



UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN
Faculty of Geodesy, Geospatial and Civil Engineering
Department of Real Estate Management and Regional Development
Institute of Geodesy



16th International Scientific-Methodical Conference

BALTIC SURVEYING'18

under the auspices of

The Ministry of Agriculture and Rural Development
The Voivod of Warmia and Mazury
The President of Olsztyn
The Rector of University of Warmia and Mazury in Olsztyn
The Dean of Faculty of Geodesy Geospatial and Civil Engineering

in collaboration with

Latvia University of Life Sciences and Technologies, Latvia
Aleksandras Stulginskis University, Lithuania

September 24th - 26th, 2018
Olsztyn, Poland



PATRONAT HONOROWY
Prezydent Olsztyna
Piotr Grzymowicz



International scientific committee:

assoc. prof. Paweł Wielgosz – Chairperson

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University of Warmia and Mazury in Olsztyn, Poland

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Aleksandras Stulginskis University, Lithuania

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Institute “Belgiprozem”, Belarus

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Lviv National Agricultural University, Ukraine

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Liverpool John Moores University, UK

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<https://www.balticsurveying.uwm.edu.pl>

Venue:

Hotel HP Park in Olsztyn

Al. Warszawska 119

10-720 Olsztyn

<https://olsztyn.hotelpark.pl/>

SCHEDULE

Monday, 24th of September, 2018

Hotel Park, Al. Warszawska 119 in Olsztyn, Poland

September 24, 2018 - all day long: arrival of participants, accomodation at the Hotel Park or University hostels, registration of participants and official opening ceremony

Registration	9:00 – 10:00; 13:00 – 15:00
10:00 – 13:00	Olsztyn tour with a guide
13:30 – 14:30	Lunch
15:00 – 16.00	Official opening and welcome speeches
16:00 – 16:30	Making of commemorative photo and coffee break
16:30 – 18:00	Presentation of the main activities and achievements of the faculties/ departments (one short presentations from each University). Discussions and comments
18:15	Dinner

Tuesday, 25th of September, 2018

Hotel Park, Al. Warszawska 119 in Olsztyn, Poland

8:30 – 9:00	Registration
9.00 - 10.45	Oral session I - GEODESY SECTION Chairs: <i>Robert Duchnowski and Armands Celms</i>
10:45 – 11:30	Coffee break with poster session I Chairs: <i>Krystyna Kurowska and Tamara Myslyva</i>
11:30 -13:00	Oral session II - LAND MANAGEMENT SECTION Chairs: <i>Katarzyna Sobolewska-Mikulska and Audrius Aleknavičius</i>
13:00 - 14:00	Lunch
14:00 – 15.45	Oral session III - LAND MANAGEMENT SECTION Chairs: <i>Velta Paršova and Alina Źróbek-Rózańska</i>
15:45 – 16.15	Coffee break with poster session II Chairs: <i>Virginija Gurskiene and Cezary Kowalczyk</i>
16.15 - 17.45	Oral session IV – GEODESY and CADASTER SECTION Chairs: <i>Nataliia Stoiko and Oljerd Kempa</i>
17.45 -18.00	Closing session
18:30	Gala dinner

Time limit: up to 15-20 minutes for presentations in the plenary session and up to 15 minutes for discussions in the closing session

Language of presentation: English, Russian

Wednesday, 26th of May, 2018

9:00 – 15.00	Field session with lunch (picnic)
15.00 - 15.30	Come back to Olsztyn

Oral session I - GEODESY SECTION

Chairs: *Robert Duchnowski and Armands Celms*

- 1. Instability of reference points and its influence on R-estimates of point displacements**
Patrycja Wyszowska, Robert Duchnowski, University of Warmia and Mazury in Olsztyn (Poland)
- 2. Remote sensing technologies possibilities in the Castle Island measuring process in Jelgava**
Armands Celms, Aivars Ratkevičs, Velta Paršova, Jolanta Luksa, Latvia University of Life Sciences and Technologies (Latvia)
- 3. Local geodetic network development tendencies in Riga**
Armands Celms, Aivars Ratkevičs, Vivita Puķīte, Ilona Reķe, Vita Cintiņa, Jānis Akmentiņš, Latvia University of Life Sciences and Technologies (Latvia)
- 4. The problem of determination of the geoid**
Olga Pisetskaya, A. Yarmolenko, Belarusian State Agricultural Academy (Belarus)
- 5. Regional ionosphere modeling based on space-geodetic data**
Paweł Wielgosz, Anna Krypiak-Gregorczyk, Beata Milanowska, University of Warmia and Mazury in Olsztyn (Poland)

Oral session II - LAND MANAGEMENT SECTION

Chairs: *Katarzyna Sobolewska-Mikulska and Audrius Aleknavičius*

- 1. Similar and different aspects of spatial development planning in Latvia and England**
Vita Cintina, Irena Kukule, Vivita Puķīte, Latvia University of Life Sciences and Technologies (Latvia)
- 2. Conceptual approaches to increasing the efficiency of agricultural land use in the Republic of Belarus**
Andrej Kalmykov, Belarusian State Agricultural Academy (Belarus)
- 3. Legitimation of "special value" as a tool of legal protection of lands: the case of Ukraine**
Taras Ievsiukov, National University of Life and Environmental Sciences of Ukraine (Ukraine)
- 4. Assessment of the ecological state of degraded and disturbed lands in Ukraine**
Nadiia Kryshenyk, Roman Kuryltsiv, Lviv National Agrarian University (Ukraine)

Oral session III - LAND MANAGEMENT SECTION

Chairs: *Velta Paršova* and *Alina Żróbek-Róžańska*

- 1. Use of the agriculture land in Russian Federation**
Sergej Volkov, Vladimir Kosinskij, State University of Land Use Planning (Russia)
- 2. Environmental policy and land management in rural areas of Ukraine**
Nataliia Stoiko, Nadiia Kryshenyk, Olha Soltys, Oksana Cherechon, Lviv National Agrarian University (Ukraine)
- 3. Efficient use of soil in entrepreneur farming busy with grain-growing**
Natig Mirzayev, Lankaran State University (Azerbaijan)
- 4. Disadvantaged areas of Alba Iulia assessed by geographic criteria**
Daniel-Marcel Oprean-Craşoveanu, Ioan-Aurel Irimus, George-Mihai Rus, Tudor Bodea, Cristian Toganel, Babes-Bolyai University (Romania)
- 5. Moscow programme of renovation**
Elizaveta Kheifetz, Financial University of Russian Federation (Russia)

Oral session IV – GEODESY and CADASTER SECTION

Chairs: *Nataliia Stoiko* and *Olgierd Kempa*

- 1. Development of real property cadastre system**
Virginija Gurskiene, Velta Paršova, Lina Urbanaviciene, Aleksandras Stulginskis University (Latvia)
- 2. Practical aspects of the use of geospatial analysis methods in land management and cadaster**
Tamara Myslyva, B. Sheluto, O. Kutsaeva, S. Naskova, Belarusian State Agricultural Academy (Belarus)
- 3. The concept of land plot as a combination of smart contracts: a vision for creating blockchain cadastre**
Andrii Martyn, National University of Life and Environmental Sciences of Ukraine (Ukraine)
- 4. Current techniques used in land details surveying**
Adam Doskocz, University of Warmia and Mazury in Olsztyn (Poland)
- 5. Good practice in the conduct and report of survey research**
Ayodeji Aduralere Afolabi, University of Ilorin, Kwara State (Nigeria)

Poster presentations – session I

- 1. Proposals for evaluation of land degradation in Latvia**
Anda Jankava, Velta Paršova, Armands Celms, Maija Berzina, Aina Palabinska, Latvia University of Life Sciences and Technologies (Latvia)
- 2. Spatial planning in the area of the antique Warmia city centers**
Katarzyna Pietrzyk, Agnieszka Szczepańska, University of Warmia and Mazury in Olsztyn (Poland)
- 3. A new semantic trajectory ontology model for modelling and reasoning on movement data**
Mohammad Akbari, Ali Mousavi, University of Birjand (Iran)
- 4. The change of forest area in Alytus and Vilnius Counties (Lithuania)**
Giedre Ivaviciute, Aleksandras Stulginskis University (Lithuania)
- 5. Application of geoinformation systems for agroecological assessment of land**
Sergey Zudilin, O.Osorgina, Y.Osorgin, FSBEI HE Samara State Agricultural Academy (Russia)
- 6. Geoinformation modeling in automation of land use planning**
Sergey Zudilin, Y. Iralieva, FSBEI HE Samara State Agricultural Academy (Russia)
- 7. Cadastral valuation and ways to increase the cadastral value of agricultural land in the Almaty region**
Aidos Baimyrzayev, Virginia Gurskiene, Akerke Bekturganova, Kazakh National Agrarian University (Kazakhstan)
- 8. Research and development of methods for effective use of agricultural land use in the Almaty region**
Gulnura Akhmetkerimova, Akerke Bekturganova, Ardak Omarbekova, Kazakh National Agrarian University (Kazakhstan)
- 9. Perspectives of non-productive land use in Lithuania**
Edita Abalikštienė, Daiva Gudritienė, Kaunas Forestry and Environmental Engineering University of Applied Sciences (Lithuania)
- 10. Possibilities to use selected methods of spatial data mining in demographic data analytics**
Krystyna Kurowska, Ewa Kietlińska, Hubert Kryszk, University of Warmia and Mazury in Olsztyn (Poland)
- 11. The dynamics of changes in the development of cities and neighbouring municipalities - example Transylvania**
Jacek Kil, Cezary Kowalczyk, University of Warmia and Mazury in Olsztyn (Poland)

Poster presentations – session II

- 1. Ecological problems of agricultural land use in Samara region**
Sergey Zudilin, Alyona Konakova, FSBEI HE Samara State Agricultural Academy (Russia)
- 2. Analysis of forest cover and its improvement in Samara region**
Olga Sapova, Gabibulla R. Khasaev, Alexandr G. Vlasov, Dariya I. Vasilieva, Velta Paršova, Samara State University of Economics (Russia)
- 3. Benefits of large farms preliminary boundaries determination**
Audrius Aleknavičius, Aleksandras Stulginskis University (Lithuania)
- 4. Social participation as an element of participation in urban space management**
Katarzyna Kocur-Bera, University of Warmia and Mazury in Olsztyn (Poland)
- 5. Rules for revitalizing rural villages**
Tomasz Podciborski, University of Warmia and Mazury in Olsztyn (Poland)
- 6. Potential of brownfields as developing territories in Bratislava**
Miroslav Pánik, Miroslav Pánik, Slovak University of Technology in Bratislava, (Slovakia)
- 7. Analysis of existing spatial information systems in terms of their use for the renewal and revitalisation of rural areas**
Marek Ogryzek, Krzysztof Rząsa, Mateusz Ciski, University of Warmia and Mazury in Olsztyn (Poland)
- 8. Development of non-agriculture activity as a factor of rural areas development**
Wiesława Lizińska, University of Warmia and Mazury in Olsztyn (Poland)
- 9. Analysis of prices on the market of residential apartments with the use of mixed models**
Aneta Cichulska, Radosław Cellmer, University of Warmia and Mazury in Olsztyn (Poland)
- 10. Price and agricultural quality of agricultural properties**
Andrzej Morze, University of Warmia and Mazury in Olsztyn (Poland)
- 11. Making investment decisions using Voronoi diagrams**
Marta Figurska, University of Warmia and Mazury in Olsztyn (Poland)