Preliminary schedule of the ISAG2024 symposium Wroclaw University of Science and Technology

9 - 10 May 2024

9 May 2024

Venue: H14

7:30 - 8:30 - Registration

8:30 – 9:30 – Opening ceremony

Keynote speaker 1: Prof. B. Hejmanowska

Keynote speaker 2: Prof. W. Kresse

9:30 – 10:00 – Coffee break

10:00 – 11:30 – Satellite Image Providers Session

11:30 - 13:00 - Lunch and transfer to the conference venue Geocentrum - L2 via Pollink

Venue: Geocentrum L2

13:00 - 14:30 - 1. Parallel sessions

14:30 - 16:00 - Poster session

16:00 - 16:30 - Coffee break

16:30 - 18:00 - 2. Parallel sessions

20:00 - Icebreaking event on the banks of the Odra River

10 May 2024

Venue: Geocentrum L2

09:00 - 10:30 - 3. Parallel sessions

10:30 - 11:00 - Coffee break

11:00 - 12:30 - 4. Parallel sessions

12:30 – 13:30 – Lunch

13:30 - 15:00 - 5. Parallel sessions

15:00 - 15:30 - Coffee break

15:30 - 17:00 - 6. Parallel sessions

17:00 – 17:30 – Conclusion of the symposium; Farewell coffee

Wroclaw, 19/04/2024

ORAL Presentations

Thursday	Session 1.1 – Environmental Monitoring
9 May	Venue: TBA
13:00 -14:30	Chair: TBA
	SELIN UYAR and MUZAFFER CAN IBAN
14547	Exploring the Influence of LST and NDVI on Real Estate Values in Turkish Cities
	Through Regression Analysis
15243	ANITA KUKULSKA-KOZIEŁ, JULIA GORZELANY and TOMASZ NOSZCZYK
15245	Greenery in Times of Crisis: Residents' Travel Preferences
	VIDYA NAHDHIYATUL FIKRIYAH, ROSHANAK DARVISHZADEH, ALICE LABORTE
14923	and ANDREW NELSON
14923	Sentinel-1 Backscatter Analysis of Ratoon Rice Crops: Example from Ratooning
	Practice in the Philippines
	ERDEM COŞKUN, AHMET YIĞIT ARABUL and ABDULLAH POLAT
15356	Calculating the Carbon Footprint of Industrial Induction Motors via Life Cycle
	Analysis
	VIKTORIIA HNATUSHENKO, DMYTRO SOLDATENKO, VOLODYMYR
15193	HNATUSHENKO and CHRISTIAN HEIPKE
	Machine Learning Approaches for Evaluating Forest Fire Impacts on Sentinel-2
	Satellite Imagery across Ukraine
15194	MYKHAILO LOHACHOV, KAZUO OKI and NOBUYUKI UTSUMI
13134	Residual Attention Downscaling Model on the Japanese 55-year Reforecast for
	Hydrological Applications

Thursday	Session 1.2 – Photogrammetry and Remote Sensing
9 May	Venue: TBA
13:00 -14:30	Chair: TBA
	RAYAN NAS, ANIL OLGAÇ, and İDİL PORA ÖLMEZ
15191	Flood Dynamics Evaluation Using Sentinel-1 SAR Intensity and Coherence for
	Mapping Extent and Depth Estimation
15200	SAYED ISHAQ DELIRY and UĞUR AVDAN
15200	Advances in Engineering Surveying: A Comprehensive Accuracy Assessment of
	UAS Photogrammetry and Structure from Motion
	MINGXUE ZHENG, JINPING YU, MEIHUA XING and WENJING YANG
15210	Farmland Boundary Extraction Based on Improved Mean Shift From UAV Remote
	Sensing Images
15228	HARALD ZANDLER, WOLFGANG SULZER and VIKTOR KAUFMANN
15226	Delineation of Debris-covered Glaciers with Multi-temporal UAV Images
	(Gössnitzkees glacier, Schober Group /Austria)
	MIROSLAV KARDOš, ŁUKASZ BOROWSKI, JULIÁN TOMAŠTÍK, KAMIL MACIUK,
15238	MICHAL FERENČÍK, IZABELA BASISTA and IVAN SAČKOV
	Accuracy of Forest Road Digital Terrain Models Captured using Airborne and
	Mobile Light Detection and Ranging Technology and Photogrammetry

Thursday	Session 1.3 – Engineering Surveying, BIM and GIS
9 May	Venue: TBA
13:00 -14:30	Chair: TBA

14879	KATARZYNA CEGIELSKA, ANITA KUKULSKA-KOZIEŁ, JÓZEF HERNIK, TOMASZ
	SALATA and KAROL KRÓL
14673	Peri-urban Areas – How to Measure the Balance between Anthropogenic Pressure
	and Ecological Relevance with GIS tools?
	ALEXANDER BONG, ENRICO ROMANSCHEK and CHRISTIAN CLEMEN
14886	Low-distortion-projections (LDP) for Point Clouds in BIM Projects – A Practical
	Demo
14893	CHRISTOPH FREY, ALEXANDER BONG and CHRISTIAN CLEMEN
14893	Variants for Demand-oriented CityGML-2-IFC ETL Processes with FME
15209	BOITUMELO SELAMOLELA
	Modelling Malaria Suitability: A case study of Chiredzi District in Zimbabwe
15269	TOSHIHIRO OSARAGI and AKIRA MESAKI
	Robust Neighborhood Solutions for Facility Location Problems with Uncertainty

Thursday	Session 2.1 – Environmental Monitoring
9 May	Venue: TBA
16:30 –18:15	Chair: TBA
45200	BOHDAN YAILYMOV, HANNA, NATALIIA KUSSUL and ANDRII SHELESTOV
15208	European-Wide High-Fidelity Forest Type Maps
15221	WOLFGANG SULZER and MANUEL KOEBERL
15221	Remote sensing-based Analyses of multi-temporal and multi-seasonal changes of
	Land Surface Temperatures in the Greater Graz area from 1985 to 2021
15224	ALESSANDRA CAPOLUPO, MARCO LONERO and EUFEMIA TARANTINO
15224	Beach Macroplastic Debris Detection From High-Resolution RPAS Images
	HILAL SEDEF ÖZKANOĞLU, FATMA KESKIN ARABUL and EMIN TARIK KARTAL
15360	The Changing Landscape of the Automotive Industry: Impacts on Vehicle Wiring
	Harnesses
15245	MILEN CAHNEV, Lachezar Filchev, Ilina Kamenova and Nevena Miteva
	Study the Applicability of Sentinel-2 Optical Data, as well as Benefits from the
	Sentinel-1 SAR Data, for Predicting Yields of Organic Barley
	SOUAD GHOUZLANE and OKAN FISTIKOĞLU
15229	An Integrative Approach to Wildfire Risk Assessment: Combining the Canadian
	FWI System with MCDA-AHP

Thursday	Session 2.2 – Photogrammetry and Remote Sensing
9 May	Venue: TBA
16:30 –18:15	Chair: TBA
	STYLIANOS MANOUDAKIS, VASILIOS SKEVAKIS and PANAGIOTIS DEDOUSIS
15277	Remote Sensing-Based Identification Of Tree Species In Degraded Forest Areas: A
	Methodology For Targeted Restoration In The Attica Region, Greece
15287	GOKTUG YASAR CUKURLU, NUSRET DEMIR and POL KOLOKOUSSIS
	Determination Of Forest Fire Damage Through Coherence Values Derived From
	Insar Data
15316	JAVAD HASHEMPOUR, SOHAIB ABUJAYYAB and SABRA ALSHUKAIRI
	Evaluating an Image Processing Algorithm for Measuring Flame Extension Angle of
	Wind-Aided Spreading Dowel Fire
15288	GSPURNING JOSEF

	Designing low-cost Virtual Reality walk throughs for Cultural Heritage
	Management
	HIPPOCRATES MANOUDAKIS and MARIA BAKATSAKI
15290	Spatial Realities: Bridging Digital Heritage, Geoinformatics, and Sustainable
	Development

Thursday	Session 2.3 – Engineering Surveying, BIM and GIS
•	Venue: TBA
9 May	1011831 1211
16:30 –18:15	Chair: TBA
	Felix GRUNER, ENRICO ROMANSCHEK and CHRISTIAN CLEMEN
14894	Green3DScan – an Open Source Tool to Create and Use Adaptive Point Cloud
	Segments BIM Projects
	ADAM SENETRA, MARTA CZAPLICKA, ANNA ŹRÓBEK-SOKOLNIK and PIOTR
45202	DYNOWSKI
15203	Possibilities of Developing Maps of Sight-Aesthetic Attractiveness of Underwater
	Landscapes of Lakes Using the Point-Valuation Method and Spatial Interpolation
	Methods
	SEBASTIAN SCHILLING, ENRICO ROMANSCHEK and CHRISTIAN CLEMEN
14895	Just another CAD to BIM Process? First Experimental Results with Semantic
	Graphs and 2D-space Partitioning
45222	RENATA RÓŻYCKA-CZAS, BARBARA CZESAK, MARIA PAZDAN and TOMASZ
15222	SALATA
	Temporal Changes in Building Concentration – an Attempt to Measure Sprawl
15359	ZERAFIL ZAFER GÜLDAL, EMIN TARIK KARTAL and FATMA KESKIN ARABUL
	Investigation of the Impact of Slot Geometry on Brushless DC Motors
15232	iskren ivanov and Lachezar filchev
15252	Past, Contemporary and Future Lunar Referent Coordinate System and Digital
	Elevation Models

FRIDAY

Friday	Session 3.1 – Environmental Monitoring
10 May	Venue: TBA
9:00 -10:30	Chair: TBA
45247	PAVLO HENITSOI and ANDRII SHELESTOV
15247	Transfer Learning Model for Chlorophyll-a Estimation Using Satellite Imagery
	ZLATOMIR DIMITROV
15254	Multi-frequency SAR Utilization in Mountainous Regions in Bulgaria for Forest
	Boundaries Determination with Impact of Seasonality
	NIKOLAOS SIFAKIS, GEORGE TSINARAKIS, MARIA ARYBLIA and GEORGE
15275	ARAMPATZIS
15275	Empowering Sustainable Manufacturing with the Process Simulation Modelling: A
	Leap Towards Circular Economy Integration
15279	MARIA ARYBLIA, NIKOLAOS SARANTINOUDIS, NIKOLAOS SIFAKIS, GEORGE
	TSINARAKIS and GEORGE ARAMPATZIS
	Enhancing Manufacturing Sustainability through Integrated Digital Product
	Passports and the Sustainability Balanced Scorecard

15280	NIKOLAOS SIFAKIS, ELEFTHERIOS FAKOTAKIS, ATHANASIOS, SERAFEIM
	MOUSTAKIDIS and GEORGE ARAMPATZIS
	Advancing Livestock Management through ICT: Insights from the Chameleon
	Project in Greece

Friday	Session 3.2 – Photogrammetry and Remote Sensing
10 May	Venue: TBA
9:00 -10:30	Chair: TBA
	ANGELOS ANTONOPOULOS, GEORGIOS PETRAKIS, STATHIS BIKOS, LEONIDAS
	SPANDAGOS, GIANNIS ZERVOS, GEORGIOS STAVGIANNOUDAKIS, CHRYSSIDA
15325	MANOUDAKI and PANAGIOTIS PARTSINEVELOS
	AIR2SEA, A Synergy of Unmaned Aerial and Sea Surface Systems for Search and
	Rescue
	KLAUDIA BIELINSKA
15328	UP42 Platform – the Comprehensive Solution that Facilitates Access to Different
	Geospatial Data for Scientific and Commercial Projects
	SALIH BOZKURT, ZAIDE DURAN and DURSUN ZAFER ŞEKER
15264	Automatization of 3D Point Cloud Semantic Segmentation Using PointNet++
	Algorithm
	MERTCAN NAZAR and UMUT GUNES SEFERCIK
15311	Comparative Accuracy Analysis of Algorithms Used in Automatic Detection of
	Power Lines from LiDAR Data
	ISMAIL COLKESEN, UMUT GÜNEŞ SEFERCIK, NIZAMETTIN OZDOGAN, TASKIN
	KAVZOGLU, MUHAMMED YUSUF OZTURK, OSMAN YAVUZ ALTUNTAS, MERTCAN
15312	NAZAR, ILYAS AYDIN and HASAN TONBUL
	An Assessment of the Potential Use of Sentinel-2 Imagery and Water Indices in
	Monitoring Water Quality: A Case Study of Sakarya River
	HIPPOCRATES MANOUDAKIS and MARIA BAKATSAKI
15290	Spatial Realities: Bridging Digital Heritage, Geoinformatics, and Sustainable
	Development

Friday	Session 3.3 – Engineering Surveying, BIM and GIS
10 May	Venue: TBA
9:00 -10:30	Chair: TBA
15234	DAWID KUDAS and AGNIESZKA WNĘK
15254	The Impact of Hexagonal Grid Size on The Uncertainty of Spatial Entropy Mapping
	INESE VARNA, INGUS MITROFANOVS, ANSIS ZARINS and AUGUSTS RUBANS
15293	Study of Impact of Anomalous Refraction on Digital Zenith Camera Measurements
	by using Meteorological Data
15294	ECE ORTAK and AHMET ÖZGÜR DOĞRU
	GIS Based Decision Support Tool for Assisting Parcel Locker Field Operations
15310	ESRA GIZEM UĞUR, ZAIDE DURAN and DURSUN ZAFER ŞEKER
	Evaluating Integration and Accessibility Along the M7 Yıldız-Mahmutbey Metro
	Line in Istanbul, Türkiye
15318	ARTUR KRAWCZYK
13310	The Role of Terminological Postulates at the Core of Geoinformatics Definition

Friday	Session 4.1 – Environmental Monitoring
10 May	Venue: TBA
11:00 -12:30	Chair: TBA
15286	NURTEN VARDAR, BULENT BAYRAM, BEKIR SENER, TOLGA BAKIRMAN, YASEMIN A. ÖZDEN, ISKENDER DEMIR and SERTAÇ OGDUM A Navad Autonomous Sustant for Durantia Manifestina of Manies Ballutian
	A Novel Autonomous System for Dynamic Monitoring of Marine Pollution
	EFTHALIA KARKOU, SAVVAKIS NIKOLAOS and GEORGE ARAMPATZIS
15297	Digital Intelligent Services in Industrial Wastewater Treatment to Mitigate Climate
	Change
	GETACHEW BAYABLE
15302	Estimating Water Hyacinth Biomass and its Impact on Water Quality in Lake Tana,
	Ethiopia, using Geospatial Technology
	NIK AFIQAH N AHMAD YANI, NURUL AIN MOHD ZAKI, SHUKOR SANIM MOHD
15220	FAUZI and MOHAMMAD HAFIZ ISMAIL
15320	Exploring the Dynamics Interplay of Growth Parameters and Physiological Traits in
	Harumanis Mango Trees (<i>Mangifera indica</i>) Across Growth Stages
15322	AJANTA GOSWAMI
	Recreating three major Glacial & Landslide Lake Outburst flood (GLOF & LLOF)
	events in Indian Himalaya and comparing its causes and consequences to century
	old LLOF of Gohna Lake using earth observation techniques

Friday	Session 4.2 – Artificial Inteligence
10 May	Venue: TBA
13:30 -15:00	Chair: TBA
	MOHAMED RABII SIMOU, SAFIA LOULAD, ZINEB EL FARAJ, MOHAMED
15198	BENAYAD, MEHDI MAANAN and HASSAN RHINANE
15196	From Classical Analysis to AI: Tracing Methodological Evolution in Spatial Rural-
	Urban Transformation Studies
	NATALIIA KUSSUL, VOLODYMYR KUZIN, YEVHENII SALII, BOHDAN YAILYMOV and
15252	ANDRII SHELESTOV
	Transfer Learning Models for Oil Spills Detection Based on Satellite Data
	YOUSSEF LEBRINI and ALICIA AYERDI GOTOR
15255	Investigating the Use of Artificial Intelligence and Data from UAV for Wheat Crop
	Height and Yield Estimation
	OLEKSANDR PARKHOMCHUK, ANDRII SHELESTOV and SOFIIA DROZD
15260	Symbiotic Artificial Intelligence and Satellite Imagery for Rapid Assessment of
	War-Induced Agricultural Damage in Ukraine
15348	BAHADIR KULAVUZ, TOLGA BAKIRMAN, NURTEN VARDAR, BÜLENT BAYRAM,
	MESUT KOROGLU and NESLIHAN GENC
	Deep Learning Based Marine Debris Segmentation from Sentinel-2 Imageries

Friday	Session 4.3 – Land Management and Cadaster
10 May	Venue: TBA
13:30 -15:00	Chair: TBA
15326	PANAGIOTIS PARTSINEVELOS, GEORGIOS PETRAKIS, KYRANNA DEMIRTZOGLOU,
	IFIGENEIA BRESSA, ELENI CHARALAMPOPOULOU, ACHILLEAS TRIPOLITSIOTIS and
	CHRISTINA BREMPOU
	Towards Formalization of Thematic Tactile Mapping Representation
15308	MUHAMMET FATIH GÖKDAĞ

	Evaluation of Semi-Automated Parcel Boundary Extraction in terms of countries
	whose Cadastre has been completed: Türkiye Example
	MUHAMMET FATIH GÖKDAĞ, SÜMEYYE EBRAHIMI, ZEYNEP BAYRAMOGLU and
15291	MUSTAFA ASLAN
	The Importance of MEGSIS in Turkish Cadastre in Terms of Sustainable Land
	Administration and e-cadastre
15282	AHMET EMIR YAKUP and ISMAIL ERCÜMENT AYAZLI
	A Novel Vector Cellular Automata Model for Modelling Urban Growth: Preliminary
	Findings
15268	SÜMEYYE EBRAHIMI
	Evaluation of Dynamic Cadastre Approach: Chrischurch/New Zealand Case

Friday	Session 5.1 – Environmental Monitoring
10 May	Venue: TBA
13:30 -15:00	Chair: TBA
15174	MINGXUE ZHENG, JINPING YU, MEIHUA XING and WENJING YANG
15174	Farmland Boundary Extraction in Plain Based on Contour Hierarchical Detection
	MONCEF BOUAZIZ, HASKE BENJAMIN, AL HEIB MARWAN and BENNDORF JOERG
15190	Geographic Information System-Driven Decision Support System for Assessing
	Multiple Hazards in Post-Mining
	SAYED ISHAQ DELIRY and UĞUR AVDAN
15199	Assessment of River Basin Water Budget Estimation Using Remote Sensing
	Observations and GIS Techniques
15201	GÜRCAN BÜYÜKSALIH, CEM GAZIOĞLU and KARSTEN JACOBSEN
13201	Geometric Analysis of WorldView-2 Geo-referenced Image Containing Mostly Sea
15225	TOMASZ SALATA
	The Role of Training Data in Identifying Land Cover Classes from Sentinel-2
	Satellite Imagery

Friday	Session 5.2 – Artificial Inteligence
10 May	Venue: TBA
13:30 -15:00	Chair: TBA
	SOFIIA DROZD and NATALIIA KUSSUL
15197	Forecasting of Solar Power Plant's Capacity Utilization Factor in Ukraine using
	Satellite Data and Random Forest Regression
	AHMET ÖZGÜR DOĞRU
15330	Mapping the Future: The Integration of Artificial Intelligence in Cartography and
	Map Design
	ELIF ÖZLEM YILMAZ, YAKUP KAAN UZUN, EMRE BERKAN and TASKIN KAVZOGLU
15313	Enhanced Comparative Analysis: LIME Integration with Multiresolution
13313	Segmentation (MRS) and Simple Linear Iterative Clustering (SLIC) Algorithms for
	Support Vector Machine (SVM) Classification in Sentinel-2 Imagery
	MOHAMMAD ASEF MOBARIZ and GORDANA KAPLAN
15295	Assessment of Urban Growth and Land Cover Changes in Kandahar City Using
15295	Remote Sensing and Machine Learning Techniques: A Case Study from 2000 to
	2020
15214	BOHDAN POTUZHNYI, VLADA SVIRSH and NATALIIA KUSSUL
13214	Graph-Based Modeling of Village Infrastructure Development

Friday	Session 5.3 – Management and RS/GIS
10 May	Venue: TBA
13:30 -15:00	Chair: TBA
45225	VLADA SVIRSH, BOHDAN POTUZHNYI and NATALIIA KUSSUL
15235	Integrated Geospatial Analysis for Rural Development Metrics
	SÜMEYYE EBRAHIMI, MUSTAFA ASLAN and ISMAIL DURSUN
15211	The Role of the Land Registry and Cadastre Administration in Disasters: Evaluation
	of the Effects of Earthquakes on Property
	MOHAMED BENAYAD, MOHAMED RABII SIMOU and HASSAN RHINANE
15218	Optimization of the Location of Charging Stations for Electric Vehicles in Morocco:
	Challenges and Opportunities
	FÜSUN BALIK ŞANLI, OMER GOKBERK NARIN and SAYGIN ABDIKAN
15342	Comparative Evaluation of the Consistency of Sentinel-2 Water Indices for
	Akyatan Lagoon
15283	PAWEŁ BURDZIAKOWSKI, JŪRATĖ SUŽIEDELYTĖ-VISOCKIENĖ, KATARZYNA
	BOBKOWSKA and PAWEŁ TYSIĄC
	3D Gaussian Splatting for UAV Night Photogrammetry

Friday	Session 6.1 – Environmental Monitoring
10 May	Venue: TBA
15:30 –17:15	Chair: TBA
	VIKTOR PUTRENKO
15327	Integrated Geoinformation Modelling to Support Community Adaptation to
	Climate Change
	IBRAHIM ADENIRAN and Man-sing Charles WONG
15220	An Improved Machine Learning Model for Predicting Diurnal and Spatially
15329	Continuous Near Surface Air Temperature from Optimised Land Surface
	Temperature Data: Case Study of Hong Kong
15250	DENIZ BITEK, FÜSUN BALIK ŞANLI and RAMAZAN CUNEYT ERENOGLU
15350	Forest Fire Analysis with Landsat Satellite Images: 2023 Gökçeada Forest Fire
15366	ANNA SZOSTAK-CHRZANOWSKI
	Influence of Climat Change on Deformations of Earth Dams
15106	ELLEMIEKE VAN KINTS, NANCY O HARE and DEEPAK MISHRA
15196	Neural Radiance Field Methods for Satellite Imagery of Polar and Arid Climates

Friday	Session 6.2 – Articicial Intelligence
10 May	Venue: TBA
15:30 -17:00	Chair: TBA
	HAKIMA ZAIR, SAFIA LOULAD, HOUSSINE BOUTAROUINE, SAMIR ZOUHRI and
15272	HASSAN RHINANE
	Semantic Segmentation using Segformer for Precise Building Damage
	Identification: A Study of the Marrakech Earthquake
15276	STYLIANOS MANOUDAKIS, VASILIOS SKEVAKIS, PANAGIOTIS DEDOUSIS and
	GEORGE ARAMPATZIS
	Utilizing Remote Sensing and Artificial Intelligence for Effective Monitoring of
	Deforestation: A Case Study in the Attica Region, Greece

15278	STYLIANOS MANOUDAKIS, CHARITON KALAITZIDIS, ANASTASIA PHILLIS and GEORGE ARAMPATZIS
	Predicting Post-wildfire Soil Characteristics Using Remote Sensing and AI: A Case
	Study in Central Greece
15301	LAAZIZA HAMMOUMI, CHAYMAE KHALOUA, DOUNIA DAKIR, HASSAN RHINANE
	and MEHDI MAANAN
	Machine Learning for Urban Traffic Prediction : Towards Intelligent Urban
	Planning. Case Study: Casablanca
15315	TASKIN KAVZOGLU, EMRE BERKAN, YAKUP KAAN UZUN and ELIF ÖZLEM YILMAZ
	Global-Scale Explainable AI Assessment of Classification Algorithm Effectiveness in
	Object-Based Image Analysis using Random Forest and Support Vector Machine

Friday	Session 6.3 – Engineering Surveying, BIM and GIS
10 May	Venue: TBA
15:30 -17:00	Chair: TBA
15365	BURAK AKPINAR, CÜNEYT AYDIN, NEDIM ONUR AYKUT, SEDA ÖZARPACI, GÜLDANE OKU TOPAL, ÖZGE GÜNEŞ and MUSTAFA FAHRI KARABULUT
	Low-Cost GNSS Measurement System for Geodetic Applications
	PINAR EKSERT and JAN BLACHOWSKI
15362	WebGIS Map of Landform Transformations in a Lignite Post-mining Area. Case
	Study of the Babina Mine (Poland)
	CÜNEYT AYDIN, ÖZGE GÜNEŞ and BEYZA GÜNEY
15335	Regression Approach to transform GRACE Mascon TWS-L3 data into groundwater-
	induced displacements in the Türkiye Region
	NUSRET DEMIR, DILARA SOLMAZ and UFUK YAZGAN
15296	Analysis of Surface Displacements and VS30 Models of Kartal-Istanbul and Antalya
	City
	JING LI, JÖRG BENNDORF and PAWEŁ TRYBAŁA
15205	Quantitative Analysis of Different SLAM Algorithms for Geomonitoring in an
	Underground Test Field

POSTER Presentations

Thursday	Venue: TBA
9 May	Chair: TBA
14:30 –16:00	
15195	BELHOUARI FATIMA ZOHRA
	The Problem of Overlapping Cadastral Boundaries Cases and Proposed Solutions
	AUDREY MERCIER, SUSANNA KARLQVIST, AARNE HOVI and MIINA RAUTIAINEN
15220	Boreal Forest Diversity Through In Situ and Laboratory Spectral Measurements of
	Understory Elements
	MOHAMED ABDELHAMID, GRZEGORZ OLEJARZ, ŁUKASZ BOROWSKI, PAWEŁ
15215	POSTEK and KAMIL MACIUK
13213	Changes in the Coordinate Time Series Based on PPP Solutions Using Innovative
	Polygon Trend Analysis
	GRZEGORZ OLEJARZ, MOHAMED ABDELHAMID, AGATA BEM and KAMIL MACIUK
15216	Dependence of Seasonal Phenomena in Coordinate Time Series on GNSS Antenna
	Mounting Height
15223	BARBARA CZESAK and RENATA RÓŻYCKA-CZAS

	Evolving Rural Landscapes: Land Abandonment and Urban Sprawl
15231	MARTA WLODARCZYK-SIELICKA Design of a Coastal Zone Monitoring System Using an Unmanned Vessel
	Design of a Coastal Zone Monitoring System Using an Unmanned Vessel
15233	ISKREN IVANOV and LACHEZER FILCHEV Comparabological Structural Mapping of Daydon Crater on the Moon Using Mapping
	Geomorphological Structural Mapping of Dryden Crater on the Moon Using Mappy
	Tool Plugin in QGIS Software
15237 15202	REZWAN AHMED and KATJA TRACHTE
	Detection of Land Use and Land Cover Changes in Cottbus City and Spree-Neisse
	District, Germany in the Last Three Decades Using Machine Learning Approaches
	ANDREA CARBONE, DARIO SPILLER and GIOVANNI LANEVE
	Fuel Type Mapping in Sardegna via Convolutional Neural Network and PRISMA
	Imagery
15253	MARIA PAZDAN, BARBARA CZESAK and JÓZEF HERNIK
	Weight of Evidence Exploration of the Built-up Area Changes in the Rural Setting
15263	ANETA STRZALKA
	Development of GIS-Based Methods for Generating and Dimensioning of District
	Heating Networks on a Communal Level
15284	PAULINA LEWINSKA, RAFAŁ MATUŁA, PAWEŁ POSTEK, KAMIL MACIUK and
	ŁUKASZ BOROWSKI
	Ground-based Remote Sensing in Earthquake Monitoring
15298	AGNIESZKA WNĘK and DAWID KUDAS
	The Impact of the CEEMD Method Boundary Errors on the Estimation of Oscillation
	Periods Detected in GNSS Time Series
15303 15306	ZULKIFLEE ABD LATIF, NURUL AIN MOHD ZAKI, MOHD NAZIP SURATMAN,
	NAFISAH KHALID and HAMDAN OMAR
	Tree Crown Segmentation using Hyperspectral and LiDAR for Tropical Forest
	KATARZYNA BOBKOWSKA, PAWEŁ TYSIĄC, PAWEŁ BURDZIAKOWSKI and JAKUB
	SZULWIC
	Monitoring Artificial Light Pollution Using a Multispectral Camera
15319	NORMAISURAH SAMSUDDIN
	Quantification of Heat Vulnerabilty Index (HVI) via Principal Component Analysis
	(PCA) and Equal Weighted Index (EWI)
15321	ASHOK ANAND
	Cartography of the Chamoli-Kshetrapal Landslide Vulnerability Using TLS, UAV, and
	a Machine Learning Algorithm
15323	ASHOK ANAND and ALOK BHARDWAJ
	Data Fusion and Accurate Evaluation of Topographic Information Utilising UAV and
15324	TLS Surveys of Kshetrapal Landslide, Chamoli, Uttarakhand
	MOHAMMAD DOWAJY, MOHAMED FAWZY, ÁRPÁD BARSI and TAMÁS LOVAS
	Automatic Non-Urban Road Surface Point Extraction Based on Geometric Features
15334	Using Neural Networks and Raster Structure Approach
	ILINA KAMENOVA
	Potential of Hyperspectral Vegetation Indices for Assessing Nitrogen Content in
	Potato, Maize, and Grassland
15336	ILINA KAMENOVA
	Comparison of Hyperspectral and Broad-Band Vegetation Indices for Estimation of
	Nitrogen Content in Grasslands
15244	MILEN CAHNEV and ZLATOMIR DIMITROV
	Study the Applicability of Sentinel-2 Optical Data, as Well as Benefits from the
	Sentinel-1 Sar Data for Predicting Yields of Organic Barley