



Agenda of the Central Asia GIS Conference – GISCA 2023 and Project Workshops

"Geospatial approaches to understanding a changing world"

May 30-31, 2023, Razzakov Kyrgyz State Technical University (KSTU),
66. Chyngyz Aitmatov Avenue, Bishkek, Kyrgyzstan

May 26-29	
10:00-17:00	GISCA 2023 Pre Conference Workshop - APPEAR DEvision Project (KSTU Campus 1, Kyrgyz-Korea Information Access Centre 2/401)
May 29, Monday	
17:30-19:00	GISCA 2023 - Ice Breaker (KSTU Campus 1, Kyrgyz-Korea Information Access Centre 2/401)
May 30, Tuesday	
OPENING SESSION (KSTU Campus 1, Conference Hall 1/314)	
08:30	Registration of Conference participants
09:00	Welcome Addresses: - Mirlan Chynybaev – Rector of the Razzakov Kyrgyz State Technical University, Kyrgyzstan - Rasul Abazbek uulu – Deputy Minister of Education and Science, Kyrgyzstan - Kanatbek Abdrakhmatov – President of the National Academy of Sciences, Kyrgyzstan - Gulnara Isaeva – Coordinator of the National Erasmus+ Office in Kyrgyzstan - Josef Strobl – Academician, Austrian Academy of Sciences / University of Salzburg, Austria - Luis Ángel Ruiz – Professor, Polytechnic University of Valencia, Spain
09:30	Keynote speaker – Prof. Dr. Luis Ángel Ruiz, Polytechnic University of Valencia, Spain. <i>Urban mapping through object-based image analysis.</i>
10:00	Keynote speaker – Dr. Manfred Mittlböck, University of Salzburg, Austria. <i>3D & 4D GIS – Digital environment twins for the metaverse.</i>
10:30	Coffee break
11:00	Keynote speaker – Albert Momo, Vice President and Executive Director, Trimble.
11:10	Akylbek Chymyrov, Razzakov Kyrgyz State Technical University, Kyrgyzstan. <i>Academic and research activities of the Austria-Central Asia Centre (ACA*GIScience) in Kyrgyzstan.</i>
11:30	Huaan Fan, KTH Royal Institute of Technology, Sweden. <i>Water level variations in the Issyk-Kul Lake and the role of climate variables (Authors: Armin A. Karimi, Huaan Fan, Luis A. Ruiz, Zahra Gharineiat)</i>
12:00	Lunch
14:00	Kanat Samarkhanov, D. Serikbayev East Kazakhstan Technical University, Kazakhstan. <i>Analysis of crop spectral reflectance at the cropland in Eastern Kazakhstan using satellite imagery (Authors: K. Samarkhanov, M. Sadenova, N. Beisekenov)</i>
14:20	Eldar Kurbanov, Denis Dergunov, Volga State University of Technology, Russia. <i>Modelling of forest dynamics in the Middle Volga region based on satellite data and climate scenarios (Authors: E.A. Kurbanov, D.M. Dergunov, O.N. Vorobyov, S.A. Lezhnin, A.V. Gubaev)</i>
14:40	Cholponbek Ormukov, American University of Central Asia, Kyrgyzstan. <i>GIS based analysis of land use dynamics in Bishkek (Authors: Ch. Ormukov, M.M. Dyldaev, M. Beishenkulova)</i>
15:00	Sabine Hennig, University of Salzburg, Austria. <i>Towards more user-centered contributory citizen science applications: learning from the u3Green approach (Authors: S. Hennig, R. Vogler)</i>
15:20	Coffee break
16:00	Jesús Torralba, Polytechnic University of Valencia, Spain. <i>Laser scanner and UAV high-density point clouds for forest inventory and management (Authors: Jesús Torralba, Luis A. Ruiz, Pablo Crespo-Peremarch, Juan P. Carbonell-Rivera)</i>
16:20	Muhabat Sirazhitdinova, Institute of Hydrobiology and Ecology, Kazakhstan. <i>Application of GIS technologies to assess the distribution of Caspian seal (Pusa caspica) in the north-east Caspian (Authors: M.K. Sirazhitdinova, S.E. Ryskulov, D.A. Seitkozhiba, M.T. Baimukanov)</i>

16:40	Oleg Vorobiev, Eldar Kurbanov, Volga State University of Technology, Russia. <i>Impact of climate change on forest fires in the middle Volga region based on the time series satellite images</i> (Authors: O.N. Vorobiev, E.A. Kurbanov, S.A. Lezhnin, A.V. Gubaev, D.M. Dergunov)
17:00	Almaz Abdiev, State land management institute "Kyrgyzgiprozem", Kyrgyzstan. <i>Transformation into World Geodetic System and Land Information Management Advancement Consulting Pilot Project in Kyrgyz Republic</i> (Authors: Almaz Abdiev, Mike Kim)
17:20	Closing of the first day of GISCA 2023
19:00	Dinner (Ala-Too Restaurant, Maldybaev street, 54/1)
May 31, Wednesday (KSTU Campus 1, Kyrgyz-Korea Information Access Centre 2/331)	
Erasmus+ GeoTAK Project Session	
09:00	Luis Ángel Ruiz, Polytechnic University of Valencia, Spain. <i>GeoTAK project: towards new PhD programmes and technology transfer in Geoinformation</i>
09:20	Akylbek Chymyrov, Razzakov Kyrgyz State Technical University, Kyrgyzstan. <i>Identification and analysis of research and development needs of Postgraduate Programs in Geoinformation Technology</i>
09:40	Naira Aloyan, Armenian National Agrarian University, Armenia. <i>GeoTAK project presentation</i>
10:00	Artak Piloyan, Yerevan State University, Armenia. <i>GeoTAK project presentation</i>
10:20	Coffee break
10:40	Gulshaan Ergeshova, Osh Technological University, Kyrgyzstan. <i>GeoTAK project presentation</i>
11:00	Varazdat Hovhannisyan, National University of Architecture and Construction of Armenia. <i>GeoTAK project presentation</i>
11:20	Artak Piloyan, Yerevan State University, Armenia. <i>Assessing Spatio-temporal changes of floating aquatic vegetation in lake Sevan using Landsat imagery and vegetation indices</i>
11:40	Armine Hambardzumyan, Armenian National Agrarian University, Armenia. <i>The Application of GIT in the fields of environmental protection</i>
12:00	Lunch
14:00	Alexander Zubovich, Central-Asian Institute for Applied Geosciences (CAIAG), Kyrgyzstan. <i>Information systems using web mapping services</i> (Authors: A.V. Zubovich, D.A. Madnychev, M.M. Zhantaev, S.S. Barkalov)
14:20	Tie Liu, Xinjiang Institute of Ecology and Geography, China. <i>Groundwater Level Response to Climate Change and Human Activities in Dry Regions: A Case Study in the Amu Darya Delta</i>
14:40	Mike Kim, GeoTwo, Korea. <i>Innovations Development Cooperation</i>
15:00	Alina Tynybekova, Razzakov Kyrgyz State Technical University, Kyrgyzstan. <i>Agricultural land use dynamics - A case study of Kumkurgan District, Uzbekistan.</i> (Authors: Kh. Abdivaitov, J. Strobl, A.Tynybekova)
15:20	Coffee break
16:00	Nurlan Zhusupov, State Design Institute "Kyrgyzdortransproekt", Kyrgyzstan. <i>Use of unmanned Aerial vehicle applications in high altitude engineering surveys. The example of Chapchyma Pass Road Design, Kyrgyzstan</i> (Authors: N. Zhusupov, T.K. Urmambetova, S. Hennig)
16:20	Sergei Lezhnin, Aleksandr Gubaev, Volga State University of Technology, Russia. <i>Estimation of carbon sequestration by forest stands on the abandoned agricultural lands using Sentinel-2 multitemporal composites</i> (Authors: S.A. Lezhnin, A.V. Gubaev, O.N. Vorobiev, E.A. Kurbanov, D.M. Dergunov)
16:40	Ulan Chortombaev, Razzakov Kyrgyz State Technical University, Kyrgyzstan. <i>Application of innovative technologies for determining and assessing the quality of civil objects</i> (Authors: E.G. Rodionova, U.T. Chortombaev, A.T. Chortombaeva)
17:00	Bohao Wei, School of Geography and Tourism, Xinjiang Normal University, China. <i>Spatial-temporal variation and prediction of ecosystem services in urban agglomerations on the northern slope of the Tianshan Mountains</i>
17:20	Closing of GISCA 2023 with a 'Vision Keynote'. Prof. Dr. Josef Strobl, Austrian Academy of Sciences / University of Salzburg, Austria
June 1-9	
GISCA 2023 Post Conference Workshop - Erasmus+ GeoTAK Project (Razzakov Kyrgyz State Technical University, Osh Technological University, Cholpon-Ata city)	

*the working language of the conference and seminars is English;

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