



International Symposium

GEOMAT 2017

5th Edition

"Geomatics and new technologies of geospatial science"



November 23 – 24, 2017
Iasi, Romania

Thursday, November 23, 2017

Time	Event	Place
08:00 – 17:30	Registration	A0 Hall
10:00 – 11:00	<p>Opening ceremony for GEOMAT 2017. Conference official photo. <i>Chair: Prof. Florian STĂTESCU – Dean of Faculty of Hydrotechnics, Geodesy and Environmental Engineering, "Gheorghe Asachi" Technical University of Iasi</i></p> <p>Welcome speeches: <i>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</i> <i>Prof. Gheorghe BADEA, Dean of the Faculty of Geodesy, Technical University of Civil Engineering Bucharest</i> <i>Prof. Ioan IENCIU, Dean of the Faculty of Exact Science and Engineering, University "1 December 1918" Alba Iulia</i> <i>Prof. Cornel PĂUNESCU, President of the Romanian Association of Surveyors</i> <i>Prof. Vasile CHIRIAC, President of the Moldavian Union of Surveyors, Republic of Moldova and CLGE Secretary General</i> <i>Ion Bogdan ŞAVLOVSCHI, Director of the Cadastre and Land Registration Office Iasi</i> <i>Prof. Gheorghe NISTOR, Faculty of Hydrotechnics, Geodesy and Environmental Engineering, "Gheorghe Asachi" Technical University of Iasi</i></p>	A0
11:00 – 11:30	Coffee break	A0 Hall
11:30 – 13:00	<p>National Program for Cadastre and Land Registration (PNCCF) – Panel discussion <i>Debate on the solutions for systematic cadastre in administrative unit of Iasi municipality</i> <i>Chair: Prof. Cornel PĂUNESCU, President of the Romanian Association of Surveyors</i> <i>Ion Bogdan ŞAVLOVSCHI, Director of the Cadastre and Land Registration Office Iasi</i></p>	A0
13:00 – 14:30	Lunch	A0 Hall
14:30 – 16:00	<p>Plenary session <i>Chair: Prof. Gheorghe NISTOR, Prof. Gheorghe BADEA</i></p> <ol style="list-style-type: none"> 1. Radu-Dan-Nicolae Crisan, Catalin Erhan, Neculai Avramiuc, Miluta Flueraș, Crina-Mariana Burada, Dan Cristian Andrei: Establishment of a gravimetric polygon of calibration in Sinaia, Prahova County 2. Vasile Chiriac: Study of Deflection of the Vertical determination methods and the influence on the traditional terrestrial three-dimensional geodetic measurements 3. Iuliana Maria Parvu, Iuliana Adriana Cuibac-Picu, Adrian Grigore Parvu: LiDAR applications based on LAKI II project 4. Ana-Maria Loghin, Valeria Ersilia Oniga, Catrinel-Raluca Giurma-Handley: 3D point cloud classification of natural environments using airborne laser scanning data 5. Ciprian-Constantin Savescu, Catalin Marius Petrisor: Quality and Quantity in land registration 	A0
16:00 – 17:00	<p>Opportunities for cooperation between academic and national agency – Panel discussion <i>Debate on the standardization of the map symbols for better data sharing</i> <i>Chair: Prof. Constantin BOFU, Lecturer Maximilian DIAC</i></p>	A0
19:00	Gala dinner – Panoramic restaurant, Unirea Hotel & Spa Iasi	

Friday, November 24, 2017

<i>Time</i>	<i>Event</i>	<i>Place</i>
08:00 – 09:30	Registration	A0 Hall
09:30 – 11:00	Session presentations <i>Chair: Prof. Petre Iuliu DRAGOMIR, Assoc. Prof. Constantin CHIRILĂ</i>	A0
	Geodesy and Cartography; Engineering Geodetic Measurements; Photogrammetry and Remote Sensing 1. Gheorghe Nistor, Cristian Onu, Dan Pădure, Irinel C-tin Greșiță : Study of the stability over time of microtriangulation network station points, used as a reference system for the determination of the horizontal deformations vector of the studied constructions	
	2. Ivan Danii, Viorica Mocreac : Georeferencing and sharing of spatial data	
	3. Ersilia V. Oniga, Ana-Ioana Breaban, Florian Statescu : Determining the optimum number of ground control points for obtaining high precision results based on UAS images	
	4. Diana Ioana Morariu, Daniel Lepadatu : Geodetic monitoring of buildings in service stage and identification of structural degradation causes	
11:00 – 11:30	Coffee break	A0 Hall
11:30 – 13:00	Session presentations <i>Session Chair Person: Assoc. Prof. Aurel NEGRILĂ, Lecturer Ersilia ONIGA</i>	A0
	Geodesy and Cartography; Engineering Geodetic Measurements; Photogrammetry and Remote Sensing 5. Paul Macarof, Cezarina Georgiana Bartic (Lazar), Florian Statescu : Using NBUI to extract built-up area in Iasi municipality area, Romania	
	6. Nicoleta-Violeta Iurist (Dumitrascu), Florian Statescu, Cezarina Georgiana Bartic (Lazar) : Analysis of land cover changes using sentinel-1 data. Case study - Galati county, Romania	
	7. Georgiana Cezarina Bartic (Lazar), Florian Statescu, Paul Macarof, Nicoleta Viorela IurLecturerLecturerist (Dumitrascu) : Analysis of the forestry area evolution in Iasi county	
	8. O. Arabatzi, N. Ksuvas, V. Pagounis, M. Tsakiri : A test facility for length measurement control of geodetic instruments	
13:00 – 14:30	Lunch	A0 Hall
14:30 – 16:00	Plenary session "Geomatics and new technologies of geospatial science" – sponsors presentations <i>Chair: Assoc. Prof. Caius DIDULESCU, Lecturer Dan PĂDURE</i>	A0
16:00 – 16:30	Coffee break	A0
16:30 – 17:30	The closing ceremony of Geomat symposium	A0
18:30	Concert by the Romanian National Opera from Iasi – The "Mihai Eminescu" Central University Library	

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08:00 – 09:30	Registration	A0 Hall
09:30 – 11:00	Session presentations <i>Chair: Assoc. Prof. Adrian SAVU, Lecturer Horațiu HOGAȘ</i>	HPMO
	Cadastrre and Real Estate Publicity; Real Estate Valuation Geographic Information Systems (GIS) 1. Chiorean Silvia, Onose Dumitru: The use of GIS in order to improve the real estate valuation	
	2. Ion Botnarenco, Efim Zubco: Registration of land rights depending on the evolution of land legislation	
	3. Iustina Lates, Mihail Luca, Stefania Chirica: Monitoring special urban installations with the GIS model	
	4. Efim Zubco, Ion Botnarenco: Integrity of land relations and land measurements within the multifunctionality of cadastre	
	5. Gheorghe Sălceanu, Gheorghe Nistor, Cristian Onu, Dan Pădure, Cristian Huțanu: The real estate and urbanistic Geographic Information System of a municipality	
11:00 – 11:30	Coffee break	A0 Hall
11:30 – 13:00	Session presentations <i>Chair: Prof. Vasile CHIRIAC, Lecturer Cristian ONU</i>	HPMO
	Cadastrre and Real Estate Publicity; Real Estate Valuation Geographic Information Systems (GIS) 7. Ionut Savoiu: The full cost of quality for cadastre information in systematic registration projects	
	8. Sergiu Popescul, Mihail Turculet: Some contributions to the implementation of the information system of the agricultural cad Republic of Moldova	
	9. Petru Plesca, Viorica Mocreac, Octavian Mocreac: Applying GIS in precision of the parameters of the hydrotechnical node, for elaboration of exploitational rules	
	10. Voichita Roib, Ilinca Roib: The influence of the environment on real estate apprassail	
	11. Costin-Sebastian Manu, Larisa Ofelia Filip, Dumitru Filip Tivig, Ioan Boroica: GIS database for mining	
	12. Nicu Ciobotaru, Theodor Lupei, Lucian Laslo, Monica Matei, Madalina Boboc, Ana-Maria Velcea, Gyorgy Deak: A GIS approach regarding tourism suitability of wetland areas of Rromania – poster presentation	
	13. Loredana Crenganis, Constantin Bofu, Isabela Balan: The use of the network analyst extension for the organization and optimization of transport in Roman municipality – poster presentation	
13:00 – 14:30	Lunch	A0 Hall

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08:00 – 09:30	Registration	A0 Hall
09:30 – 11:00	Session presentations Chair: Prof. Florian STĂTESCU, Prof. Mihail LUCA	HPM1
	Applied and Environmental Science 1. Stefan Zamfir, Gorgy Deak, Marius Raischi, Alina Nicolae, Lucian Georgescu, Natalia Raischi, Alexandru Cristea, Gabriel Badea, Marius Olteanu, Gabriel Cornateanu, Cirstinoiu Constantin, Bogdan Uritescu: Combined Multi-beam Echo Sounder and Acoustic Doppler Profiler Mapping of the Danube-Epurasu branch in order to determine the influence of newly constructed	
	2. Mihail Luca, Alexandru-Lucian Luca, Fabian Tamasanu, Daniel Toma: Update of the topographic parameters of the structural elements to the pipes networks	
	3. Stefania Chirica, Iustina Lates, Mihail Luca: Updating the pipe networks layout plan using modern detection equipment	
	4. Alina-Florina Nicolae, Puiu-Lucian Georgescu, Gyorgy Deak, Adrian-Stefan Zamfir, Georgeta Tudor, Constantin Cirstinoiu, Bogdan Uritescu, Marius Raischi, Marius Olteanu: Development of a bathymetric model for Danube Bala branch-old Danube bifurcation	
11:00 – 11:30	Coffee break	A0 Hall
11:30 – 13:00	Session presentations Chair: Prof. Dorin COTIUȘCĂ – ZAUCĂ, Lecturer Loredana CRENGANIS	HPM1
	Applied and Environmental Science 5. Constantin Carstinoiu, Gyorgy Deak, Bogdan Uritescu, Georgeta Tudor, Alina-Florina Nicolae, Adrian-Stefan Zamfir, Tiberius Danalache, Marius Olteanu, Marius Raischi: Assessment of hydromorphological and hydrodynamic alterations caused by anthropogenic interventions on the riverbed. Case study Danube Bala branch new bottom sill	
	6. Pavel Ichim, Lucian Sfică, Adriana Kadhim-Abid, Adrian Ursu, Vasile Jitaru: Urban heat island (UHI) analysis using Sky view factor (SVF) parameters	
	7. Lucian Laslo, Nicu Ciobotaru, Theodor Lupei, Monica Matei, Ana-Maria Velcea, Madalina Boboc, Gabriel Badea, Deak Gyorgy: Drought and irrigations of romanian agricultural areas – poster presentation	
	8. Isabela Balan, Loredana Crenganis, Flaviana Corduneanu: Aspects regarding external stresses on dams during yhe years 2000 - 2016. Case study: 22 reservoirs in Prut - Barlad catchment – poster presentation	
13:00 – 14:30	Lunch	A0 Hall