



4th Intercontinental Geoinformation Days (IGD) 2022

20-21 June 2022

09:00 – 18:00 (GMT+ 4:30)

University of Tabriz, Iran

Conference Program

Day 1 (20 June 2022)		
Time	Opening Speeches	
09:00-09:30	<ul style="list-style-type: none"> • Prof.Dr. Safar Nasrollahzadeh • Assoc.Prof.Dr. Jalal Shiri • Prof.Dr. Murat Yakar • Prof.Dr. Behrouz Sarisarraf • Assoc.Prof.Dr. Khalil Valizadeh Kamran • Assoc.Prof.Dr. Bakhtiyar Feizizadeh 	
09:30-11:30	Keynote Lectures	
	Presenter	Title
09:35-09:55	Prof.Dr. Jozef Strobel	Spatial Data Infrastructures to Geospatial Ecosystems
09:55-10:15	Prof.Dr. Ayyoob Sharifi	Integrated approaches for climate change adaptation and mitigation in cities
10:15-10:35	Prof.Dr. Chryssy Potsiou	Building Back Better Self-made Cities in the Post Covid 19 Era
10:35-10:55	Prof.Dr. Abbas Rajabifard	Digital Transformation-the role of Land Information and Location Intelligence in Sustainability and Resilience
10:55-11:15	Prof.Dr. Saied Homani	Paradigm Shift in Satellite Earth Observation Analytics; from Desktop to Cloud
11:15-11:35	Prof.Dr. Aliakbar Rasuly Pirouzian	Smart Environment Monitoring Systems: Operating Real-Time Sensors
11:35-12:00	Break	



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Day 1 (20 June 2022)	
Session 1 (Photogrammetry & Remote Sensing)	
Moderator: Prof.Dr. Seyed Ali Almodaresi	
Time	Presentations
12:00-13:30	Spatiotemporal assessment of suspended sediment concentration and salinity in Lake Urmia using satellite imagery and remote sensing Mehran Dadashzadeh, Alireza Mojtahedi, Javad Parsa
	Evaluation of structural elements in the collision zone by remote sensing method Cihan Yalçın
	Introducing a new approach to temperature validation of remote sensing thermal images Hassan Emami, Arash Rahmanizadeh
	Use of Unmanned Aerial Vehicles in Open Mine Sites Gulsum YUKSEL, Ali ULVI
	An assessment of support vector machines for crown delineation of pine single trees on unmanned aerial vehicle imagery Ali Hosingholizade, Yousef Erfanifard, Seyed Kazem Alavipanah, Hooman Latifi, Yaser Jouybari-Moghaddam
	Investigation The Effect of UAV Flight Altitude in Map Production Mustafa Demirel, Yunus Kaya, Nizar Polat
	Comparison Between Multicopter Uav and Total Station for Volume Calculation Mustafa Ozkan, Nizar Polat
	Comparison Of the Effect of Different Vegetation Indices on Land Surface Temperture Values Gulshan Mammadli, Filiz Bektas Balcık
	Evaluation of urban heat island based on the land surface temperature and spatial variables in Tabriz Iraj Teymouri, Mohammad Nemati
	Exploring the Spatial distribution and intensity of Urban Heat Islands (UHI) in Ardabil city Iraj Teymouri
	Determination of burned areas using Sentinel-2A imagery and machine learning classification algorithms Ceydanur Arıkan, İlay Nur Tümer, Samet Aksoy, Elif Sertel
Determination of first take-off points for UAVs in case of a disaster Ridvan Ertuğrul YILDIRIM, Aziz ŞİŞMAN	
13:30-14:30	Lunch Break



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Day 1 (20 June 2022)	
Session 2 (Geographic Information Systems)	
Moderator: Assoc.Dr. Ali Shamsoddini	
Time	Presentations
14:30-16:00	Modeling of groundwater quality based on Water Quality Index using M5P decision tree method Shokouh Mohsenzadeh, Sahar Javidan, Mohammad Taghi Sattari
	Developing a participatory WebGIS for monitoring the physical problems of rural settlements Fatemeh Sadate Hosseini, Mohammadreza Jelokhani-Niaraki, Hasanali Faraji-Sabokbar
	Evaluation of factors affecting spatial differences Housing prices (Case study: Bojnourd city) Masuoeh dashtbin, Mohammad Ghasemi Khozani
	Estimation of Mordagh Chay River water quality using gaussian process regression method Kambiz Falsafian
	Modeling of access and spatial mobility changes associated with floods in the field of transportation and movement of vehicles in areas 3, 6 and 7 of Tehran Abolfazl Ghanbari, Vahid Isazade, Esmail Isazade, Keyvan Seraj
	Geostatistical-based mapping of topsoil texture in Fluvisols and Vertisols around Lake of Manyas Fuat KAYA, Onur MEŞE, Levent BAŞAYIĞIT
	Predicting the monthly flow of the Kaleybar Chay River based on M5 model tree Kambiz Falsafian
	Classification of surface water quality using data-driven methods Sahar Javidan, Shokouh Mohsenzadeh, Mohammad Taghi Sattari
	Exploring maps from childhood to adulthood: a journey to basic map knowledge with field experts Nuri Erdem
	The Analysis of 3D Geometric Features on Point Clouds by using Open-Source Software Ramazan Alper KUÇAK
	Second Order Control Extension in Millennium City, Chikun Local Government Area, Kaduna State, Nigeria Adamu Bala, Shola Daniels Oyekunle, Nasiru Danlami
16:00-16:30	Break



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Day 1 (20 June 2022)	
Session 3 (Photogrammetry & Remote Sensing) Moderator: Assoc.Dr. Ara Toomanian	
Time	Presentations
16:30-18:00	Analysis of a strong thunderstorm process observed in the eastern part of the Republic of Azerbaijan on June 1, 2017 Said Safarov, Elnur Safarov, Yegana Bayramova
	Determining Infestation of Pine Processionary Moth using Remote Sensing Gonca Ece ÖZCAN, Fatih SİVRİKAYA
	Crop mapping using Sentinel-1 and Sentinel-2 images and random forest algorithm Ali Shamsoddini, Bahar Asadi
	Pre and post effects of marine ranch construction in chlorophyll-a concentration using MODIS data and a web-based tool. A case study in Zhelin Bay, China Ritika Prasai
	View Angle Importance of SAR Satellite Imageries for Mapping Areas Susceptible to Floods: A Case Study of Kumamoto Prefecture, Japan Ayub Mohammadi, Himan Shahabi
	A review of Mud volcanoes situation in Caspian seaboard and new methods of their identification by remote sensing techniques Babak Kheradmand
	Analysis of heat island formation in land use of Ardabil city using thermal remote sensing imagers Hossein Fekrat, Sayyad Asghari Saraskanrood, Seyed Kazem Alavipanah
	Modeling of Land Subsidence in Shabestar Plain and its Relation to Groundwater by Radar Interferometry Naghmeh Mousakhani, Khalil Valizadeh Kamran
	Geometric shape fitting on simulated and TLS-based learning tree-trunk point cloud for precision forestry measurements Mustafa Zeybek
	Automated building extraction from very high-resolution remote sensing data with deep learning approaches Volkan Dağdelen, Ugur Alganci, Elif Sertel
	Comparison of open-source and commercial software for 3 modeling with terrestrial photogrammetry Muhammed Enes Atik, Zaide Duran
Air Pollution Analysis in Istanbul Between January 2019 and April 2022 through Remote Sensing Technology HamedReza Vafa, Ahmet Ozgur Dogru , Dursun Zafer Seker	



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Day 2 (21 June 2022)	
Session 1 (Land Administration, Cadaster and Land Use)	
Moderator: Dr. Behnam Khorrami	
Time	Presentations
09:00-10:30	Land Use Change Forest Scenarios on the Horizon 2025 Maryam Sadegih, Khalil Valizadeh Kamran, Sayed Asadollah Hejazi
	Impact of Climatic Change on the Irrigated Agriculture – Case Study: Seyhan River Basin Bulent Ozekici, Burcak Kapur
	Evaluation of land consolidation impact criteria for rural development Halil Burak AKDENİZ, Tayfun Çay , Şaban İNAM
	Challenges of Integrating Cadastral Map and Urban Data Infrastructure in Iran Alireza Hajiheidari, Mahmoud Reza Delavar, Abbas Rajabifard
	Mapping Urban Land Use and Land Cover Variations Based on Support Vector Machine Algorithm: A Case Study of Sowme'eh Sara County Khalil Valizadeh Kamran, Behnam Khorrami, Hadi Beygi Heidarlou , Asma Karamat Mirshekarlou
	Optimal weighting approach for real-time positioning with Android smartphones Berkay Bahadur
	land-use change on Peri-Urban: The Role of Rural-Urban Centralized and segregated Planning strategy Naser Shafieisabet, Sogand Khaksar
	Ecological-geomorphological analysis of surface processes in the Kura-Araz lowland and adjacent territories on the base of remote sensing data Gasimov Jeyhun Yashar
	Land cover classification in an arid landscape of Iran using Landsat 8 OLI science products: Performance assessment of machine learning algorithms Ali KESHAVARZI, Fuat KAYA, Gordana KAPLAN, Levent BAŞAYIĞIT
	Estimation of land use and land cover changes in Konya Closed Basin Hüseyin Emre Kaya, Vahdettin Demir
	Effects of Urban Vegetation in Mitigating Land Surface Temperature (LST) in Kaduna Metropolis, Nigeria Bello Abubakar Abubakar, Sani Abubakar Abubakar
Assessing the importance of variable selection in Land Subsidence Susceptibility Mapping Sepideh Tavakkoli Piralilou , Golzar Einali, Shokrolah Kiani, Khalil Gholamnia	
10:30-11:00	Break



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Day 2 (21 June 2022)	
Session 2 (Photogrammetry & Remote Sensing)	
Moderator: Assoc.Prof.Dr. Masoud Minaei	
Time	Presentations
11:00-12:30	Comparison of Photogrammetric Software Using the Terrestrial Photogrammetric Method: The Case of Hüsrev Paşa Mosque Fatih PULAT, Murat YAKAR, Ali Ulvi
	Comparison of shoreline extraction indexes performance using Landsat 9 satellite images in the heterogeneous coastal area Çiğdem Esendağlı, Serdar Selim, Nusret Demir
	Detection of surface algae blooms using the Sentinel 2A: An algorithm of the best strip ratio for a freshwater lake Pathmalal Manage, Charith Madushanka
	Global Scale-Biomass Estimation Based on a Deep Learning Method Somayeh Talebiesfandarani, Ali Shamsoddini
	Relationship between Net Primary Production (NPP) and Dust Storms in Different Land Cover Classes Shamsoddini Ali, Sadeghnezhad Ali
	Study of land subsidence by INSAR time series of ALOS-2, Sentinel-1 and GNSS CORS stations in Chaopraya basin, samutprakan, Thailand Adisorn Sittiwong
	Determination of the conversion of the stone fields into potential agricultural lands using Sentinel-2 satellite Hasan Lafçı, Halil İbrahim Şenol, Nizar Polat
	Preliminary results of surface displacement of the Elazığ Sivrice region by comparing D-InSAR and SBAS methods Dilara Solmaz , Furkan Veziro , Nusret Demir
	Evaluation of U-Th enrichments in QGIS platform; Example of Arıklı (Çanakkale, Turkey) district Cihan YALÇIN, Sercan Öztürk, Mustafa Kumral
	Applications of Machine Learning and Deep Learning Techniques in Smart Agriculture: A Review Mehran Dadashzadeh, Kosar Sakhaeian
12:30-13:30	Lunch Break



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Day 2 (21 June 2022)	
Session 3 (Photogrammetry & Remote Sensing)	
Moderator: Assoc.Dr. Sadra Karimzadeh	
Time	Presentations
13:30-15:00	Monitoring of growth of wheat's height using time series analysis of synthetic aperture radar (SAR) images and the corresponding parameters: A case study of a field in Hamedan province Ahya Rezaei, Sadra Karimzadeh, Khalil Valizadeh Kamran
	Identification of dust source and its modeling using HYSPLIT algorithm in West of Iran Behnaz Ghaderi, Zahra Azizi
	The effect of Covid-19 epidemic on the Land surface temperature of Asaluyeh Industrial City with an approach to image processing in Google Earth Engine Platform Mostafa MahdaviFard , Shahin Jafari , Khalil Valizadeh Kamran , Seyed Kazem Alavipanah
	Vis-NIR spectroscopy coupled with machine learning algorithms to predict soil gypsum in calcareous soils, southern Iran Monire Mina, Mahrooz Rezaei, leila Hossein Abadi, Abdolmajid Sameni
	Heavy vehicle detection using optical remote sensing images and deep learning Roya Talebi, Sadra Karimzadeh, Gordana Kaplan
	Remote sensing of Nighttime Light Samaneh Bagheri, Hooman Moradpour, Khalil Valizadeh Kamran, Sadra Karimzadeh
	Applying Object-Oriented Processing Techniques for Investigating Land Use/Land Cover Changes and Predicting Future Changes (Case Study: Miandoab, IRAN) Abolfazl Ghanbari, Khalil Valizadeh Kamran, Arezoo Rahimi
	GNSS-R of Soil Moisture Content in Khuzestan for Optimal Crop Distribution Andres Calabia, Iñigo Molina, Catherine Jones
	Due to the drop in the level of the Caspian Sea evaluation of the geomorphological properties of the coastal region based on the processing of satellite images Turkan Mamishova
	Aircraft Detection in Very High-Resolution Satellite Images using YOLO-based Deep Learning Methods Berkay Yaban, Ugur Alganci, Elif Sertel
A review of the various advances in smart cities: Application of artificial intelligence and machine learning Mehran Dadashzadeh, Farhad Jedari Zarezadeh	
15:00-15:30	Break



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Day 2 (21 June 2022)	
Session 4 (Geographic Information Systems)	
Moderator: Assoc.Prof. Dr Alireza Gharagozlou	
Time	Presentations
15:30-17:30	Calculate wastage and optimize building energy consumption using GEO BIM Saeed Rasti, Majid Kiyavarz , Abbas Rajabifard
	Investigation of land cover change with GIS using CORINE data Aslan Cihat Basara, Mehmet Emin Tabar, Sumeyra Gulsun, Yasemin Sisman
	Fire vulnerability of Hyrcanian forests (FVHF): A conceptual framework for an enhanced forest fire risk management in northern Iran Elnaz Nejatyanpour, Omid Ghorbanzadeh, Josef Strobl, Mahmoud Daneshvar Kakhki, Hamid Amirnezhad , Mahmoud Sabouhi Sabouni
	A correlation study for determination risk area of dengue fever and dengue hemorrhagic fever: a case study of Sisaket province, Thailand Nutchanon Chantapoh
	Chi-square automatic interaction detection (CHAID) algorithm for flood susceptibility assessment in Sardabroud watershed, Iran Alireza habibi , Mahmoud Reza Delavar , Mohammad Sadegh Sadeghian, Borzo Nazari
	Wind farm suitability analysis using Geographic Information System with Best-Worst Method in Amhara region of Ethiopia Zelalem AYALKE, Aziz ŞİŞMAN
	Low latitude ionosphere responses to solar wind forcing from GNSS data in March 2001 Chukwuma Moses Anoruo, Francisca Nneka Okeke, Kingsley Chukwudi Okpala, Andres Calabia
	Using the Firefly algorithm for geoid determination Ulku Kirici Yildirim, Yasemin Sisman
	Combining GIS and AHP models for Landfill site selection in Niğde, Turkey Cemil Gezgin
	Exploring the effect of Steiner points on the simplification algorithms Amir Gholami, Abolfazl Ghanbari, Neda Kaffash Charandabi
	Evaluation of geochemical analyzes in complex geological structures in GIS environment: Maden (Elazığ) district Mehmet Ali ERTÜRK, Cihan YALÇIN
Landslide susceptibility assessment of the high range areas in Thiruvananthapuram district (Southwest India) using the MCDA-AHP model and geospatial techniques S.J. Anchima, A. Gokul, N. Harshith, Romulus Costache, R.S. Ajin	