

**XXIX International Symposium on
“Modern Technologies, Education and Professional Practice in Geodesy and Related Fields”
November 5-6, 2019, Istanbul Technical University, Istanbul, Turkey
TECHNICAL PROGRAM**

	TIME	November 5, 2019
	08:45 – 09:15	REGISTRATION
	09:15 – 10:00	Opening & Welcome
10:00 – 11:00 SESSION – I GEODESY & RELATED FIELDS <i>Session Chairs : Prof. Dr. Rahmi Nurhan Çelik & Dr. Ivan Kaltchev</i>		
S1.01	10:00 – 10:20	Are Crowdsourcing, Open Data and Emerging Technologies Promising New Future in Geodesy? (Keynote Speech) <i>Rahmi Nurhan Çelik (TR)</i>
S1.02	10:20 – 10:30	Archaeoseismology of the North Black Sea - Bulgaria-Russia Expeditions <i>Boyko Rangelov (BG), Orlin Dimitrov (BG), Andrey Korzhenkov (RU), Evgeny Rogozhin (RU), Alexandr Ovsyuchenko (RU)</i>
S1.03	10:30 – 10:40	Ocean Tide Loading Displacements Observed by Very Long Baseline Interferometry During IVS CONT14 Campaign <i>Kamil Teke (TR)</i>
S1.04	10:40 – 10:50	The State of the Art About Drought Monitoring Observed by the New Satellite-based Techniques <i>Gonca Okay Ahi (TR)</i>
S1.05	10:50 - 11:00	Assessment of Single Point Approaches for Datum Definition in Classical Monitoring Networks <i>Mohammad Ali Sharifi (IR), Saeed Farzaneh (IR), Zahra Banimostafavi (IR)</i>
11:00-11:20 Coffee Break		
11:20 – 12:50 SESSION – II GEODESY & RELATED FIELDS <i>Session Chairs: Assoc. Prof. Dr. Emine Tanır Kayıkçı & Assoc. Prof. Dr. Mohammad Ali Sharifi</i>		
S2.06	11:20 – 11:40	Analysis of GNSS-derived Water Vapour during Extreme Weather Events in Black Sea Region (Invited Presentation) <i>Emine Tanır Kayıkçı (TR), Mualla Yalcinkaya (TR), Selma Zengin Kazancı (TR), Mesut Demircan (TR), Seldanur Çelik (TR)</i>
S2.07	11:40 – 12:00	Atmospheric Correction of Satellite Altimetry Observations using Complementary Geodetic Data (Keynote Speech) <i>Mohammad A. Sharifi (IR), Saeed Farzaneh (IR), Masoud Dehvari (IR)</i>
S2.08	12:00 – 12:10	High-rate GNSS precise point positioning (PPP) <i>Reha Metin Alkan (TR), Veli İlçi (TR), İ. Murat Ozulu (TR), Serdar Erol (TR)</i>
S2.09	12:10 – 12:20	Monitoring the Water Vapor, Snow/Ice and Sea Level Changes in the Antarctica with GNSS Meteorology and GNSS Reflectometry Techniques (Invited Presentation) <i>M. Oğuz Selbesoğlu (TR), H. Hakan Yavasoglu (TR), M. Faruk Karabulut (TR), V. Engin Güllal (TR), Himmət Karaman (TR), Mustafa E. Kamaşak (TR)</i>
S2.010	12:20 - 12:30	Multi-GNSS Contribution to Single-Frequency Precise Point Positioning <i>Berkay Bahadur (TR), Metin Nohutcu (TR)</i>
S2.011	12:30 – 12:40	Assessment of PPP Positioning Accuracy with Different Meteorological Data Sources <i>Buğçe Gökçe (TR), Duygu Dülger (TR), Berkay Bahadur (TR), Metin Nohutcu (TR), Kamil Teke (TR)</i>
S2.012	12:40 – 12:50	Methodology Assessment on Orbit Determination of LEO Satellites in Purpose of Global Geopotential Model Validation <i>Rewa Alkhal (TR), Bihter Erol (TR)</i>
LUNCH 13:00 – 14:00		

14:00 – 15:30 || SESSION – III GEODESY & SPECIAL TOPICS IN SURVEYING

Session Chairs : Prof. Dr. Uğur D. Şanlı & Prof. Dr. Keranka Vassileva

S3.O13	14:00 – 14:20	New Aspects in GNSS Positioning and Velocity Estimation (Keynote Speech) <i>D. Uğur Şanlı (TR)</i>
S3.O14	14:20 – 14:40	Geodetic Monitoring of Displacements and Deformations for Assessment of Effect from Suspend of Exploitation of Pernik Mines (Invited Presentation) <i>Ivan Kaltchev (BG), Maria Kaltcheva (BG)</i>
S3.O15	14:40 – 14:50	Evaluating the Repeatability of RTN GNSS (CORS-GNSS) <i>Atınç Pırtı (TR), Ramazan Gürsel Hoşbaş (TR)</i>
S3.O16	14:50 – 15:00	Natural Hazards, Geophysical Fields and Ecology Problems on the Bulgarian Black Sea Coast <i>Boyko Rangelov (BG), Evgeny Rogozhin (RU), Orlin Dimitrov (BG), Andrey Korzenkov (RU), Alexandr Ovsychenko (RU)</i>
S3.O17	15:00 – 15:10	Usability of the New GNSS-based Positioning Technologies <i>Veli İlçi (TR)</i>
S3.O18	15:10 – 15:20	3D Transformation Parameter Estimation for Automatic Point Cloud Registration <i>Ramazan Alper Kuçak (TR), Serdar Erol (TR)</i>
S3.O19	15:20 – 15:30	Accuracy Assessment of Satellite Positioning Techniques on Unmanned Aerial Vehicle (UAV) Photogrammetry <i>Ersin Turan (TR), Serdar Erol (TR), Ramazan Alper Kuçak (TR), Bihter Erol (TR)</i>

15:30-15:50 Coffee Break

15:50 – 17:10 || SESSION – IV GEODESY & EARTH GRAVITY FIELD

Session Chairs : Assoc. Prof. Dr. Ramazan Alpay Abbak & Assoc. Prof. Dr. Lyubka Pashova

S4.O20	15:50 – 16:10	Recent Developments on Gravimetric Geoid Determination (Invited Presentation) <i>Ramazan Alpay Abbak (TR)</i>
S4.O21	16:10 – 16:20	Refinement and Construction of Louisiana Local Gravity Grid for Precise Geoid Determination <i>Ahmed Abdalla (USA), Clifford Mugnier (USA), Bihter Erol (TR), J. Anthony Cavell (USA)</i>
S4.O22	16:20 – 16:30	Estimation of Sea Level Trend in the Black Sea from Satellite and in-situ Data <i>Nevin Betül Aysar (TR), Senol Hakan Kutoglu (TR), Shuanggen Jin (CN)</i>
S4.O23	16:30 – 16:40	A Spectral Filtering Approach to Assess the Trend of Recent Mass Decrease over Lake Urmia Using GRACE's Mascon Solution <i>Alireza Sobouti (IR), Mohammad Ali Sharifi (IR)</i>
S4.O24	16:40 – 16:50	Physical Height Changes Estimated by GRACE Data: A Case Study over Greenland <i>Emel Zeray Öztürk (TR), Ramazan Alpay Abbak (TR)</i>
S4.O25	16:50 – 17:00	Impact of Tides Constituents on Determining of Sea Level Trends in the Southwestern Coast of Turkey <i>Muharrem Hilmi Erkoç (TR), Uğur Doğan (TR)</i>
S4.O26	17:00 – 17:10	Analyzing the Interpolation Techniques by Computing the Height Transformation Surfaces Using GPS/Leveling Data <i>Onur Karaca (TR), Bihter Erol (TR)</i>

17:10-17:20 Short Coffee Break

17:20 – 18:00 || SESSION – V SPECIAL SESSION FOR YOUNG RESEARCHERS

Session Chairs : Assist. Prof. Dr. Metin Nohutcu & Assist. Prof. Dr. Davis Dinkov

S5.O27	17:20 – 17:30	Use of Transferable Development Rights (TDR) Method on the Preservation of Historic Buildings in Turkey <i>Yunus Konbul (TR), Mustafa Yanalak (TR)</i>
S5.O28	17:30 – 17:40	Georeferencing in 3D point Clouds with L1 Norm (least absolute value) Method <i>Ülkü Kırıcı Yıldırım (TR), Yasemin Şişman (TR)</i>
S5.O29	17:40 – 17:50	Smart City Applications <i>Hilal Türk (TR), Reha Metin Alkan (TR)</i>
S5.O30	17:50 – 18:00	A Performance Analysis of Low-Cost Single and Dual frequency GNSS receivers Using N-RTK <i>Nedret Bozkurt (TR), M. Halis Saka (TR)</i>

18:00 – 19:00 ICEBREAKING

	TIME	November 6, 2019
09:00 – 10:40 SESSION – VI REMOTE SENSING & APPLICATIONS <i>Session Chairs : Assoc. Prof. Dr. Füsün Balık Şanlı & Assoc. Prof. Dr. Mila Atanasova</i>		
S6.O31	09:00 – 09:20	Regularized Greedy Forests for Polarimetric Sar Image Classification (Invited Presentation) <i>Mustafa Üstüner (TR), Füsün Balık Şanlı (TR)</i>
S6.O32	09:20 – 09:40	Making Sense of a PsInSAR Sentinel-1A/B map of a Long-term Explored Oil and Gas Deposits: Case Study of Seria, Brunei Darussalam Field (Invited Presentation) <i>Kazimierz Becek (PL), Saygın Abdikan (TR), Çağlar Bayık (TR), Gabriel Yong (BN)</i>
S6.O33	09:40 – 09:50	Detection of Ground Motions in Coastal Area <i>Hristo Nikolov (BG), Mila Atanasova (BG)</i>
S6.O34	09:50 – 10:00	Geospatial Technologies Applied for Morphometric Analysis of Debris Flows Basins in the Eastern Rhodopes, Bulgaria <i>Asparuh Kamburov (BG), Valentina Nikolova (BG), Radostina Rizova (BG)</i>
S6.O35	10:00 – 10:10	Burned Large Forest Area Mapping Based on Google Earth Engine <i>Adalet Dervisoglu (TR), Nur Yagmur (TR), Aylin Tuzcu (TR), Nebiye Musaoglu (TR)</i>
S6.O36	10:10 - 10:20	On the Use of Genetic Algorithm in Component Substitution-based Pansharpening <i>Volkan Yılmaz (TR)</i>
S6.O37	10:20 - 10:30	Performances of Landsat 8 and Sentinel-2 Data in Mapping Open Mining Areas; İstanbul Case Study <i>Hazal Ciğerci (TR), Filiz Bektaş Balçık (TR)</i>
S6.O38	10:30 - 10:40	Improving the Classification Accuracy of Hyperspectral Images: an Analysis of Feature Selection Approaches <i>Akhtar Jamil (TR), Bülent Bayram (TR), Erdal Alimovski (TR)</i>
10:40-11:00 Coffee Break		
11:00 – 12:10 SESSION – VII PHOTOGRAMMETRY & NEW TECHNOLOGIES <i>Session Chairs : Prof. Dr. Dursun Zafer Şeker & Prof. Dr. Kazimierz Becek</i>		
S7.O39	11:00 – 11:10	A Low-cost UAV-PPK Method – Accuracy and Application <i>Davis Dinkov (BG)</i>
S7.O40	11:10 – 11:20	Assessment of Satellite Derived Bathymetry Data Usage in the Hydrographic Survey Planning Phase <i>Koray Açar (TR), Dursun Zafer Şeker (TR)</i>
S7.O41	11:20 – 11:30	Visualization of Geospatial Point Clouds Through Virtual Reality System <i>Deyan Sosserov (BG), Tanya Slavova (BG)</i>
S7.O42	11:30 – 11:40	Direct Geo-referencing of UAV Images for Orthophoto Generation based on RTK GNSS Positioning <i>Burak Akpınar (TR), M. Oğuz Selbesoğlu (TR), Nedim Onur Aykut (TR), Onur Can Bayrak (TR), Bülent Bayram (TR)</i>
S7.O43	11:40 – 11:50	Documentation of Archeological Sites with UAVs: A Case Study of Nikopolis ad Nestum in SW Bulgaria <i>Grigor Nikolov (BG), Lyubka Pashova (BG)</i>
S7.O44	11:50 – 12:00	Comparison of Different Deep Learning based Face Recognition Systems <i>M. Taha Aydın (TR), Metehan Doğan (TR), O. Can Bayrak (TR), Bülent Bayram (TR)</i>
S7.O45	12:00 – 12:10	Research Activities in ITU Research and Application Center for Satellite Communications and Remote Sensing (CSCRS) (Invited Presentation) <i>Elif Sertel (TR)</i>

TECHNICAL TOUR || 12:10 – 13:00

ITU Research and Application Center for Satellite Communications and Remote Sensing (CSCRS)

LUNCH 13:00 – 14:00**14:00 – 15:10 || SESSION – VIII GEODETIC EDUCATION & QUALITY ASSESSMENT***Session Chairs : Prof. Dr. Hande Demirel & Prof. Dr. Boyko Ranguelov*

S8.O46	14:00 – 14:20	50 years in Geomatics Engineering Education at ITU (<i>Keynote Speech</i>) <i>Himmet Karaman (TR), Mustafa Yanalak (TR)</i>
S8.O47	14:20 – 14:40	Accreditation in Geomatics Engineering: Lessons Learned <i>(Invited Presentation)</i> <i>Hande Demirel (TR)</i>
S8.O48	14:40 – 14:50	Project CABARET – WP7 Educational Development and Deliverables <i>Boyko Ranguelov (BG), Fathimath Shadiya (MV), Fathimath Nistharan (MV), Mariyam Humra (MV), Mariyam Eeman (MV), Mohamed Haikal Ibrahim (MV)</i>
S8.O49	14:50 – 15:00	Review and Analysis of Best Practices for Creating Geoportals <i>Kostadin Nikolov (BG)</i>
S8.O50	15:00 – 15:10	VR Technologies in Geospatial Education <i>Tanya Slavova (BG), Deyan Sosserov (BG)</i>

15:10-15:30 Coffee Break**15:30 – 16:10 || SESSION – IX LAND USE & LAND INFORMATION SYSTEMS***Session Chairs : Prof. Dr. Reha Metin Alkan & Assoc. Prof. Dr. Christina Mikrenska-Cherneva*

S9.O51	15:30 – 15:40	Energy performance certificate for buildings: an opportunity to establish building energy information system integrated with cadastral system in Turkey <i>Mehmet İşiler (TR), Büşra Kartal (TR), Mustafa Yanalak (TR)</i>
S9.O52	15:40 – 15:50	GIS Application for Water Company Needs <i>Christina Mickrenska-Cherneva (BG), Radoslav Mladenov (BG)</i>
S9.O53	15:50 – 16:00	Land Use / Land Cover Change with Corine Data: Case of Turkey <i>Selin Tekin (TR), Arzu Erener (TR)</i>

16:00-16:20 Coffee Break**16:20 – 17:00 || SESSION – X SPECIAL SESSION FOR YOUNG RESEARCHERS***Session Chairs : Assoc. Prof. Dr. Bihter Erol & Assoc. Prof. Dr. Asparuh Kamburov*

S10.O54	16:20 – 16:30	Analysis of GNSS satellite visibility according to the max(GDOP) criteria for the region of Turkey <i>Sinan Birinci (TR), Furkan Soğukkuyu (TR), M. Halis Saka (TR)</i>
S10.O55	16:30 – 16:40	Analyses on High Resolution Global Digital Terrain Model Qualities and Their use in Gravity Reductions <i>Aslınur Bahçekapılı (TR), Bihter Erol (TR)</i>
S10.O56	16:40 – 16:50	Assesments On Temporal Variations of Earth Gravity Field with GRACE Observations Using Different Computation Services <i>Bilal Mutlu (TR), Muhammed Raşit Çevikalp (TR), Bihter Erol (TR)</i>
S10.O57	16:50 – 17:00	Precise Orbit Determination (POD) of LEO Satellite Missions <i>İlker Üstüner (TR), Serdar Erol (TR)</i>

POSTER SESSION – November 5-6, 2019

Posters will be available on boards in the poster hall during the symposium.

SP.P01	10:40 – 11:20	Creation And Use of Digital Territory Models <i>Dimitar Tonkov (BG)</i>
SP.P02	10:40 – 11:20	Ecological Monitoring with Multispectral Images <i>Yoana Tsarovka (BG)</i>
SP.P03	10:40 – 11:20	Evaluation of Covariance Determination Procedure Using GOCE gradient data and Least Squares Collocation <i>Hadi Heydarizadeh Shali (IR), Sabah Ramouz (IR), Abdolreza Safari (IR), Ricardo Barzaghi (IT)</i>
SP.P04	10:40 – 11:20	BalkanMed Real-time Severe Weather Service: Progress and Prospects in Bulgaria <i>G.Guerova (BG), T.Dimitrova (BG), M.Slavchev (BG), K.Stoev (BG), S. Georgiev (BG), Keranka Vassileva (BG)</i>

Closing & Remarks



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