



ICCGIS 20 YEARS

10th
International
Conference on
Cartography
& GIS Jubilee
edition

14 - 19 June 2026
Nessebar, Bulgaria

PROGRAM

Bulgarian Cartographic Association
University of Architecture, Civil Engineering and Geodesy

Endorsed by
International Cartographic Association

10th INTERNATIONAL CONFERENCE ON CARTOGRAPHY AND GIS

14 - 19 JUNE 2026
NESSEBAR, BULGARIA

PROGRAMME

Editors: Temenoujka Bandrova, Milan Konečný, Silvia Marinova

Reviewers: Otakar Čerba, Philippe De Maeyer, Dariusz Dukaczewski, Bashkim Idrizi, Monika Kopecká, Miljenko Lapaine, Christophe Lienert, Valentina Nikolova, Lyubka Pashova, Dušan Petrovič, José Jesús Reyes Nunez, Robert Roth, Zdeněk Stachoň, Necla Ulugtekin, Rumiana Vatsseva, Georgi Zhelezov

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The event is organized with the support of the Bulgarian Science Fund
Събитието се организира със съдействието на Фонд "Научни изследвания",
договор № КП-06-МНФ/39, 12.12.2025

Фонд „Научни изследвания“ не носи отговорност за съдържанието на докладите, представени на научния форум, както и за съдържанието на рекламните и други материали за него.

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GEORGI ZHELEZOV

National Institute of Geophysics, Geodesy and Geography,
Bulgarian Academy of Science

Plenary sessions:

The duration of each oral presentation is 15 minutes, including 2–3 minutes allocated for discussion and questions. All presentations will be delivered in English, the official language of the conference.

Poster Sessions:

Authors will be present at their posters for questions and scientific discussion.

REGISTRATION

SUNDAY, June 14, 2026 15:00-17:00

ARTIUM CENTER

MONDAY, June 15, 2026 08:30-09:30

ARTIUM CENTER

June 15 09:30-10:45

LIBRARY HALL

SESSION L1: GIS TECHNOLOGIES AND INTERDISCIPLINARY APPLICATIONS

CHAIR: Pavel Špulák

09:30 **GÁSPÁR ALBERT** and *Orsolya Csirke* (Hungary)

Network Density Heatmaps for Reconstructing Imperial Roads in Roman Pannonia

09:45 **ROSITSA YANEVA**, *Songtao Ai, Lyubomir Ivanov, Jiachun An, Christo Pimpirev, Dragomir Mateev, Mingliang Liu, Hanxiao Yuan* and *Runchuan Ouyang* (Bulgaria, China)

Cartography and Geographic Information for Geographical Entity Naming in the South Shetland Islands, Antarctica

10:00 **FILIP DOHNAL**, *Radek Procházka, Marian Rybanský* and *Václav Talhofer* (Czech Republic)

GIS-Based Analysis of Excavations as Mobility Obstacles in Military Engineering

10:15 **BARBARA PRUS** and *Stanisław Bacior* (Poland)

Modern Challenges in the Changing River Shoreline Determining and Its Mapping – a Case Study From Poland

10:30 *Almir Rushiti*, **BASHKIM IDRIZI** and *Meri Cvetkovska* (North Macedonia)

A Spatially Explicit GIS Framework for Urban Fire Risk: Multi-Scale Exposure–Vulnerability Modeling in Kumanovo



COFFEE BREAK 10:45-11:15

SESSION L2: GIS TECHNOLOGIES AND INTERDISCIPLINARY APPLICATIONS

CHAIR: Dušan Petrovič

11:15 *BARTŁOMIEJ WYRZYKOWSKI* and *Albina Mościcka* (Poland)

Implementation of the 3-30-300 Green City Concept: a Case Study of Warsaw

11:30 *NIKOLAY KRASTANOV* (Bulgaria)

Legacy Vs Modern: a Comprehensive Study and Comparative Analysis of OGC Standards for Publishing Geospatial Data

11:45 *GÁSPÁR ALBERT* and *Munkhsuren Badrakh* (Hungary)

Automated Structural Analysis and Directional Validation Using PCA-Transformed Sentinel-2 Imagery: a Case Study From the Tsagaan-Uul Region, Southern Mongolia

12:00 *ELIA STOYANOVA* (Bulgaria)

Geospatial Monitoring of Tailings Storage Facility Dynamics Using Multispectral Remote Sensing: a 50-Year Case Study of the Benkovski Tailings Storage Facility, Bulgaria (1975-2025)

12:15 *NIKOLAY LYASKOVSKI* (Bulgaria)

Modern Nautical Cartography and Hydrographic Surveying for Safety of Navigation

BREAK 12:30-14:30

OPENING CEREMONY

10th International Conference on Cartography and GIS

Greetings

- **Prof. Dr. Temenoujka Bandrova** – President of the Bulgarian Cartographic Association
- **Mr. Nikolay Dimitrov** – Mayor of Nessebar Municipality
- **Prof. Dr. Milan Konečný** – President of the International Organizing Committee of 10CCGIS, Czech Republic
- **Prof. Dr. Georg Gartner** – President of the International Cartographic Association (ICA), Austria
- **Mr. Nick Land** - ESRI Europe, UK
- **Mr. Alexander Tasev** - Octave, Bulgaria
- Other Distinguished Guests

3 minutes each

Greetings to all participants from

*United Municipal School of Arts,
Nessebar, led by Denislav Kehayov.*

*The children will present folk songs
and traditional dances, bringing the
spirit and richness of Bulgarian
folklore to the stage.*



June 15 15:30-16:30

CONCERT HALL ARTIUM

KS1: KEYNOTE SESSION

CHAIR: Temenoujka Bandrova

15:30	GEORG GARTNER (ICA President, Austria) The Influence of AI on Modern Cartography
16:00	MIN CHEN (Nanjing Normal University, China) Geographic Modeling and Simulation in the AI Era



COFFEE BREAK 16:30-17:00

June 15 17:00-18:20

CONCERT HALL ARTIUM

KS2: KEYNOTE SESSION

CHAIR: Milan Konečný

17:00	ANTHONY ROBINSON (Penn State University, USA) Cartography: Where Everything Old Is New Again
17:30	NICK LAND (Esri Europe, UK) Towards a Global Geospatial Infrastructure
18:00	ALEXANDER TASEV (Octave, Bulgaria) Unleash Intelligence From Your Geospatial Data

June 15 18:25

Group Photo of all participants in front of Artium Center

June 15 18:30-19:30

ARTIUM CENTER

WELCOME RECEPTION

sponsored by ESRI



June 16 09:00-10:15

LIBRARY HALL

SESSION L3: DIGITAL EARTH: DATA SOURCES, TECHNOLOGIES, AND VISUAL ANALYTICS | GEOINFORMATION FOR SMART AND SUSTAINABLE CITIES

CHAIR: Zdeněk Stachoň

09:00 **KRZYSZTOF POKONIECZNY**, *Wojciech Dawid* and *Marek Wyszyński* (Poland)

Spatial Digital Twin for Crisis Management and Military Applications

09:15 **OTAKAR ČERBA** (Czech Republic)

Data for Thematic Maps of European Regional Typology to Illustrate Comparisons of Biodiversity with Technological Development and Socio-Economic Indicators

09:30 **ZURAB LAOSHVILI** (Georgia)

Geographic Information Systems in the Sustainable Development of Tbilisi Public Transport

09:45 **WOJCIECH DAWID**, *Krzysztof Pokonieczny* and *Marek Wyszyński* (Poland)

An Automated Multi-Metric Framework for Comprehensive Comparison of Building Spatial Datasets

10:00 **MIGLENA KUZMANOVA** and *Denitsa Savova-Georgieva* (Bulgaria)

ArcGIS Living Atlas – the Nervous System of the Planet Behind the Maps



COFFEE BREAK 10:15-10:45

SESSION L4: ARTIFICIAL INTELLIGENCE IN CARTOGRAPHY AND GIS

CHAIR: Jakub Wabinski

10:45 *MARINA PEKO* (Croatia)

Agentic AI for Spatial Data Visualization: From Natural Language to Interactive Map

11:00 *FILIP ŚWIĄTEK* and *Izabela Karsznia* (Poland)

Automatic Vectorization of Old Maps Using Artificial Intelligence: a UNet-Based Approach

11:15 *KACPER SOBCZAK* and *Izabela Gołębiowska* (Poland)

Evaluating the Quality of AI-Generated Thematic Maps

11:30 *YURY PHILIPPOV* (Russia)

Unified Digital Platform “National Spatial Data System”: Creation, Development and Scale-Up

11:45 *GANG CHEN, Zongjun Wei, Xiaoxuan Zhao, Biao Wu, Zhihao Li* and *Xiangfei Yang* (China)

Smart Cartography of Cultural-Context Maps: a Case Study on the Intelligent Mapping of Jiangnan Regional Culture

BREAK 12:00-14:00

SESSION L5: CARTOGRAPHY AND GIS IN EDUCATION | ARTIFICIAL INTELLIGENCE IN CARTOGRAPHY AND GIS

CHAIR: Dariusz Dukaczewski

14:00 *JOSÉ JESÚS REYES NUNEZ* (Hungary)

Geography of Cuba: a Virtually Unknown Chapter in Erwin Raisz' Work-Life

14:15 *YOUNG-HOON KIM* and *So-Yeon Kim* (Republic of Korea)

Critical Thinking in Cartographic Education and Learning with Generative AI: a Prompt-Engineering Framework for Identifying AI Hallucinations in the East Sea Naming Dispute

14:30 *EKATERINA PODOLSKAIA*, *Maria Sakirkina* and *Anna Sinitsina* (Russia)

Redesign of Machine Learning in Geospatial Studies Course by Incorporating Geo-Artificial Intelligence Tools

14:45 *Demetre Modebadze* and *SABA MODEBADZE* (Georgia)

Challenges of Geography Teaching in the Digital Age: Analysis and Perspectives of Georgian Video Content

15:00 *Peter Thuku*, *Catherine Njore*, *Martin Chege*, *Brian Kibet*, *Ivan Kipruto*, *Denitsa Savova-Georgieva* and *DENITSA SAVOVA-GEORGIEVA* (Kenya, Bulgaria)

Integrating Hands-On Cartographic Products Into Kenya's Competency Based Education System

15:15 *ANNA AUERMÜLLEROVÁ*, *Gabriela Godišková*, *Zdeněk Stachoň* and *Alžběta Šašínková* (Czech Republic)

A Data-Driven Story Map for Distance Learning: Insights for Universities and Students

COMMISSION MEETING ICA COMMISSION ON CARTOGRAPHY AND CHILDREN

CHAIR: Silvia Marinova

June 17 09:00-10:15

LIBRARY HALL

SESSION L6: MAP DESIGN, USABILITY, AND PRODUCTION WORKFLOWS | MOBILE MAPPING AND DATA ACQUISITION TRENDS

CHAIR: Robert Roth

09:00 **JAKUB WABINSKI** and *Simon Ungar* (Poland, United Kingdom)

Centering the User: Cognition as a Foundation of Map Design

09:15 *Zdeněk Stachoň, Čeněk Šašinka, František Holubec,*
GABRIELA GODIŠKOVÁ and *Ondřej Kvarda* (Czech Republic)

Immersive Cartography for Spatio-Temporal Social Processes: From Design to Evaluation

09:30 **GEORGI ZHELEZOV**, *Yulian Totev* and *Velimira Stoyanova* (Bulgaria)

Spatial Modeling of Present Landscape Diversity of Srebarna Wetland System

09:45 **EVA HAUTHAL** and *Jakob Listabarth* (Germany)

Mobile Map Applications for Elderly People – an Exploratory Approach

10:00 **TEMENOUJKA BANDROVA**, *Lyubka Pashova, Silvia Marinova*
and *Dobromir Philipov* (Bulgaria)

Innovative 3D Relief Mapping for Education: Integrating Photogrammetry and Cartography



COFFEE BREAK 10:15-10:45

SESSION L7: DISASTER RISK REDUCTION - SOLUTIONS AND INNOVATIONS | CARTOGRAPHY AND GI FOR EARLY WARNING AND DISASTER RISK REDUCTION

CHAIR: Petr Kubicek

10:45 **MATEJ VOJTEK**, *Dávid Držík, Gabriela Repaská*
and *Jana Vojteková* (Slovakia)

Fluvial Flood Inundation Prediction Using Random Forest Model Trained on
Hydraulic Flood Maps and High-Resolution Spatial Data

11:00 **ANA MILANOVIĆ PEŠIĆ**, *Dragoljub Štrbac* and *Suzana Lović*
Obradović (Serbia)

Spatiotemporal Distribution and GIS Database Development for Natural
Disasters: the Case of the Šumadija Region, Serbia

11:15 **PAVEL ŠPULÁK** (Czech Republic)

Spatial Data Support of Management of Emergencies Concerning Nuclear
Power Plants

11:30 **LYUBKA PASHOVA**, *Emil Oynakov* and *Radan Ivanov* (Bulgaria)

Development of a Proxy-Based VS30 Model for the Southeastern Sofia Basin –
First Results

11:45 **MILAN KONEČNÝ**, *Richard Simpson, Jie Shen, Temenoujka Bandrova,*
Horst Kremers and *Kate Crawford* (Czech Republic, Australia, China, Bulgaria,
Germany)

Digital Earth as an Integrating Architecture for Early Warning and Disaster Risk
Governance

BREAK 12:00-13:30

June 17 13:30-16:30

LIBRARY HALL

WORKSHOP

MAPPING THE LANDSCAPE OF VIRTUAL REALITY IN DISTANCE EDUCATION

Organized by:

Commission on User Experience

Commission on Cartography in Early Warning and Crisis Management

Commission on Cognitive Issues in Geographic Information Visualization



COFFEE BREAK 15:00-15:30

June 17 16:30-17:30

LIBRARY HALL

JOINT COMMISSION MEETING

ICA COMMISSIONS ON USER EXPERIENCE | CARTOGRAPHY IN EARLY WARNING
AND CRISIS MANAGEMENT | COGNITIVE ISSUES IN GEOGRAPHIC INFORMATION
VISUALIZATION

CHAIRS: Robert Roth | Milan Konečný | Petr Kubiček

June 18 09:00-10:15

LIBRARY HALL

SESSION L8: ADVANCES IN CARTOGRAPHIC VISUALIZATION

CHAIR: José Jesús Reyes Nunez

09:00 *JASMINE DESCLAUX-SALACHAS* (France)

Border, Territory, State, Democracy – Eternal Questions of Representations:
How to Trust Cartography?

09:15 *SABA MODEBADZE*, *Demetre Modebadze*, *Tornike Khachidze*
and *Tom Bodde* (Georgia, Netherlands)

Cartographic Visualizations on Football Jerseys: Design, Visualization,
and Spatial Identity

09:30 *BASHKIM IDRIZI* (North Macedonia)

Topography-to-Projection Optimization of State-Plane Coordinate Systems: A
Case Study from the Republic of Kosova

09:45 *YILEI CHEN*, *Gang Chen*, *Zhihao Li*, *Minyi Liao* and *Mengting Cao* (China)

Retrieval-Enhanced Cross-Period Toponym Linkage and Displacement
Visualization of Urban Center Migration in Northwestern China

10:00 *Shuai Hong*, *Jie Shen*, *ZDENĚK STACHOŇ*, *Tie Liu* and *Xi Chen* (China,
Czech Republic)

User Cognitive Adaptation Simulation of Urban Waterlogging Emergency
Scenes Driven by Journey Maps



COFFEE BREAK 10:15-10:45

SESSION L9: PHOTOGRAMMETRY AND REMOTE SENSING TECHNOLOGIES | UAV APPLICATIONS AND NEW TRENDS

CHAIR: Bashkim Idrizi

10:45 **APOSTOLOS PAPAKONSTANTINOU**, *Anna Atzaraki, Ermioni-Eirini Papadopoulou, Athos Agapiou, Alessandra Capolupo, Eufemia Tarantino, Alberico Sonnesa, Nikos Papadopoulos, Nasos Argyriou, Savvas Varitimidis, Giorgos Tsakiris and Pavlos Sotiropoulos* (Cyprus, Greece, Italy)

Advancing Coastal Monitoring and Mapping Through Integrated Geospatial Technologies: Insights From the COASTLINE Project

11:00 *Nikola Yonov* and **NIKOLAY ATANASOV** (Bulgaria)

Assessing the Capability of Consumer-Grade Drones for Creating a High-Accuracy Map: a Comparative Analysis

11:15 **LULZIM HAJDINI** and *Edon Maliqi* (Kosovo)

GIS and Sentinel Satellite-Based Assessment of Land Use and Land Cover Changes Using Multi-Temporal Data

11:30 **RUMIANA VATSEVA** and *Madlena Tsvetkova* (Bulgaria)

Methodological Perspectives on Crop Rotation Mapping with Copernicus Remote Sensing Data

11:45 *Yana Lipiyska, TSVETELINA ATANASOVA-EVDENOVA* and *Adrian Yordanov* (Bulgaria)

Robust Site-Specific Radiometric Calibration of PlanetScope NDVI Using UAS-Based Reference Data for Precision Agriculture

12:00 **DIANA ISMAILOVA** (Russia)

Use of Unmanned Aerial Systems to Solve the Tasks of the Federal Service for State Registration, Cadastre and Cartography (Rosreestr)

BREAK 12:15-14:00

SESSION L10: WEB CARTOGRAPHY AND DIGITAL ATLASES

CHAIR: Otakar Čerba

14:00 **KAROLINA WERESZCZYŃSKA** (Poland)

Warsaw in the Historical Atlas of Polish Towns Series

14:15 **TEDO GORGODZE**, *Gocha Gudzuadze*, *Tengizi Gordeziani*
and *Sophio Gorgijanidze* (Georgia)

Biographical Atlas – Mapping Our Lives

14:30 **ROBERT E. ROTH**, *Georg Gartner*, *Gareth Baldrice-Franklin*, *Alicia Cowart*, *Lily Houtman*, *Ayako Kagawa*, *Merve Keskin*, *Menno-Jan Kraak*, *N.T. Nawshin*, *Felix Ortog*, *Britta Ricker*, *Sacha Schlumpf* and *Zdeněk Stachoň* (United States, Austria, Lebanon, Netherlands, Czech Republic)

Introducing the Atlas of Sustainability: a Case Study in Actionable Cartography

14:45 **MARTINA MIHAILOVA-HRISTOVA** and *Temenoujka Bandrova* (Bulgaria)

Three-Dimensional Cartographic Modeling for Cultural Heritage Visualization: a Case Study of St. Nedelya Cathedral, Sofia

15:00 **XINFENG HUANG**, *Min Chen*, *Zewen Zhang*, *Linkai Shi* and *Dayu Yu* (China)

EOFuncGraph : On-Demand Workflow for Instantaneous Analysis of Remote Sensing Data via FaaS

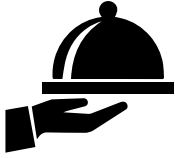
15:15 *Temenoujka Bandrova*, **NIKOLA YONOV** and *Denitsa Savova-Georgieva* (Bulgaria)

Augmented Reality in the School: Enhancing Learning for Children

COMMISSION MEETING ICA COMMISSION ON MAPS AND THE INTERNET

CHAIR: Otakar Čerba

June 18 18:30-23:30



GALA DINNER

Dress code: Smart casual

Location: Mountain House Folklore Complex in Bata Village

Meeting point: Festa Panorama, 18:20

Ticket price: 50€ per person

Bulgarian Countryside Evening – Folklore, Fire and Flavors

Enjoy an unforgettable evening at a traditional folklore complex, featuring authentic Bulgarian cuisine, vibrant folk dances, regional costumes, and insights into Bulgaria's rich cultural heritage. The highlight of the program is the spectacular Nestinari fire-dancing performance on glowing embers.

Transportation: Guided bus transfer from Festa Panorama Hotel and return to Nessebar (departure back at 23:30).

Price: €50 per person

Registration and Payment: On-site at the registration desk, at least 2 days before the event.

June 19 09:00-10:30

LIBRARY HALL

SESSION L11: GIS TECHNOLOGIES AND INTERDISCIPLINARY APPLICATIONS | GIS FOR GEOLOGY, NATURAL SCIENCES, AND ECOSYSTEMS

CHAIR: Krzysztof Pokonieczny

09:00 **AYCA ERASLAN**, *Ahmet Ozgur Dogru* and *Nesibe Necla Ulugtekin* (Turkey)

Towards Standardized Tactile Map Design for the Visually Impaired: A Systematic Review of Cartographic Practices

09:15 **TENGIZI GORDEZIANI**, *Tedo Gorgodze*, *Gocha Gudzuadze*, *Saba Modebadze*, *Mariam Gagoshashvili*, *Gocha Jincharadze* and *Tamar Gordeziani* (Georgia)

Cartographic Generalization and GIS Analysis of the Dynamics of the Natural Environment's States (from a Case Study of Georgia)

09:30 **RUMIANA VATSEVA** and *Kristina Gartsivanova* (Bulgaria)

Mapping Agricultural Landscapes and Water Resources Using Remote Sensing: Methodological Advances and Applications

09:45 *Seçkin Odabaşı* and **İBRAHİM ÖZTUĞ BILDIRICI** (Turkey)

Post-Disaster Analysis of Natural Gas Consumption Using GIS and Machine Learning: a Case Study of Malatya, Türkiye

10:00 *Hristo Nikolov*, **ELITZA UZUNOVA-STOEVA** and *Ivan Stoev* (Bulgaria)

Using Remote Sensing and GIS in Assessing Geological Risk In The Areas of Cultural Heritage Sites- Case Study of Vishegrad Fortress, Eastern Rhodopes, Bulgaria

10:15 **VALENTINA NIKOLOVA**, *Veselina Gospodinova* and *Asparuh Kamburov* (Bulgaria)

Geospatial Technologies for Monitoring and Quantifying Water Erosion



COFFEE BREAK 10:30-11:00

SESSION L12: GIS TECHNOLOGIES AND INTERDISCIPLINARY APPLICATIONS | GIS FOR GEOLOGY, NATURAL SCIENCES, AND ECOSYSTEMS

CHAIR: Rumiana Vatseva

11:00 **MATEJ VOJTEK**, *Jana Vojteková, Gabriela Repaská*
and *Katarína Vilinová* (Slovakia)

Pluvial Flood Inundation Modeling of Extreme Rainfall Using the Rain-On-Grid Method in MIKE+ Hydraulic Model: a Case Study

11:15 **ALBINA MOŚCICKA** (Poland)

Spatial Analysis Applications for Defense Purposes: Case Studies From Student Research

11:30 **MAREK WYSZYŃSKI**, *Wojciech Dawid, Krzysztof Pokonieczny*
and *Michał Lacmański* (Poland)

The Development of AI-Driven Agent to Automate the Analysis of Geospatial Data for Crisis Management

11:45 *Davis Dinkov, Atanas Kitev, Desislava Hristova*
and **LYUBKA PASHOVA** (Bulgaria)

Geospatial Data Collection and Integration for Forest Ecosystem Characterization in Support of Wildfire Analysis

12:00 *Maria Asenova* and **MILENA DANAILOVA** (Bulgaria)

Contemporary Approaches for Landscape Architecture Design – Advantages and Applications

12:15 **SILVIU VASILE BUMBAK** (Romania)

Geostatistical Variables in Carpathian Pastoral Landscapes Shaping the Potentially Hazardous Relationship Between Traditional and Modern Landscape Users in the Context of Mountain Tourism. An Exploratory Case Study From Northern Romania

CLOSING CEREMONY

In your free time...

Ancient Nessebar

Immerse yourself in the rich history of Nessebar by visiting the main sites of the Museum “Ancient Nessebar” – the Archaeological Museum, the Churches of Saint Stephen, Saint Spas, Christ Pantokrator, Saint Paraskeva, and Saint John the Baptist, as well as the Ethnographic Museum.

www.ancient-nessebar.com



TUESDAY, June 16 09:00-13:00

DUŠAN PETROVIČ, *Ivana Gobec* and *Ida Meyer* (Slovenia, Croatia, Norway)

Mapping Indoor Environment

MATEJ BLAZSEK and *Alexandra Benová* (Slovakia)

Content Analysis and Design of World Thematic Maps for School Geographic Atlases with a Focus on Human Geography

BERRICHI FAOUZI, *Chamakhi Djemoui* and *Sekmeche Youcef* (Algeria)

Terrestrial Laser Scanning for Precision Dendrometry of *Pinus Halepensis* in North-Western Algeria

ELIA STOYANOVA and *Viktor Vitov* (Bulgaria)

Geospatial Approaches for Ecologically Sustainable Mining Management in Line with SDGs and ESG Frameworks

STANISŁAW BACIOR and *Bożena Chmielowska* (Poland)

Compliance of Maps and Land and Building Registers with the Actual State, Error Analysis – a Case Study From Poland

Nikol Pendeva, **IVANA GANCHEVA** and *Stefani Suchmalieva* (Bulgaria)

Relief Maps of Bulgaria in Geo-Science Education

WEDNESDAY, June 17 09:00-13:00

CHAOHUI YIN, *Shixing Feng*, *Yanfang Liu* and *Yaolin Liu* (China)

Spatiotemporal Dynamics and Driving Mechanisms of Agricultural Geographical Indications in China

DANIEL SZATMÁRI, *Simon Opravil* and *Tomas Goga* (Slovakia)

Mapping (potential) Illegal Activities in Slovakia Using High-Resolution Earth Observation Data

STANISŁAW BACIOR and *Barbara Prus* (Poland)

Mapping Changes in Forest Land Cover in the Area Affected by Linear Investments in Poland (a case Study)

Julia Szklarzewska and **KRZYSZTOF POKONIECZNY** (Poland)

Perception of Large-Scale Maps in Crisis Management – An Eye-Tracking Study

GACEMI MOHAMED EL AMINE, *Ghabi Mohamed*, *Benshila Naima* and *Otmane Abdelkader* (Algeria)

Cartographic Modeling of *Rugulopteryx Okamurae* Invasion Dynamics Along the Algerian Coast Using Multi-Temporal Satellite Imagery and Machine Learning

LAZAR LYASKOV and *Silvia Marinova* (Bulgaria)

Mapping Public Fountains as Cultural and Natural Resources

THURSDAY, June 18 09:00-13:00

EMILIA TCHERKEZOVA, *Yulian Totev, Kalin Markov, Velimira Stoyanova and Kristina Gartsyanova* (Bulgaria)

Augmented Reality in European Forestry and Related Environmental Research: a Review of Applications, Challenges and Opportunities

STANISLAV VASILEV and *Nikoleta Nikolova* (Bulgaria)

Research the Perception of Legends for Double Articulation Signs

Marzhan Toguzova, Azamat Kapasov, Marzhan Rakhymberdina, ALMAGUL ABDYGALIYEVA, Milan Konecny and Yerkebulan Bekishev (Kazakhstan, Czech Republic)

Multispectral and Lidar Uav-Based Surveying as a Tool for Mineral Exploration Geology

KATARZYNA JOZWIK (Poland)

Geological Maps Favoured by Users

NEZHA FARHI, *Yamina Benkesmia, Moulay Idriss Hassani and Sarah Kreri* (Algeria)

Mapping the Spatio-Temporal Dynamics of Surface Water Extent in the Great Sebkhia of Oran in Northwestern Algeria Using Remote Sensing Techniques

PETJA IVANOVA-RADOVANOVA, *Georgi Belev, Ivan Drenovski, Kalina Tylko, Donka Shopova, Nadezhda Shopova and Kristiyan Panayotov* (Bulgaria)

Spatial Modelling of Drought Processes in the Bulgarian Part of the Dobrudzha Region During the Period 2015–2025

FRIDAY, June 19 09:00-13:00

KHALED SALIM BOUAKKAZ, *Mohamed Amine Hafid, Abdellah Mebrek and Abdellatif Dehni* (Algeria)

3D Modeling and GIS Integration of Borehole Trajectories: Methods and Prototyping for Subsurface Visualization

GHABI MOHAMED, *Gacemi Mohamed El Amine* and *Bentkhici Nedjla* (Algeria)

Climate Change Impacts on Winter Wheat Phenology in Semi-Arid Regions of Algeria (2016–2025) Using Sentinel-2 Time Series

SARAH KRERI, *Yamina Benkesmia* and *Nezha Farhi* (Algeria)

Improving the Accuracy of Wetland Mapping in the Oran Region Using Landsat Data and SVM Classification Enhanced with Additional Variables

HRISTO NIKOLOV (Bulgaria)

Assessing the Contribution of the Precipitation Events to the Geological Hazard in Eastern Rhodopes by Remotely Sensed Data

HADJ SAHRAOUI OMAR, *Lahcen Wahib Kebir* and *Bennia Ahmed* (Algeria)

Optical–SAR and GIS Fusion with Deep Learning for InSAR Coherence Enhancement in Deformation Mapping

GABRIELA GANCHEVA and *Silvia Marinova* (Bulgaria)

Web-Based Cartographic Visualization of Air Pollution