



DSinGIS



**Геоинформатика
соҳасида докторантура**

**Doctoral Studies in
Geoinformation Sciences**



International Scientific and Practical Conference

**SCIENTIFIC-RESEARCH WORK IN THE FIELD OF GEOINFORMATICS:
CURRENT STATE AND PROSPECTS**

**October 19-20, 2018
Tashkent, Uzbekistan**

Халқаро илмий-амалий конференция

**ГЕОИНФОРМАТИКА СОҲАСИДА ИЛМҲИЙ ТАДҚИҚОТ ИШЛАРИ:
ҲОЗИРГИ ҲОЛАТИ ВА ИСТИҚБОЛЛАРИ**

**19-20 октябрь, 2018
Тошкент, Ўзбекистон**

Международная научно-практическая конференция

**НАУЧНО-ИССЛЕДОВАТЕЛЬСКИЕ РАБОТЫ В ОБЛАСТИ
ГЕОИНФОРМАТИКИ: СОВРЕМЕННОЕ СОСТОЯНИЕ И ПЕРСПЕКТИВЫ**

**19-20 октябрь, 2018
Ташкент, Узбекистан**

INVITATION AND PROGRAMME

<http://dsingis.eu/>

<http://geoinformatics.uz/dsingis/>

**MINISTRY OF HIGHER AND SECONDARY SPECIALIZED
EDUCATION OF THE REPUBLIC OF UZBEKISTAN**

**NATIONAL UNIVERSITY OF UZBEKISTAN
NAMED AFTER MIRZO ULUGBEK**

INVITATION AND PROGRAMME

of the International Scientific and Practical Conference

**«SCIENTIFIC - RESEARCH WORK IN THE FIELD OF
GEOINFORMATICS: CURRENT STATE AND PROSPECTS»**

Dear _____!

*The Organizing Committee invites you to take part in the
conference «Scientific - research work in the field of Geoinformatics:
current state and prospects»*

*Conference will be held from October 19-20, 2018 in the National
University of Uzbekistan.*

**Registration for the conference will be held on 19th of October from 9⁰⁰
to 10⁰⁰ in the small conference hall of center of Youth Union.**

**October 19 – 20, 2018
TASHKENT, UZBEKISTAN**

TIME TABLE OF THE CONFERENCE

Friday October 19, 2018

9 ⁰⁰ -10 ⁰⁰	Registration of participants of the conference	
10 ⁰⁰ -11 ³⁰	Opening of the conference and first plenary session	
11 ³⁰ -11 ⁴⁵	Coffee break	
11 ⁴⁵ -12 ⁴⁵	Second plenary session	
13 ⁰⁰ -14 ⁴⁵	Lunch	
15 ⁰⁰ -16 ⁰⁰	Third plenary session	Special session
16 ⁰⁰ -16 ¹⁵	Coffee break	
16 ¹⁵ -18 ⁰⁰	Fourth plenary session	Special session
18 ³⁰ -21 ⁰⁰	Dinner	

Saturday October 20, 2018

9 ⁰⁰ -11 ⁰⁰	Work of section	
11 ⁰⁰ -11 ¹⁵	Coffee break	
11 ¹⁵ -13 ⁰⁰	Work of sections	Master class
13 ⁰⁰ -14 ⁴⁵	Lunch	
15 ⁰⁰ -16 ⁰⁰	Section reports, closing of the conference	

RULES OF THE CONFERENCE

1. Working languages: English, Russian, Uzbek
2. Speaking time:
plenary lecture – 15-20 min.
section reports – 10-15 min.

ORGANIZING COMMITTEE

Chairman::

Marakhimov Avazjon Raximovich

- Rector of the National University of Uzbekistan named after Mirzo Ulugbek (NUU)

Co-chairmen:

Abdullaev Abdushukur Khamidovich

- Chairman of the State Committee of the Republic of Uzbekistan on Land Resources, Geodesy, Cartography and State Cadastre

Vice-chairmen:

Turayev Abbosxon Sobirxonovich

- Vice rector, NUU

Members:

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National ERASMUS+ Office coordinator

Dr. Rasul Rakhmonov

Vice-rector, NUU

Dr. Vakhid Ibodullaev

Vice-rector, NUU

Dr. Takhirjon Sultanov

Vice-rector of Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME)

Dr. Erkin Isakov

The Vice-rector of the Samarkand state architectural and civil engineering institute (SamSACEI)

Dr. Ravshan Nurimbetov

The Vice-rector of the Tashkent Institute of Architecture and Construction (TIAC)

Dr. Tulkin Abdullaev

First Deputy Chairman of the State Committee of the Republic of Uzbekistan on Land Resources, Geodesy, Cartography and State Cadastre

Dr. Lorant Foldvary

Coordinator of the DSinGIS Project, Vice dean on scientific affairs at Obuda University (OU), Alba Regia Technical Faculty

Prof. Béla Márkus

Manager of the DSinGIS Project, OU

Prof. Josef Strobl	Project partner coordinator, Head of Department of Geoinformatics and Z_GIS University of Salzburg (PLUS)
Prof. Huaan Fan	Project partner coordinator, Associate professor at Royal Institute of Technology (KTH)
Dr. Daniel Müller	Project partner coordinator, Deputy Head of Department Structural Change Leibniz Institute of Agricultural Development in Transition Economies (IAMO)
Mr. Shavkat Turaev	Deputy Head of the Department for Coordination of Research Activities at the Ministry of Higher and Secondary Specialized education of the Republic of Uzbekistan
Dr. Zakhirkhodja Tadjikhojaev	Head of the department of the Supreme Attestation Commission
Dr.Fazliddin Hikmatov	Chairman of the Geographical Society of Uzbekistan
Dr. Polat Reymov	Associate professor of the Geography Department of Karakalpak State University (KSU), head of GIS Center.
Dr. Shavkat Sharipov	Dean of the Geography and Natural resources faculty, NUU
Dr. Khamid Muborakov	Head of Geodesy and Geoinformatics department, NUU
Prof. Eshkabul Safarov	Head of Cartography department, NUU

PROGRAM COMMITTEE

Chairmen:

Asomberdi Egamberdiev	Associate Professor of Cartography Department, NUU
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Vice-chairmen:

Ilkhomjon Abdullaev	Senior lecturer of Geodesy and Geoinformatics Department, NUU
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Members:

Dr. Djurabay Karabaev	Associate Professor of Cartography Department, NUU
Mrs. Sevar Salohitdinova	Senior lecturer of Cartography Department, NUU
Ilhom Abdurahmanov	Head of International Relations Department, TIAME
Mamanbek Reimov	PhD researcher, TIAME
Otabek Avezbaev	Senior teacher at the Department of Geodesy and cadaster, TIAC
Vokhidjon Niyazov	Senior teacher of the Department "Geodesy, Cartography and Cadastre, SamSACEI
Yakhshimurad Khudaybergenov	Assistant at the Geography Department, KSU

EXECUTIVE COMMITTEE:

Azizjon Ruziev	Senior lecturer of Geodesy and Geoinformatics Department, NUU
Shavkat Prenov	Senior lecturer of Cartography Department, NUU
Gayrat Yakubov	Teacher of Geodesy and Geoinformatics Department, NUU
Abdujalil Muminov	Teacher of Cartography Department, NUU
Bakhritdin Yusupov	Teacher of Cartography Department, NUU
Dilshod Rakhmonov	PhD student of Geodesy and Geoinformatics Department, NUU

OPENING CEREMONY

on October 19, 2018, 10⁰⁰-10³⁰

Venue: Small conference hall of center of Youth Union

Chairman: Dr. Sh. Sharipov

Greeting participants of the conference

- **A.R. Marakhimov**– Rector of the National University of Uzbekistan
- **A.Kh. Abdullayev**– Chairman of the State Committee of the Republic of Uzbekistan on Land Resources, Geodesy, Cartography and State Cadastre
- **U.Sh. Begimqulov**– Deputy Ministry of Higher and Secondary special Education of the Republic of Uzbekistan
- **U.P. Umurzakov** - Rector of the Tashkent Institute of Irrigation and Agricultural Mechanization Engineers
- **Mrs. A.K. Abdurakhmanova** – National ERASMUS+ Office coordinator
- **Dr. L. Foldvary** – Coordinator of the DSinGIS Project

THE FIRST PLENARY SESSION

on October 19, 2018, 10³⁰-11³⁰

Venue: Small conference hall of center of Youth Union

Chairman: Dr. Sh. Sharipov

1. Prof. J. Strobl. Without GIS we are Nowhere – Open Spatial Data Infrastructures for Society and Business
2. Dr. T. M. Abdullaev, S.A.Karabazov, Sh.Q.Mayinov. Updating data using geoinformation technologies in geodesy and cartography
3. Prof. Mirzaliev T.M., prof. Egamberdiev A., prof. Safarov E.Y., Dr. Karabaev J.S., Muminov A.A. General description of the National Atlas of Uzbekistan

SECOND PLENARY SESSION

on October 19, 2018, 11⁴⁵-12⁴⁵

Venue: Small conference hall of center of Youth Union

Chairman: Dr. Shavkat Sharipov

1. Dr. Földváry L. De-smoothing of block-wise gridded Geoinformation
2. Dr. Gulyamova L. Open Source Resources: challenges and prospects to manage land use in midsized cities in Uzbekistan
3. Dr. Isakov E. Kh. Application of modern electronic geodesic devices (GIS technologies) for the production of surveying architectural monuments
4. Prof. Hikmatov F. Kh., Dr. Adenbaev B.E., Dr. Yunusov G.Kh., Magdiev Kh. H. Experience of making the Atlas of surface water of Uzbekistan and the adjacent territories

THIRD PLENARY SESSION

on October 19, 2018, 15⁰⁰-16⁰⁰

Venue: Small conference hall of center of Youth Union

Chairman: Dr. Shavkat Sharipov

1. Dr. Reymov P.R., Dr. Mamutov N.K., Statov V.A., Khudaybergenov Y.G., Bekanov K.K. Geoinformatics Center of Karakalpak State University: progress and expertise
2. Mukhamedjanov I.D., Lupyan E.A., Uvarov I.A. Satellite monitoring of seasonal dynamics of the reservoirs of the Vakhsh cascade
3. Dr. Mirmakhmudov E., Abdumuminov B., Begimqulov Q. Using GIS Panorama to build a some Digital Elevation Models in National University of Uzbekistan
4. Dr. Tóth Z., Balázsik V. Practical experiences of applying GIS technology in archeology

FOURTH PLENARY SESSION

on October 19, 2018, 16¹⁵-18⁰⁰

Venue: Small conference hall of center of Youth Union

Chairman: Dr. Shavkat Sharipov

1. Dr. Rakhmonov K. Systematic approach to the development of Land Cadastre Information
2. Dr. Niyazov D. B., Saidov S.M., Imomov K.F. Investigation of the mudflow area of Tibolay river (Tajikistan) with application of GIS of technologies.
3. Dr. Tibor M. Pintér, Abdullaev I. The glossary of Geospatial terms for the benefit of Uzbek GIS-community

SPECIAL SESSION

on October 19, 2018, 15⁰⁰-18⁰⁰

Chairmen: Prof. Bela Markus

Secretaries: Adam Podolcsak.

Room: Meeting room

1. Prof. Markus B. Targeted training and knowledge transfer programs for cadastre and registration.
2. Podolcsak A., Dr. Samborsky A., Mamatov A. Capacity building for the modernisation of real property and cadastre system.
3. Finne A., Dr. Samborsky A., Boltoboyev F. ICT strategy for land administration and NSDI in Uzbekistan.
4. Vasiljev V., Nishanov B., Magdiev H. Digitization of real property registration and cadastre data in Uzbekistan
5. Dr. Samborsky A., Tolvanen J.P. Legal aspects in modernization of the real property registration and cadastre

WORKSHOPS

SECTION №1.

GEOINFORMATICS IN GEODETIC OPERATIONS AND APPLICATION OF GEOINFORMATION TECHNOLOGIES IN ARCHITECTURE AND CONSTRUCTION.

on October 20, 2018, 9⁰⁰-16⁰⁰

Chairmen: Dr. Muborakov Kh.

Secretaries: Yakubov G.

Room: 511

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1. Nur Belkayalı, Yavuz Güloğlu, Ozodbek Karamatov. Planning innovative urban parks: case study from Kastamonu, Turkey.
 2. Uspankulov B.M., Kadirov O.Q., Ismanov Sh.P. Advantages of maintaining a three-dimensional (3D) state cadastre of buildings and structures in Uzbekistan.
 3. Saydalieva G.A. Modern technologies for the development of cadastral documents for land and real estate.
 4. Dr. Isakov E.Kh. Research on the application of modern electronic devices for making front plans of the walls of monuments of architecture.
 5. Dr. Abduazizov A., Kutumova G.S., Allanazarov O.R. Ways of development of the geodesic basis for cadasters using GIS technologies
 6. Suyunov Sh.A., Karimova U.E., Fayziev Sh.Sh. Investigation of transfer of optical images in the cloud atmosphere by inclined tracts

SECTION №2.

**THEMATIC CARTOGRAPHY, WEB-CARTOGRAPHY, MAPPING
SERVICES AND ITS APPLICATIONS.**

on October 20, 2018, 9³⁰-16⁰⁰

Chairmen: prof. Egamberdiev A.

Secretaries: Muminov A.

Room: 505

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1. Usmanov S., Olimkhon Kh., Irisbaev M. Hydro Morphological Mapping of Aksagatsay Watershed Using GIS and Remote Sensing Data.
 2. Salokhitdinova S.S Cartographic sources as a geographical basis for Geographical Information Systems
 3. Prenov Sh.M., Safarov E.Y., Allanazarov O.R., Avezov S. Role of geoinformation systems in the development of mapping methodology ecological - meliorative condition
 4. Allanazarov O.R., Prof. Safarov E.Y. Prenov Sh.M., Gulmirzaev F. About the algorithm of cartographic provision of the communication objective cadaster
 5. Khakimova K.R., Makhamadaliev R.Y., Mannopov Kh. Development of maps for the study of nature protection and rational nature use in the Fergana valley.
 6. Rakhmonov D.N., Yakubov G.Z., Toshov Kh. Importance of the interactive dynamic maps population.
 7. Khakimova K.R., Egamberdieva M.M., Eshnazarov D. Using of GIS technologies for development digital ecological maps

SECTION №3.

**GEOSPATIAL ANALYSIS AND MODELING.
PROCESSING AND ANALYSIS OF REMOTE SENSING DATA.**

on October 20, 2018, 9⁰⁰-16⁰⁰

Chairmen: Dr. Mirmakhmudov E.

Secretaries: Ruziev A.

Room: 109

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1. Dr. Sabine Hennig. How to make online geospatial participation a success?
 2. Dr. M. Verőné Wojtaszek. Remote Sensing based detection of spatial variability within a field
 3. Mayinov Sh.Q., Sirojov S.A., Safaev C.Z. Creating 3D models using UAV data.
 4. Shukina O.G. Automated aerial photography using the Geoscan software and hardware complex
 5. Dr.Muborakov Kh., Ruziev A.S., Abdullaev I.U. Application of remote sensing data for calculation of design parameters and monitoring of reservoirs regime

SECTION №4.

CADASTRAL SERVICES IN THE MANAGEMENT OF NATURAL RESOURCES. GEOINFORMATICS IN ENVIRONMENTAL PROTECTION, RATIONAL USE AND MANAGEMENT OF LAND AND WATER RESOURCES.

on October 20, 2018, 9⁰⁰-16⁰⁰

Chairmen: prof. Hikmatov F.

Secretaries: Yunusov G.

Room: 506

1. Yavuz Gülođi, Nur Belkayali, Dr. Karamatov O.O. Legislation changes in order to protect agricultural lands in turkey and judicial audit
2. Dr. Karamatov O.O., Sadikova G.F. Geoinformatics and land cadastral information support for evaluating the effectiveness of innovations in the agriculture
3. Dr. Artikova F.Y., Sagdiev N.Z., Khamzaeva J.T. A question of the statistical evaluation of extended costs rows of coxu river water.
4. Ashurov A.F. Condition and development of land-management of the manufacturing fund and questions GIS application for managing them.
5. Inamov A.N., Abdusamatov O.Z. Mamatkulov Z.J. Application of modern innovative technologies in water supply characteristics.
6. Rakhmonov K.R., Shavazov T.K., Uspankulov B.M. The introduction of innovative technologies in the management of the land cadaster.
7. Boltaeva L.A., Jaloliddinov B.M. Application of Geoinformatics in meteorology.
8. Halimova G., Zaitov Sh. Using of Geographic Information Systems for estimating water resources of the Kulzhutau system.
9. Erlapasov B.N., Ziyaev R.R. Application of GIS technologies in mapping mountain rivers by flow sources.
10. Magdiev Kh.H., Rakhmonov K.R. Mapping of soil washing from river basin using GIS technology.
11. Hikmatov B. Using of GIS technology in the creation of maps of lakes and reservoirs of Uzbekistan.
12. Dr. Shadjalilov Sh.Sh., Dr. Abdullaev I.Kh. Negative consequences of pollution of the Akhangaran valley landscapes under the influence of anthropogenic factors
13. Ergasheva Y.Kh., Egamberdiev Kh.T. Using of the Geoinformation System of observation results for Solar radiation in Uzbekistan.
14. Narbaev Sh., K., Axmadaliev B.A. Zoning area based on gis in sustainable land use

SECTION №5.

**GEOINFORMATION TECHNOLOGIES IN THE EDUCATION
SYSTEM. THE ROLE OF GEOINFORMATION TECHNOLOGIES IN
THE EARTH SCIENCES.**

on October 20, 2018, 9⁰⁰-16⁰⁰

Chairmen: Prof. Sabitova N.I.

Secretaries: Dr. Nikadambaeva H.B.

Room: 215

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1. Prof. Sabitova N., Tadjibaeva N.R., Stelmakh A.G. Use of flow structures in evaluation landslide processes
 2. Uvraimov S.T., Prof. Safarov E.Y. The role of the geoinformation database in the history of development of geodesy and cartography.
 3. Dr. Nikadambaeva H.B., Ergasheva M.K. Using of GIS technology in teaching geography.
 4. Dr. Ibraimova A.A. Some features of the distribution of geographical names in maps.
 5. Dr. Tadjieva Z.N., Dr. Makhamadaliev R.Y. Territorial organizations of urban inhabitants in Uzbekistan and the demogeographic aspects of urbanization.
 6. Babakhanova Sh.O., Dr. Sharipov Sh.M. Features of natural and cultural memorials in Tashkent region
 7. Mamajanova D.M., Dr. Sharipov Sh.M. Analyzes the origin of flood events in the Namangan region with the help of stream basins



**Small conference hall of the
center of Youth Union**

The image is an aerial photograph of a university campus. A red line with arrows at each end connects four specific locations. The locations are marked with red triangles and labeled with yellow text. The labels are: 'Small conference hall of the center of Youth Union' (top), 'Rooms - 511, 506, 505, 213, 109' (middle-left), 'Second floor Meeting room' (middle-right), and '223-Computer Labs' (bottom). The red line starts at the top location, goes down to the middle-left location, then continues down to the middle-right location, and finally goes down to the bottom location. The campus features various buildings, green spaces, and a large parking lot on the right side.

**Rooms - 511, 506,
505, 213, 109**

**Second floor
Meeting room**

223-Computer Labs