann And Finsler Geometries</i></p>
	<p>Valeria CIRLAN</p> <p><i>Duality for controlled fractional variational models using (q, ξ)-approximated technique</i></p>		<p>Luca FLORESCU, Radu Ciprian ZOIȚA, Andrei-Valentin PANDELICĂ</p> <p><i>The Mathematical Modeling and Experimental Evaluation of Wireless Power Transfer Efficiency Under Variable Coupling Conditions</i></p>
	<p>Ioana Monica MASCA</p> <p><i>Remarks On Some Rational Functions</i></p>		<p>Andrei GHENOIU, Ana-Maria MARIN, Ștefan NEDELOAIA, Calin-Tudor TOPAN, Mihai REBENCIUC</p> <p><i>Regular Relations Generation (RRGen)</i></p>
	<p>Robert BEREZOVSKI, Cristina BEREZOVSKI</p> <p><i>Mathematics and Physics: A Complementary Perspective</i></p>		<p>Ana-Maria MARIN, Calin-Tudor TOPAN, Mihai REBENCIUC, Antonela TOMA</p> <p><i>Generalized Matrices Of Intervals Applied To The Analysis Of Thermal Deformation Across Distinct Temperature Zones</i></p>
17:30-19:00		Dinner	

ISIM/ISWIM 2026 - Timetable

Day 3 - Saturday, the 27th of June

EEST TIME (UTC+3)	ACTIVITY CE 304, FIIR Moderators: Ioana Corina BOGDAN, Simona Mihaela BIBIC
11:00-12:30	Round table: Thematic: <i>Bridging Mathematics, Research, and Society: An Interdisciplinary Perspective</i>
12:30-13:30	Lunch
13:30-15:00	Discussions: <i>Exploring the Frontiers of Mathematics</i>
15:00-15:30	Coffee Break
15:30-16:30	Closing Ceremony