



International Symposium

GE**OMAT 2019**

7th Edition

"Geomatics and new technologies of geospatial science"



November 14 – 15, 2019
Iasi, Romania

Thursday, November 14, 2019

Time	Event	Place
08:00 – 17:00	Registration	A0 Hall
10:00 – 11:00	<p>Opening ceremony for GEOMAT 2019. Conference official photo. Chair: Prof. Florian STĂTESCU – Dean of Faculty of Hydrotechnics, Geodesy and Environmental Engineering, "Gheorghe Asachi" Technical University of Iasi</p> <p>Welcome speeches: Prof. Dan CAȘCAVAL, Rector of the "Gheorghe Asachi" Technical University of Iasi Mihai CHIRICA, Mayor of IASI CITY Prof. Ion GIURMA, "Gheorghe Asachi" Technical University of Iasi, member of the Academy of Romanian Scientists and member of the Academy of Agricultural and Forestry Sciences Eng. Ionuț SĂVOIU, President of the Romanian Association of Surveyors Prof. Gheorghe BADEA, Dean of the Faculty of Geodesy, Technical University of Civil Engineering Bucharest Prof. Ioan IENCIU, Dean of the Faculty of Exact Science and Engineering, University "1 December 1918" Alba Iulia Assoc. Prof. Livia NISTOR-LOPATENCO, Dean of the Faculty of Constructions, Geodesy and Cadastre, Department of Civil Engineering and Geodesy, Technical University of Moldova Prof. Pietro GRIMALDI, Polytechnic of Bari, Italy, President of Italian Comitee Fotogrammetria Architettonica (COIFA)</p>	A0
11:00 – 11:30	Coffee break	A0 Hall
11:30 – 13:00	<p>Plenary session "Geomatics and new technologies of geospatial science" Chair: Prof. Gheorghe BADEA, Prof. Constantin BOFU</p> <p>1. Octavian Balotă, Daniel Ilie, Daniela Iordan, Gabriel Popescu: Advanced UAV Lidar System for geospatial data collection</p> <p>2. Valeria-Ersilia Oniga, Ana-Ioana Breaban, Norbert Pfeifer, Constantin Chirilă: Determining the suitable number of ground control points for UAS images georeferencing by varying number and spatial distribution</p> <p>3. Tiberiu Rus, Constantin Moldoveanu, Valentin Danciu, Marin Plopeanu, Andrei Șerban Ilie: Current problems in rockfill dams monitoring</p> <p>4. Aurel Sărăcin: Intelligent transportation and telematics</p> <p>5. Pietro Grimaldi: "NDVI - Normalized Difference Vegetation Index"</p>	A0
13:00 – 14:00	Lunch	A0 Hall
14:00 – 15:30	<p>Plenary session Chair: Prof. Petre Iuliu DRAGOMIR, Prof. Cornel PĂUNESCU</p> <p>6. Livia Nistor-Lopatenco, Alexandru Tabacaru: Determination of agglomerations in the Prut river basin of Republic of Moldova according to EU Directive 91/271/EEC</p> <p>7. Ana Cornelia Badea, Gheorghe Badea: Modern methods for spatial urban planning</p> <p>8. Mircea-Emil Nap, Petre-Iuliu Dragomir, Tudor Sălăgean, Elemer-Emanuel Șuba, Ioana Delia Pop, Florica Matei: The use of Terrestrial Laser Scanning technology in the property valuation activity</p> <p>9. Tudor Sălăgean, Elemer-Emanuel Șuba, Ioana Delia Pop, Florica Matei, Jutka Deak, Diana Ficior, Silvia Chiorean, Iulia Coroian, Ioan Lupuț: The use of Terrestrial Laser Scanning and UAV technology for 3D modelling of buildings</p> <p>10. Ionuț Săvoiu: A new model for the contract estimated value of the cadaster and systematic registration services</p>	A0
15:30 – 16:00	Coffee break	A0 Hall
16:00 – 17:00	<p>Debate: "Challenges and opportunities in Romanian geodetic education" Chair: Prof. Raluca Margareta MANEA, Assoc. Prof. Constantin CHIRILĂ</p>	A0
17:00 – 18:30	<p>UGR Commissions Meeting Chair: Eng. Ionuț SĂVOIU</p>	A0
19:30	Gala dinner – Pleiada Boutique Hotel	

Friday, November 15, 2019

Time	Event		Place
08:00 – 10:00	Registration		A0 Hall
10:00 – 11:00	Session presentations <i>Chair: Assoc. Prof. Ersilia ONIGA, Assoc. Professor Adrian SAVU</i>		A0
	Geodesy and Cartography; Photogrammetry and Remote Sensing	1. Valeriu Moca, Valeria Ersilia Oniga, Cristian Onu, Mihaela Macovei, Oprea Radu, Cristian Huțanu: Analysis of the deformations recorded in the extreme geographical administrative – territorial units of Romania using the Stereographic Projection 1970	
		2. Seinic Valeriu: Application of UAV technology (drones) in forest cadastre	
3. Elemer-Emanuel Șuba, Tudor Sălăgean, Jutka Deak, Diana Ficior, Silvia Chiorean, Iulia Coroian, Ioan Luput: The use of UAV photogrammetric method for precise agriculture			
11:00 – 11:30	Coffee break		A0 Hall
11:30 – 13:00	Session presentations <i>Chair: Assoc. Prof. Livia NISTOR-LOPATENCO, Prof. Ioan IENCIU</i>		A0
	Cadastre and Real Estate Publicity; Real Estate Valuation	4. Voichita Roib: A database management system in real estate assessment	
		5. Silvia Chiorean, Tudor Sălăgean, Elemer-Emanuel Șuba, Ioana Delia Pop, Florica Matei, Jutka Deak, Diana Ficior, Iulia Coroian, Ioan Lupuț: Determining the market value of constructions with a traditional architecture	
		6. Anca Morărescu, Sorin Herban: Integrated management in development of the cadaster works for a sustainable real estate market	
		7. Oliver-Valentin Dinter, Lucian Roșu, Alexandru Rusu: Using spatial statistics in real estate valuation in Iasi municipality	
8. Mihail Luca, Lateș Iustina, Crenganiș Loredana, Al. Luca: Contributions to the cadastre of water adduction pipes			
13:00 – 14:00	Lunch		A0 Hall
14:00 – 15:00	The closing ceremony of Geomat symposium		A0

Friday, November 15, 2019

Time	Event		Place
08:00 – 10:00	Registration		A0 Hall
10:00 – 11:00	Session presentations <i>Chair: Prof. Mihail LUCA, Prof. Raluca GIURMA-HANDLEY</i>		A2
	Applied and Environmental Science	1. Aureliu Ursachi, Nicolae Marcoie, Daniel Toma, Valentin Boboc: Aquaponics: A way of saving water in agriculture	
		2. Vasile Grama, Ana Vlasenco, Agostino Avanzi, Tommaso Dominato: Methodology for identification of lakes destined for liquidation in the Republic of Moldova	
		3. Costel Boariu: The influence of trees in the minor riverbed over the water flow and stability of the riverbed. Case Study	
4. Gabriela Biali: Complex research developed with GIS technique, concerning the lands use and soils in relation to the relief factors			
11:00 – 11:30	Coffee break		A0 Hall
11:30 – 13:00	Session presentations <i>Chair: Assoc. Prof. Nicolae MARCOIE, Assoc. Prof. Costel BOARIU</i>		A2
	Applied and Environmental Science	4. Anca Dănilă: Modelling the urban surface water in the Westerlo case study	
		5. P. V. Sion, M. Luca, Șt. A. Sticea: Considerations regarding the ecological restoration of degraded riverbeds	
		6. Șt. A. Sticea, M. Luca, Al. Luca: Considerations regarding the hydraulic efficiency of the pressure irrigation plots	
7. Chislingher Cozmin Dragoi, Mihail Luca: Solutions regarding water treatment in decentralized systems			
13:00 – 14:00	Lunch		A0 Hall
14:00 – 15:00	The closing ceremony of Geomat symposium		A0

Friday, November 15, 2019

Time	Event	Place	
10:00 – 13:00	Poster presentation <i>Session Chair Person: Lecturer Loredana CRENGANIS</i>	A0 Hall	
	Engineering Geodetic Measurements; Photogrammetry and Remote Sensing; Cadastre and Real Estate Publicity; Real Estate Valuation; Geographic Information Systems (GIS); Applied and Environmental Science		1. Ioan Voina, Luciana Oprea: Methods of identifying the property within the judicial technical experts
			2. Ana-Ioana Breabăn, Valeria-Ersilia Oniga, Florian Stătescu: SfM technique applied for 3D point cloud generation using Pleiades satellite images
			3. Ioana Agapie (Mereuță), Mihail Luca, Paul Marian Gherasim: Research on the design of a geodetic tracking network for monitoring the earth structures
			4. Cristina-Mihaela Vîrlan (Toma), Daniel Toma, Florian Stătescu, Nicolae Marcoie, Costel-Cătălin Prăjanu: Aspects related to variable speed drive for pumps operating within the Chirița pumping station
			5. Dan Pădure, Anca-Alina Lazăr: Dynamics of cadastral changes over time on the campus of "Gheorghe Asachi" Technical University of Iasi
			6. Anca-Alina Lazăr, Dan Pădure, Costinela Pîrvan: Analysis of the systematic cadastral implementation in relation to the existing cadastral information and the situation on the ground
			7. Cosmin-Marian Paerele, Marius Telișcă, Raluca Giurma-Handley: Implementation of the SCS-CN hydrological model in the GIS environment
			8. Isabela Balan, Claudiu Pricop, Loredana Crenganiș, Flaviana Corduneanu, Maximilian Diac, Andrei Berindean: Studies regarding the safety in operation of Vulturești Polder. Case study – A comparison between the floods transited on Bârlad river
9. Valentin Boboc, Nicolae Marcoie: Aspects regarding restoration of water courses			
13:00 – 14:00	Lunch	A0 Hall	
14:00 – 15:00	The closing ceremony of Geomat symposium	A0	