

**Thursday, November 16, 2023**

<b>Time</b>	<b>Event</b>	<b>Place</b>
08:00 – 14:00	<b>Registration</b>	Conference hall
10:00 – 10:45	<p><b>Opening Ceremony &amp; Welcome Speeches</b></p> <p><i>Chair: Assoc. Prof. Nicolae MARCOIE – Dean of Faculty of Hydrotechnics, Geodesy and Environmental Engineering, “Gheorghe Asachi” Technical University of Iasi</i></p> <p><b>Assoc. Prof. Constantin CHIRILĂ</b> – Director of Surveying and Cadastre Department, Faculty of Hydrotechnics, Geodesy and Environmental Engineering, “Gheorghe Asachi” Technical University of Iasi</p> <p><b>Prof. Dan CAȘCAVAL</b>, Rector of the “Gheorghe Asachi” Technical University of Iasi</p> <p><b>Eng. Mircea AFRĂSINEI</b>, President of the Romanian Association of Surveyors</p> <p><b>Mihai CHIRICA</b>, Mayor of IASI CITY</p> <p><b>Costel ALEXE</b>, President of IASI County Council</p> <p><b>Eng. Ionuț SĂVOIU</b>, Secretary of State in the Ministry of Transport and Infrastructure</p> <p><b>Mircea Viorel POPA</b>, General Director of National Agency for Cadastre and Land Registration</p> <p><b>Prof. Valeria-Ersilia ONIGA</b> – President of the Young Photogrammetrists Association, Romania</p>	<b>A0 Amphitheater</b>
10:45 – 11:00	<b>Starting Exhibition - Surveying and data processing technology Photo session</b>	Conference hall
11:00 – 11:30	<b>Coffee break</b>	Conference hall
11:30 – 13:00	<p><b>Plenary session "Geomatics engineering: Past, Present, and Future"</b> – Keynote Speakers Presentations</p> <p><i>Chair: Prof. Petre-Iuliu Dragomir, Prof. Cornel Păunescu</i></p> <p>1. <b>Gheorghe Nistor, Cristian Onu</b> 210 Years of Technical-Engineering Higher Education in the National Language (1813-2023)</p> <p>2. <b>Laurențiu Rădvan:</b> Foreign Engineers in Iași in the First Half of the 19th Century. The First Topographical Maps of the City</p> <p>3. <b>Ionuț Săvoiu:</b> Geospatial digitalization of transport infrastructure</p> <p>4. <b>Valeria-Ersilia Oniga, Ana-Maria Loghin, Mihaela Macovei, Anca-Alina Lazăr, Constantin Chirila, Paul Sestras:</b> Proposed Workflow for Digital Terrain Model (DTM) Generation Based on Lidar-UAS Data</p> <p>5. <b>Ana-Cornelia Badea, Gheorghe Badea:</b> GIS – A Metacognitive Skill Based on Challenge Based Learning</p> <p>6. <b>Pietro Grimaldi:</b> International Training Summer School (ITSS) "Survey for Planning: New Technologies and Land Protection"</p>	<b>A0 Amphitheater</b>
13:00 – 14:00	<b>Lunch</b>	Dining room

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14:00 – 15:30	<b>Technical Session 1</b> <b>Chair: Prof. Valeria Ersilia ONIGA, Assoc. Prof. Aurelian - Stelian BUDA</b>	<b>A0 Amphitheater</b>
	<div> <b>Spatial Information Management / Spatial technology for Positioning and Measurement / Engineering Surveying &amp; Deformation Monitoring / Cadastre and Land Management</b> </div> <ol style="list-style-type: none"> <li><b>Valeria-Ersilia Oniga, Mihaela Macovei, Anca-Alina Lazăr, Oana Miron, Constantin Chirilă, Bogdan Rusu:</b> Accuracy and Completeness Assessment of Cadastral Details Extracted from UAS Orthophotos</li> <li><b>Livia Nistor-Lopatenco, Vitalie Dilan:</b> The Use of Drones for Protected Natural Areas Mapping, Management and Monitoring</li> <li><b>Aurelian Stelian Buda, Sorin Nistor, Norbert-Szabolcs Suba, Alexandra-Paula Frent:</b> Premises of the 3D Cadastre in Romania</li> <li><b>Constantin Irinel Greșiță, Daniela Anamaria Georgescu:</b> Image-Based 3D Reconstruction of Buildings for Automated Construction Progress Monitoring</li> <li><b>George-Călin Baltariu, João Carlos Da Costa Catalão Fernandes, Ana Cristina Navarro Ferreira, Ilinca-Maria Baltariu, Valeria-Ersilia Oniga:</b> Land Use and Land Cover Analysis in the South of Romania from the Perspective of Population Dynamics and Urbanization</li> <li><b>Cristina-Oana Miron, Valeria-Ersilia Oniga, Constantin Chirilă, Anca-Alina Lazăr, Mihaela Macovei:</b> Accuracy Assessment of Direct and Indirect Georeferencing Process of UAS Images Acquired with the Share UAV PSDK 102S PRO Digital Camera</li> </ol>	
15:30 – 15:45	<b>Technical Session 1</b> <b>Chair: Prof. Florian Stătescu, Lecturer Marius Telișcă</b>	<b>A1 Amphitheater</b>
	<div> <b>Applied and Environmental Science</b> </div> <ol style="list-style-type: none"> <li><b>Florian Stătescu, Valentin Boboc, Gheorghiță Tatu, Gabriel-Constantin Sârbu, Nicolae Marcoie, Daniel Toma:</b> Metering and Ensuring Water Needs by Pressure Monitoring</li> <li><b>Marius Telișcă, Catrinel-Raluca Giurma-Handley, Cosmin-Marian Paerele, Anca Zaborilă:</b> Precipitation Modeling in the Slanic Hydrographic Basin Using ARCMAP</li> <li><b>Raluca Mitroi, Marius Telișcă, Valentin Boboc, Anca Zaborilă:</b> Python Routine for Uniform Flow in Trapezoidal Open Channels</li> <li><b>Petru Pleșca, Gabriel Săndulache:</b> Development of the Hydro-Energy Potential of the Prut River Between Romania and the Republic of Moldova on a SIG Basis</li> <li><b>Luchian (Pastia) Maria-Cătălina:</b> Analysis on Some Factors Determining Soil Permeability</li> </ol>	
15:30 – 15:45	<b>Conference breakout session</b>	<b>Conference hall</b>

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<i>Time</i>	<i>Event</i>		<i>Place</i>
15:45 – 17:15	<b>Technical Session 2</b> <i>Chair: Prof. Tudor SĂLĂGEAN, Assoc. Prof. Horațiu-Iulian HOGAȘ</i>		<b>A0 Amphitheater</b>
	<b>Spatial Information Management / Spatial technology for Positioning and Measurement / Engineering Surveying &amp; Deformation Monitoring / Cadastre and Land Management</b>	<b>1. Tatiana Șargarovschi:</b> Progress of Land Registration and Property Valuation Project	
		<b>2. Silvia Chiorean, Tudor Sălăgean, Ioana Pop, Florica Matei, Jutka Deak:</b> Emerging GIS Technologies in Real Estate Market Analysis	
		<b>3. Livia Nistor-Lopatenco, Dumitru Botnaru:</b> Delimitation of public property and efficient use of the state public property	
		<b>4. Ludmila Ciugureanu, Ion Botnarenco:</b> The Role of Methodologies in the Sustainable Use of Land Resources	
		<b>5. Cornelia Șoimu, Ion Botnarenco, Ludmila Ciugureanu:</b> The Object of the Cadastral Registration Process	
		<b>6. Tudor Bajura, Efim Zubco:</b> Agricultural Land Market In The Republic Of Moldova: Retrospective Analysis And Development Forecast	
	<b>Technical Session 2</b> <i>Chair: Prof. Mihail LUCA, Prof. Catrinel-Raluca Giurma-Handley</i>		<b>A1 Amphitheater</b>
	<b>Applied and Environmental Science</b>	<b>1. Catrinel-Raluca Giurma-Handley, Anca Zaborilă, Ioan-Corneliu Martincu, Ion Giurma:</b> Assessing Water Quality Implications of Climate Change on Sewer Systems	
		<b>2. Mihail Luca, Petru-Daniel Branianu, Ionut-Petronel Romanescu:</b> Research on the Degradation of Pipelines Positioned in River Undercrossing	
		<b>3. Catrinel-Raluca Giurma-Handley, Anca Zaborilă, Ionuț-Emilian Todirică, Ion Giurma:</b> Increasing the Performance and Economic Analysis of the Water Distribution Network Using Pressure Management	
		<b>4. Petronel-Ionut Romanescu, Petru Daniel Brătianu, Mihail Luca:</b> Research on the Interconnection of the Minor River Bed with the Riparian Area	
		<b>5. Claudiu Pricop, Tudor Viorel Blidaru, Ioan Balan, Loredana Mariana Crenganiș, Isabela Elena Balan:</b> Google Earth Engine in Water Resource Management	
		<b>6. Loredana Mariana Crenganiș, Florin-Doru Huțu, Maximilian Diac, Denis Țopa:</b> On the Use of GIS and Rfid Technologies in Modern Irrigation Systems	
17:15 – 17:30	<b>Coffee break</b>		<b>Conference hall</b>

**Thursday, November 16, 2023**

16:30 – 17:15	<b>UGR Meeting</b>	Council room of the faculty
17:30 – 18:00	<b>Round Table – Relevant topics of geodetic education</b> <i>Chair: Prof. Ana-Cornelia BADEA, Assoc. Prof. Constantin Chirilă</i> <b>Theme:</b> <i>The identification of new approaches in the specialized curriculum - modern teaching methods and technological challenges</i>	A0 Amphitheater
19:00	<b>Gala dinner</b>	Liria Events

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<i>Time</i>	<i>Event</i>		<i>Place</i>
10:00 – 11:00	<b>Technical Session 3</b> <i>Chair: Assoc. Professor PhD.eng. Constantin Irinel GREȘIȚĂ,</i> <i>Lecturer Loredana Mariana CRENGANIȘ</i>		A0 Amphitheater
	Geomatics applications for young surveyors	1. <b>GAUSS Case Study Doljchim (Eng. George Cristian)</b> Three-dimensional digital reconstruction of buildings. Case Study Doljchim	
		2. <b>MOLBAK (Georgian Coman)</b> Extraction of building roofs using LiDAR data	
11:00 – 11:15	<b>Coffee break</b>		Conference hall
11:15 – 12:15	Geomatics applications for young surveyors	1. <b>EDIT SHOP BUSINESS (Andrei Nohai)</b> Complete dam inspection systems	A0 Amphitheater
		2. <b>Ilinca Daniela Sahlean, Valeria Ersilia Oniga</b> Indoor 3D modelling based on SfM photogrammetry and terrestrial laser scanning data	
		3. <b>Eugeniu Tigănu, Denis Tigănu, Ana Vlasenco, Livia Nistor-Lopatenco</b> The application of terrestrial laser scanning to monitoring the Cricova underground mine in the Republic of Moldova	
		4. <b>Mihnea Mitache</b> Professional Challenges in Today's World for Young Surveyors	
12:15 – 12:30	<b>The closing ceremony of Geomat symposium</b>		A0 Amphitheater