



## TOPICS

- **Spatial Information Management**
- **Spatial technology for Positioning and Measurement**
- **Engineering Surveying & Deformation Monitoring**
- **Cadastral and Land Management**
- **Applied and Environmental Science**



*December 16 – 17, 2021*  
*Iasi, Romania*

*Online edition - Microsoft Teams*

## Thursday, December 16, 2021

| Time          | Event  | Place   |
|---------------|--|---|
| 08:00 – 10:00 | <b>Online Registration</b>   | <a href="http://geomat.ro/">http://geomat.ro/</a> |
| 10:00 – 11:15 | <p><b>Welcome speeches for GEOMAT 2021</b><br/> <i>Chair: Assoc. Prof. Constantin CHIRILĂ – Director of Surveying and Cadastre Department, Faculty of Hydrotechnics, Geodesy and Environmental Engineering, “Gheorghe Asachi” Technical University of Iasi</i></p> <p><b>Welcome speeches:</b><br/> <i>Prof. Dan CAȘCAVAL, Rector of the “Gheorghe Asachi” Technical University of Iasi</i><br/> <i>Assoc. Prof. Nicolae MARCOIE, Dean of the Faculty of Hydrotechnics, Geodesy and Environmental Engineering, “Gheorghe Asachi” Technical University of Iasi</i><br/> <i>Eng. Ionuț SĂVOIU, President of the Romanian Association of Surveyors</i><br/> <i>Prof. Gheorghe BADEA, Dean of the Faculty of Geodesy, Technical University of Civil Engineering Bucharest</i><br/> <i>Assoc. Prof. Livia NISTOR-LOPATENCO, Dean of the Faculty of Constructions, Geodesy and Cadastre, Technical University of Moldova</i><br/> <i>Prof. Pietro GRIMALDI, Polytechnic of Bari, Italy, President of Italian Comitee Fotogrammetria Architettonica ( COIFA )</i></p> | <b>Online<br/>(Microsoft Teams)</b>               |
| 11:15 – 11:25 | <b>Room setting interval</b>   |   |
| 11:25 – 12:25 | <p><b>Session presentations</b><br/> <b>“Spatial Information Management”</b><br/> <i>Chair: Assoc. Prof. Constantin CHIRILĂ, Lecturer Maximilian DIAC</i></p> <p>1. <b>Iuliana Maria Pârvu, Petre Iuliu Dragomir:</b><br/> 3D building modelling based on ALS point clouds</p> <p>2. <b>George-Calin Baltariu, Constantin Bofu:</b><br/> A GIS for the pedological soil mapping of Popricani area in Iasi County</p> <p>3. <b>Iuliana Adriana Cuibac Picu, Petre Iuliu Dragomir:</b><br/> Accurate geospatial data for creating a Smart City</p> <p>4. <b>Ioana Chiriac, Livia Nistor-Lopatenco, Ana Vlasenco:</b><br/> Spatial Information Management in creating of Digital Atlas of Moldova</p>   | <b>Online<br/>(Microsoft Teams)</b>               |
| 12:25 – 12:30 | <b>Break time</b>  |   |
| 12:30 – 13:30 | <p><b>Session presentations</b><br/> <b>“Spatial Information Management;<br/> Engineering Surveying &amp; Deformation Monitoring”</b><br/> <i>Chair: Prof. Constantin BOFU, Lecturer Loredana CRENGANIȘ</i></p> <p>5. <b>Loredana Mariana Crenganis, Claudiu Pricop, Maximilian Diac:</b><br/> Floodplain Mapping Using ArcGIS and HEC-RAS: A Case Study of U.A.T. Ungheni, Iasi county, Romania</p> <p>6. <b>Maximilian Diac, Loredana Mariana Crenganis, Vasilica Alexandru Oprisanu, Ioan Balan:</b><br/> GIS network analysis in landslides and flood risk management</p> <p>7. <b>Agapie (Mereuță) Ioana, Luca Mihail, Mereuță Daniel:</b><br/> Comparative analysis regarding GIS interpolation methods in the problems of spatial analysis and obtaining MDT</p> <p>8. <b>Agapie (Mereuță) Ioana, Luca Mihail, Gherasim Paul Marian:</b><br/> Monitoring the stability of earthdams using local geodetic networks</p>   | <b>Online<br/>(Microsoft Teams)</b>               |
| 13:30 – 14:30 | <b>Lunch break</b>   |   |

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|---------------|--|--------------------------------------|
| 14:30 – 15:30 | <p><b>Session presentations</b><br/> <b>“Spatial technology for Positioning and Measurement<br/> Cadastral and Land Management<br/> Applied and Environmental Science”</b><br/> <i>Chair: Prof. Ana Cornelia Badea, Assoc. Prof. Horațiu HOGAȘ</i></p> <p>9. <b>Paul Sestras, Sanda Nas, Ioel Veres:</b><br/> The use of UAS and GIS spatial analysis in cadastral surveying and technical documentations</p> <p>10. <b>Valeria-Ersilia Oniga, Ana-Ioana Breaban, Norbert Pfeifer, Maximilian Diac:</b><br/> Semi-automatic workflow for 3D building models generation based on UAS images</p> <p>11. <b>Mihail Luca, Nicolae Marcoie, Violeta Dominte (Croitoru), Ioana Agapie (Mereuta):</b><br/> Considerations regarding the verification of the topographic drawing parameters of structural components at earth dam</p> <p>12. <b>Cucuteanu Adelina-Cristina, Todirica Ionut-Emilian, Zaborila Anca, Topolniceanu Alexandru, Ioan Giurma, Petrica Cercel:</b><br/> Open source flood mapping tools – QGIS, river GIS and HEC-RAS</p> | <b>Online<br/> (Microsoft Teams)</b> |
| 15:30 – 15:35 | <i>Break time</i>  |                                      |
| 15:35 – 16:50 | <p><b>Session presentations</b><br/> <b>“Geomatics and new technologies of geospatial science”</b><br/> <i>Chair: Prof. Mihail Luca, Prof. Giurma-Handley Catrinel Raluca</i></p> <p>13. <b>Anișoara Filip:</b><br/> Paraglacial geomorphological transformations and palaeoclimate changes in Rodna Mountains</p> <p>14. <b>Postavaru Alexandru, Ion Giurma:</b><br/> Research and case studies on water losses in distribution networks and their effect on the groundwater</p> <p>15. <b>Paula Stoica, Ioan-Corneliu Marțincu, Catrinel-Raluca Giurma-Handley:</b> Watershed delineation using digital elevation model in ArcGIS</p> <p>16. <b>Martincu Ioan-Corneliu, Zaborila Anca, Todrica Ionut-Emilian, Stoica Paula, Giurma-Handley Catrinel Raluca:</b><br/> Comparative analysis of the infiltration model in an urban catchment</p> <p>17. <b>Andrei Pavaleanu, Ion Giurma</b><br/> Local water supply systems deficiencies and safety measures. Case study.</p>   | <b>Online<br/> (Microsoft Teams)</b> |

## Friday, December 17, 2021

|               | Event  | Place   |
|---------------|--|---|
| 08:00 – 10:00 | <b>Online Registration</b>   | <a href="http://geomat.ro/">http://geomat.ro/</a> |
| 10:00 – 11:00 | <b>National professional competition for students in the field of geodetic engineering</b><br><i>Chair: Assoc. Prof. Valeria-Ersilia ONIGA, Prof. Caius DIDULESCU, Prof. Sorin NISTOR</i>  | <b>Online</b><br><i>(Microsoft Teams)</i>         |
|               | 1. <b>Iosif Lavric, Elena Militaru:</b> Computer application for processing, analyzing and visualizing geodetic data   |   |
|               | 2. <b>George Calin Baltariu, Alexandru Dumitru Surmei:</b> An informatic application that eases the use of GIS data by office clerks   |   |
|               | 3. <b>Claudiu Mărtinaș, Iosif Lavric, Damian Marcan:</b> Computer application for the study of the measurement precision of a professional Laser Distance Meter  |   |
| 11:00 – 11:05 | <b>Break time</b>  |   |
| 11:05 – 12:30 | <b>Sponsor presentations</b><br><i>Chair: Prof. Constantin BOFU, Lecturer Dan PĂDURE</i>   | <b>Online</b><br><i>(Microsoft Teams)</i>         |
|               | Workshop „Using TopoLT for cadastral works and the possibilities offered by TransLT for coordinate transformation ”<br><b>Ing. Brandusa Parlog</b> – General Manager of CADWARE Engineering<br><b>Ing. Cristinel Bujor</b> – General Manager of Space 3D, developer of TopoLT, ProfLT and TransLT applications |   |
| 12:30 – 12:35 | <b>Break time</b>  |   |
| 12:35 – 12:45 | <b>Student Competition Award</b><br><i>Chair: Assoc. Prof. Valeria-Ersilia ONIGA</i>   | <b>Online</b><br><i>(Microsoft Teams)</i>         |
| 12:45 – 13:00 | <b>The closing ceremony of Geomat symposium</b><br><i>Chair: Assoc. Prof. Nicolae MARCOIE</i>  | <b>Online</b><br><i>(Microsoft Teams)</i>         |
| 16:00         | <b>UGR event - official meeting of the IASI branch</b>   |   |

