

# RSCy2019

18-21 March 2019, Paphos, Cyprus



## Seventh International Conference on Remote Sensing and Geoinformation of Environment

### ORGANIZER:

- Cyprus Remote Sensing Society



Cyprus  
Remote Sensing  
Society

### IN COLLABORATION WITH:

- ESA (European Space Agency)
- NASA (National Aeronautics and Space Administration)
- GEO (Group on Earth Observations)
- European Commission
- Department of Electronic Communications of the Ministry of Transport, Communications and Works
- DLR (German Aerospace Center)
- Copernicus
- International Society for Photogrammetry and Remote Sensing (ISPRS)
- ETEK (Cyprus Scientific and Technical Chamber)
- Agricultural Research Institute
- Department of Meteorology



## Conference Program





**Seventh International Conference on Remote Sensing and Geoinformation of Environment**  
**Conference Program**  
**March 18-21, 2019**  
**Aliathon Hotel Village - Paphos, Cyprus**  
[www.cyprusremotesensing.com/rs/cy2019](http://www.cyprusremotesensing.com/rs/cy2019)



Day Time	Monday 18/3/2019	Tuesday 19/3/2019	Wednesday 20/3/2019	Thursday 21/3/2019
8:00 - 17:00	Registration Arion Bar Right Side	Registration Arion Bar Right Side	Registration Arion Bar Right Side	Registration Arion Bar Right Side
9:00 - 11:00	Opening Ceremony 9:15 - 10:30 Aphrodite Hall  Keynote Speakers: Gordon Campbell, <b>ESA</b> Aphrodite Hall	Parallel Sessions  Agriculture Aphrodite Hall	Parallel Sessions  Water/Coastal Aphrodite Hall	Parallel Sessions  Satellites Aphrodite Hall
11:00 - 11:30	Coffee Break Arion Bar	Coffee Break - Poster presentations Parallel Sessions	Coffee Break - Poster presentations Parallel Sessions	Coffee Break - Poster presentations Parallel Sessions
11:30 - 13:00	Keynote Speakers: Garik Gutman, <b>NASA</b> Oriana Grasso, <b>European Commission</b> Annakatrien Debien, <b>Copernicus</b> Aphrodite Hall	CopHub Workshop Copernicus (9:00 - 12:00) Adonis Room	Cultural Heritage Aphrodite Hall	Urban Aphrodite Hall
13:00 - 14:30	Lunch Pantheon Restaurant	Lunch Pantheon Restaurant	Organized Trip with Lunch Tomb of the Kings/Archaeological Park	Closing Ceremony Aphrodite Hall
14:30 - 16:00	Parallel Sessions  Forests Aphrodite Hall	Parallel Sessions  GIS Aphrodite Hall	 LIDAR workshop at Paphos Castle	
16:00 - 16:30	Coffee Break - Poster presentations Parallel Sessions	Coffee Break - Poster presentations Parallel Sessions		
16:30 - 18:30	Forests Aphrodite Hall	Natural Hazards Aphrodite Hall		
18:30 - 20:00	Free	Free	Free	
20:00 - ...		Social Dinner - TBA		

# Seventh International Conference on Remote Sensing and Geoinformation of Environment

## Conference Program

March 18-21, 2019 - Aliathon Hotel Village - Paphos, Cyprus

[www.cyprusremotesensing.com/rscy2019](http://www.cyprusremotesensing.com/rscy2019)

### Monday 18 March 2019

<b>8:00 - 17:00</b>			<b>REGISTRATION</b>
<b>9:15 - 10:30</b>			<b>Opening Ceremony</b>
Welcome from the Cyprus Remote Sensing Society, Greetings from various organizations and Government departments Opening Speech from H.E. Minister of Transport, Communication and Works, Mrs. Vasiliki Anastasiadou			
<b>10:30 - 11:00</b>			<b>Keynote Speakers</b>
LINKING CYPRUS TO EO OPPORTUNITY WITH ESA - <i>Gordon Campbell, European Space Agency</i>			
<b>11:00 - 11:30</b>			<b>COFFEE BREAK - POSTER PRESENTATIONS</b>
<b>11:30 - 13:00</b>			<b>Keynote Speakers</b>
MISSION TO PLANET EARTH REVISITED: MULTI-SOURCE LAND IMAGING AT NASA FOR MONITORING LANDSCAPES OVER THE GLOBE - <i>Garik Gutman, NASA</i>			
COPERNICUS UPDATES: DEVELOPMENTS OF THE EU GEO INFORMATION SYSTEM - <i>Oriana Grasso, European Commission</i>			
COPERNICUS: POSSIBILITIES FOR THE FUTURE - <i>Annekatrien Debien, Copernicus</i>			
<b>13:00 - 14:30</b>			<b>LUNCH</b>
<b>14:30 - 16:00</b>			<b>Forests</b>
			<b>Chair: V. Ambrosia</b>
<b>ID</b>	<b>Title</b>		<b>Authors</b>
<b>Aphrodite Hall</b>	666	GEOSPATIAL INFORMATION FOR ASSESSMENT OF CLIMATE CHANGES IMPACTS ON FOREST PHENOLOGY	<b>D. M. Savastru, M. A. Zoran &amp; R. S. Savastru</b>
	695	FOREST DISTURBANCE ASSESSMENT WITH LANDSAT DATA IN MIDDLE VOLGA REGION	<b>I. Polevshchikova</b>
	722	INTEGRATED MODEL OF APPLICATION OF REMOTE SENSING AND FIELD INVESTIGATIONS FOR SANITARY STATUS ASSESSMENT OF FOREST STANDS IN TWO RESERVES IN WEST BALKAN RANGE, BULGARIA	<b>S. Dimitrov, G. Georgiev, P. Mirchev, M. Georgieva, M. Iliev, D. Doychev, S. Bencheva, G. Zaemdzhikova &amp; N. Zaphirov</b>
	723	TOWARDS A FULLY AUTOMATIC PROCESSING CHAIN FOR OPERATIONALLY MAPPING BURNED AREAS COUNTRYWIDE EXPLOITING SENTINEL-2 IMAGERY	<b>D. Stavrakoudis, T. Katagis, C. Minakou &amp; I.Z. Gitas</b>
	729	SATELLITE REMOTE SENSING FOR MONITORING OF THE FOREST RESOURCES OF KAZAKHSTAN	<b>G. Kabdulova, G. Kabzhanova, K. Baktybekov, A. Aimbetov &amp; L. Aligazhiyeva</b>
<b>14:30 - 16:00</b>			<b>Remote Sensing</b>
			<b>Chair: P. Kyriakidis</b>
<b>ID</b>	<b>Title</b>		<b>Authors</b>
<b>Aphrodite Hall</b>	794	THE H2020 VIRTUAL MULTIMODAL MUSEUM PROJECT'S ROAD-MAP: THE EU ACTION PLAN ON DIGITAL CULTURAL HERITAGE	<b>M. Ioannides</b>
	752	SPECTRAL AND PETROPHYSICAL DATA FOR FILLING IN THEMATIC DATABASE IN EARTH OBSERVATION OVER TEST SITE	<b>D. Borisova, M. Goranova, V. Hristova, D. Avetisyan &amp; A. Kisyov</b>
	766	PLANT SPECIES CONCENTRATION ESTIMATION USING MULTISPECTRAL REMOTE SENSING IMAGES	<b>A. Denisova, A. Egorova &amp; VI. Sergeev</b>
	712	USING MULTI-SOURCE GEOSPATIAL INFORMATION TO REDUCE SATURATION OF DMSP/OLS NIGHTTIME LIGHT DATA	<b>Q. Zhang, Z. Wu, Z. Zheng, Y. Chen &amp; P. Tarolli</b>
	781	EARTH OBSERVATION BASED SERVICES AND TOOLS IN SUPPORT OF SUSTAINABLE URBANIZATION	<b>C. Cartalis, A. Polydoros, I. Agathangelidis &amp; T. Mavroukou</b>
<b>16:00 - 16:30</b>			<b>COFFEE BREAK - POSTER PRESENTATIONS</b>
<b>16:30 - 18:30</b>			<b>Forests</b>
			<b>Chair: V. Ambrosia</b>
<b>ID</b>	<b>Title</b>		<b>Authors</b>
<b>Aphrodite Hall</b>	736	AN IMPROVED 3D FOREST MAPPING USING DUAL-WAVELENGTH AIRBORNE LIDAR SCANNER	<b>A. Cottin, M. Pfennigbauer &amp; A. Hofbauer</b>
	753	FOREST DIVERSITY ESTIMATION USING SENTINEL-2 AND RAPIDEYE IMAGERY: A CASE STUDY OF THE NORTHERN PINDOS NATIONAL PARK	<b>I. Chrysafis, G. Mallinis, G. Korakis &amp; E. Dragozi</b>
	772	TREE SPECIES CLASSIFICATION FOR CLARIFICATION OF FOREST INVENTORY USING SENTINEL-2 IMAGES	<b>A. Denisova, L. Kavelenova, E. Korchikov, N. Prokhorova, D. Terentyeva &amp; V. Fedoseev</b>
	788	DEVELOPMENT OF AUTOMATED WORKFLOWS (SPATIAL MODELS) FOR FOREST MONITORING WITH THE USE OF TIME-SERIES OF MULTISPECTRAL OPTICAL AND SAR DATA	<b>E. Maltezos, N. Grammalidis, T. Katagis, I. Gitas &amp; V. Charalampopoulou</b>
	716	MODELING FOREST ATTRIBUTES USING AIRBORNE AND SPACEBORNE REMOTE SENSING DATA IN KENYA	<b>H. Adhikari, R. Piironen, P. Pellikka &amp; J. Heiskanen</b>
<b>16:30 - 18:30</b>			<b>Remote Sensing</b>
			<b>Chair: D. Borisova</b>
<b>ID</b>	<b>Title</b>		<b>Authors</b>
<b>Adonis</b>	782	REFINING EARTH OBSERVATION BASED TECHNIQUES TO MANAGE NATURAL DISASTERS	<b>T. Mavroukou, A. Polydoros, R. Foskinis &amp; C. Cartalis</b>
	749	ESSENTIAL VARIABLES: DESCRIBING THE CONTEXT, PROGRESS AND OPPORTUNITIES FOR THE REMOTE SENSING COMMUNITY	<b>N. Verde, M. Tassopoulou, H. Georgiadis, D. Kaimaris &amp; P. Patias</b>
	751	DEMONSTRATING THE POTENTIAL OF REMOTE SENSING TO SUPPORT SUSTAINABLE DEVELOPMENT GOALS IMPLEMENTATION: CASE STUDIES OVER GREECE	<b>M. Tassopoulou, N. Verde, G. Mallinis, H. Georgiadis, D. Kaimaris &amp; P. Patias</b>



<b>Adonis</b>	759	RHETICUS: INSIGHTFUL GEO-ANALYTICS FOR DECISION MAKING IN TRANSPORT AND INFRASTRUCTURE OPERATIONAL ACTIVITIES	<b>Y. Spastra, S. Bollanos</b> , G. Forenza & A. Aiello
	765	DYNAMIC GEOVISUALIZATION OF POPULATION EXPECTED AT POINTS OF INTEREST OVER DAILY TIMESCALES: AN APPLICATION AT LATSIA, NICOSIA, CYPRUS	<b>S. Chrysoulidis &amp; P. Kyriakidis</b>
	681	THE ACCURACY OF REMOTE SENSING DERIVED SST VALUES COMPARED WITH IN SITU MEASUREMENTS IN EASTERN	<b>A. Georgiou</b> , C. Jimenez & L. Hadjioannou
	750	VALIDATION OF MAPPING POSIDONIA OCEANICA MEADOWS THROUGH SUPERVISED CLASSIFICATION TECHNIQUES ON OPTICAL SATELLITE IMAGERY: THE CASE STUDY OF LIMASSOL, CYPRUS	<b>A. Yfantidou</b>
	783	BIG REMOTE SENSING DATA ANALYSIS USING HYBRID DEEP LEARNING FRAMEWORK : APACHE SPARK AND TENSORFLOW	H. Balti, I. Chebbi & I. Riadh Farah

## Tuesday 19 March, 2019

<b>8:00 - 17:00</b>		<b>REGISTRATION</b>	
<b>9:00 - 11:00</b>		<b>Agriculture</b>	
<b>Chair: G. Fratino</b>			
<b>ID</b>	<b>Title</b>	<b>Authors</b>	
<b>Aphrodite Hall</b>	670	ESTIMATION OF IRRIGATION WATER REQUIREMENTS AT IRRIGATION DISTRICT LEVEL USING MODIS EVAPOTRANSPIRATION PRODUCT	<b>G. Peschechera</b> , N. Lamaddalena & <b>U. Fratino</b>
	645	TIME SERIES ANALYSIS OF VEGETATION-COVER RESPONSE TO ENVIRONMENTAL FACTORS AND RESIDENTIAL DEVELOPMENT IN A DRYLAND REGION	<b>N. Ohana-Levi</b> , T. Paz-Kagan, N. Panov, A. Peeters, A.Tsoar & A. Karnieli
	659	STUDY OF PLANT COMMUNITIES OF ECOTOPES FORMED BY DENUDATION AT CLIFF	<b>M. Krylenko</b> , S. Krylenko & <b>V. Krylenko</b>
	779	MONITORING OF SOIL MOISTURE USING OF GROUND AND SATELLITE DATA FOR AGRICULTURAL APPLICATIONS	<b>D. Atanasov</b> , V. Georgieva & V. Kazandjiev
	718	ACCURACY ASSESSMENT OF EARLY- AND LATE-SEASON CROP CLASSIFICATION USING OPTICAL AND SAR IMAGERY	<b>B. Pejak</b> , M. Pandžić, P. Lugonja & O. Marko
	727	APPLICABILITY OF PARAMETRIC AND NON-PARAMETRIC REGRESSION MODELS FOR RETRIEVAL OF CROP CANOPY PARAMETERS FOR WINTER RAPESEED AND WHEAT CROPS UNSING SENTINEL-2 MUTLISPECTRAL DATA	<b>D. Ganeva</b> , E. Roumenina, G. Jeleov, M. Banov, V. Krasteva & V. Kolchakov
	701	EARTH OBSERVATION METHODOLOGY FOR ENHANCING QUALITY AND MARKET POTENTIAL IN OLIVES USING UAV IMAGERY AND MACHINE LEARNING TECHNIQUES - A GREENOMED CASE	E. Aravidis, N. Tziolas, V. Polychronos & <b>G. Zalidis</b>
	656	UNIVERSITY STUDENTS' ATTITUDES AND TRAINING NEEDS OF PRECISION AGRICULTURE: EVIDENCE FROM EURO-MEDITERRANEAN REGIONS	A. Michailidis
<b>9:00 - 12:00</b>	<b>CopHub Presentation</b>		<b>Room: Adonis</b>
<b>11:00 - 11:30</b>	<b>COFFEE BREAK - POSTER PRESENTATIONS</b>		
<b>11:30 - 13:00</b>	<b>Land cover/use</b>		<b>Chair: V. Ambrosia</b>
<b>ID</b>	<b>Title</b>	<b>Authors</b>	
<b>Aphrodite Hall</b>	653	A SEMI-AUTOMATIC APPROACH FOR ROOF-TOP EXTRACTION AND CLASSIFICATION FROM AIRBORNE LIDAR	<b>Yogender</b> , S.K.P. Kushwaha & R. Sara
	705	GEOINFORMATION ANALYSES OF LAND-USE CHANGES IN NORTHEAST SLOVENIA: A CASE STUDY OF THE JARENINA CREEK CATCHMENT	<b>R. Ciglič</b> , M. Ferk, M. Hrvatin, B. Komac, J. Tičar, M. Zorn, J. Deriaz & D. Lóczy
	704	THE USE OF GENERAL BLACK-BOX EXPLANATION METHOD FOR EXPLAINING SLOVENIAN LANDSCAPE TYPOLOGY MAP	<b>R. Ciglič</b> , E. Štrumbelj, R. Češnovar, M. Hrvatin & D. Perko
	721	IMPROVE LANDSAT LST MEASUREMENT TIME USING SEVIRI DATA OVER AN URBAN AREA IN A SEMIARID REGION	<b>A. Abdulla</b> , K. Tansey & K. Barrett
	703	MAPPING AUSANGANTE GLACIER CHANGES USING CLUSTERING TECHNIQUES ON CLOUD COMPUTING INFRASTRUCTURE	<b>V. Ayma</b> , C. Beltrán, P. Happ, G. Costa & R. Feitosa
	758	ANALYZING LAND USE CHANGES IN HISTORICAL URBAN QUARTER. CASE KYRENIA CITY	I. Yaralıoğlu, C. Kara & S.S. Uzunoğlu
<b>11:30 - 13:00</b>	<b>Atmospheric</b>		<b>Chair: I Bernetti</b>
<b>ID</b>	<b>Title</b>	<b>Authors</b>	
<b>Zeus</b>	660	QUANTIFYING THE IMPACT OF TREES ON LAND SURFACE TEMPERATURE: A DOWNSCALING ALGORITHM AT CITY-SCALE	<b>E. Barbierato</b> , <b>I. Bernetti</b> , <b>I. Capecchi</b> & C. Saragosa
	668	SPATIAL DISTRIBUTION OF XCO2 USING THE OCO-2 DATA AND ENVIRONMENTAL VARIABLES OVER IRAN	<b>S. Falahatkar</b> , Z. Siabi & S.J. Alavi
	679	GEOSPATIAL AND IN-SITU INFORMATION FOR ASSESSMENT OF URBAN CLIMATE	<b>M. A. Zoran</b> , R. S. Savastru, <b>D. M. Savastru</b> & M. N. Tautan
	747	MODELING OF AIR TEMPERATURES BY MULTIPLE LINEAR REGRESSIONS IN THE RHÔNE-ALPES REGION (FRANCE): ENHANCEMENT OF TOPOGRAPHIC AND METEOROLOGICAL VARIABLES BY REMOTE SENSING DATA	<b>L. Alonso</b> & F. Renard
	777	VALIDATION OF THE SENTINEL-3 SLSTR LST PRODUCT USING IN-SITU DATA FROM METEOROLOGICAL STATIONS IN CYPRUS	<b>E. Loulli</b> & <b>D.G. Hadjimitsis</b>
<b>13:00 - 14:30</b>	<b>LUNCH</b>		

14:30 - 16:00		GIS	Chair: S. Michaelides
ID	Title		Authors
Aphrodite Hall	709	EASTMEDATLAS - ON-LINE DATA ACCESS SYSTEM	E. Zhuk & G. Zodiatis
	706	REMOTE MONITORING OF THE MAIN TYPES OF SOIL IN NORTHERN KAZAKHSTAN	G. Kabzhanova, K. Baktybekov, A. Aimbetov, A. Kurmasheva & G. Kabdulova
	664	GIS APPLICATIONS IN MARINE RESEARCH IN THE BLACK SEA	V. Belokopytov, V. Dolotov, E. Godin, A. Ingerov & E. Zhuk
	773	CONSIDERING PRIVACY ISSUES IN CONTEXT-AWARE MOBILE NAVIGATION SYSTEMS	N. Akçit, E. Tomur & M.O. Karslıoğlu
	775	FLOOD RISK ANALYSIS BY USING GIS. KYRENIA CITY AS A CASE STUDY	C. Kara & N. Akçit
	647	IMPACT OF SUICIDE BOMBINGS ON ENVIRONMENT IN PAKISTAN USING SPATIAL AND TEMPORAL ANALYSIS	J. Hassan & M.S. Sarfraz

**16:00 - 16:30 COFFEE BREAK - POSTER PRESENTATIONS**

16:30 - 18:30		Natural Hazards	Chair: M. Zoran
ID	Title		Authors
Aphrodite Hall	790	THE INVESTMENT IN STRATEGIC SPACE-BASED RESEARCH INFRASTRUCTURE UNITS FOR A RESILIENT SOCIETY: THE CASE OF CYCLOPS	C. Danezis, D. G. Hadjimitsis, M. Eineder, R. Brcic, K. Themistocleous, C. Papoutsas, E. Mendonidis, M. Nikolaidis, M. Tzouvaras & A. Christofe
	655	ENDEMIC FORESTS IN DANGER: LAND USE SHIFTS AND ACCOMPANYING IMPACTS UPON THE NATURAL FLOOD STORAGE CAPACITY ALONG THE NORTH BULGARIAN BLACK SEA COAST	I. Kotsev & B. Prodanov
	686	PRIORITISATION OF WATERSHEDS USING TOPSIS AND VIKOR METHOD	W. Makhdumi & G.S. Dwarakish
	665	INVESTIGATION OF SATELLITE THERMAL IR AND ATMOSPHERIC RADON ANOMALIES RECORDED FOR SOME MODERATE EARTHQUAKES IN VRANCEA GEOTECTONIC ACTIVE AREA	M. A. Zoran, R. S. Savastru & D. M. Savastru
	730	ON THE USE OF SAR AND OPTICAL DATA IN ASSESSMENT OF FLOODED AREAS	T. Spasova & R. Nedkov
	755	LANDSLIDE INVESTIGATION IN THE NORTH WEST OF SYRIA USING D-INSAR TECHNIQUE	M. Hammad, L. Mucsi & B. Van Leeuwen
	678	APPLICATION OF REMOTE SENSING FOR EARLY WARNING AND CRISES MANAGEMENT IN KUWAIT	A. Alenezia & P. Petrov
	719	MULTI-CRITERIA CARTOGRAPHIC ANALYSIS FOR BETTER LOCATION OF TSUNAMI SIRENS OVER ECUADORIAN PACIFIC COAST	P. Melo, X. Riofrio, D. Andrade & R. Zafrir

**Wednesday 20 March, 2019**

**8:00 - 17:00 REGISTRATION**

**9:00 - 11:00 COASTAL WATERS, OCEANS AND LARGE WATER BODIES Chair: L. Ragia**

ID	Title		Authors
Aphrodite Hall	657	THE LEVECO PROJECT BIO-OPTICS EXPERIMENT IN THE NORTHWESTERN LEVANTINE SEA: PRELIMINARY RESULTS	A. Karageorgis, P. Drakopoulos, S. Chaikalis, A. Lagaria, N. Spyridakis & S. Psarra
	694	ROMS-AGRIF NUMERICAL OCEAN MODEL APPLICATION OVER EASTERN MEDITERRANEAN AND LEVANTINE SEAS	A. Nikolaidis, G. Georgiou, D.G. Hadjimitsis & E. Akylas
	702	EVALUATING THE CHANGES OF THE COASTAL AREAS USING REMOTE SENSING DATA AND GEOSPATIAL ANALYSIS	L. Ragia & P. Krassakis
	724	IN-DEPTH WAVEFORM ANALYSIS OF UAV-BORNE LASER BATHYMETRY DATA	R. Schwarz, A. Cottin, M. Pfennigbauer, A. Lewinter & P. Gadomski
	744	MONITORING SPATIAL AND TEMPORAL VARIATION OF WATER QUALITY PARAMETERS USING TIME SERIES OF OPEN MULTISPECTRAL DATA	M. Govedarica & G. Jakovljević
	778	HYDROLOGICAL MODELLING USING REMOTE SENSING TECHNIQUES IN BULGARIA	G. Koshinchanov & S. Balabanova
	707	MODEL THE OCEAN PARAMETER (CHLOROPHYLL-A, SEA SURFACE TEMPERATURE, AND SALINITY) FROM MODIS SATELLITE DATA IN RELATION TO POTENTIAL FISH ZONE: RED SEA, SAUDI ARABIA	S. T. Daqamseh
	743	THE USE OF MCDM AND GIS IN HYDROMETEOROLOGICAL-HYDROMETRIC NETWORK DESIGN: A CASE STUDY IN THESSALY,	E. Baltas, A. Bournas, E. Feloni, A.-P. Theochari & M.-M. Bertsiou
	757	DRONE AND SENTINEL-2 DATA APPLICATION FOR MAPPING OF MOWING EFFECTS ON REED STANDS IN THE PLATELIAI LAKE (LITHUANIA)	E. Tiškus, M. Bučas, V. Stragauskaitė & D. Vaičiūtė

**9:00 - 11:00 MEDRIN MEETING Room: Adonis**

**11:00 - 11:30 COFFEE BREAK - POSTER PRESENTATIONS**

**11:30 - 13:30 Cultural Heritage Chair: A. Agapiou**

ID	Title		Authors
Aphrodite Hall	651	VIRTUAL CONSTELLATIONS FOR CULTURAL HERITAGE: POTENTIALS AND LIMITATIONS	A. Agapiou
	669	ARCHAEOLOGICAL, SURVEYING AND ARCHITECTURAL COOPERATION – EXAMPLE OF PHOTOGRAMMETRY DOCUMENTATION OF ARCHITECTURAL DETAILS	J. Ruchała & E. Puniach
	672	LEGAL RESTRICTIONS AS A TRIGGER FOR REPLACEMENT UNMANNED AERIAL VEHICLES – ALTERNATIVE PHOTOGRAMMETRIC METHOD OF ARCHAEOLOGICAL DOCUMENTATION	P. Cierpich, J. Ruchała & P. Cwiąkała

<b>Aphrodite Hall</b>	673	ARCHAEOLOGICAL DOCUMENTATION QUALITY DEPENDING ON GROUND CONTROL POINTS (GCP) SURVEYING TECHNIQUE, TYPE OF UNMANNED AERIAL VEHICLE (UAV) AND SENSOR	<b>J.Pawliński, A. Wala &amp; P. Cwiąkała</b>	
	675	RESCUE FROM OBLIVION – ARCHAEOLOGICAL SITES DOCUMENTATION WITH 3D LASER SCANNING AND CLOSE RANGE PHOTOGRAMMETRY	<b>H. Dec, E. Puniach &amp; P. Cwiąkała</b>	
	676	TRIMBLE RTX TECHNOLOGY IN ARCHAEOLOGICAL PROSPECTION - THE USE AND EVALUATION OF GNSS PRECISION POSITIONING IN REAL TIME MEASUREMENT	<b>A. Ochałek, H. Dec &amp; E. Puniach</b>	
	677	THE PRACTICAL UTILITY OF THREE MODERN GEODETIC MEASUREMENTS METHODS USED IN DOCUMENTATION OF ARCHAEOLOGICAL EXCAVATION	<b>A. Wala, K. Widuch &amp; E. Puniach</b>	
	713	METHODS FOR THE RECORDING OF ARCHITECTURAL HERITAGE	<b>C. Pissarides</b>	
	789	DEVELOPMENT AND IMPLEMENTATION OF CONTEMPORARY TECHNIQUES AND PROCEDURES FOR MULTIPLE DOCUMENTATION OF COMPLEX RELIGIOUS MONUMENTS: THE CASE OF THE METEORA (GREECE)	<b>C. Kontopoulos, E. Georgiou, M. Chalakatevaki, S. Soile &amp; C. Ioannidis</b>	
<b>11:30 - 13:00</b>	<b>MEDRIN MEETING</b>		<b>Room: Adonis</b>	
<b>13:30 - 18:30</b>	<b>ORGANIZED TRIP - Tomb of the Kings/Archaeological Park/Paphos Castle</b>			

### Thursday, 21 March, 2019

<b>8:00 - 17:00</b>	<b>REGISTRATION</b>			
<b>9:00 - 11:00</b>	<b>Satellites</b>		<b>Chair: I. Manakos</b>	
<b>Time</b>	<b>Title</b>		<b>Authors</b>	
<b>Aphrodite Hall</b>	649	SPACE-BASED GLOBAL MARITIME AWARENESS	<b>G. Thomas</b>	
	687	DOWNSCALING MODIS LAND SURFACE TEMPERATURE TO SENTINEL-2 SPATIAL RESOLUTION IN BARRAX TEST SITE	<b>J. M. Sánchez, J. M. Galve, J. González-Piqueras, R. López-Urrea, R. Niclòs &amp; A. Calera</b>	
	688	GROUND LST MEASUREMENTS IN THE BARRAX TEST SITE FOR THE ASSESSMENT OF THE SBAC ATMOSPHERIC CORRECTION TECHNIQUE APPLIED TO LANDSAT 8-TIRS	<b>J. M. Galve, J. M. Sánchez, J. Villodre, J. González-Piqueras, C. Coll, A. Calera, R. López-Urrea &amp; R. Niclòs</b>	
	792	ANALYSIS OF THE PERFORMANCE OF DIFFERENT INTERFEROMETRIC STACKING TECHNIQUES IN MONITORING LONGWALL MINING-INDUCED GROUND MOVEMENT IN NEW SOUTH WALES, AUSTRALIA	<b>D. Kouhartsiouk &amp; S. Perdikou</b>	
	732	AN OPEN SOURCE APPROACH FOR OIL SPILL DETECTION USING SENTINEL -1 SAR IMAGES	<b>E. Konstantinidou, P. Kolokoussis &amp; K. Topouzelis</b>	
	754	LANDSAT DATA PREDICTIVE OF CHOLERA	<b>A. NM Choudry</b>	
	768	ASSESSMENT OF CHLOROPHYLL-A CONCENTRATION DERIVED FROM SENTINEL-3 SATELLITE IMAGES USING OPEN SOURCE DATA	<b>I. Moutzouris-Sidiris, K. Topouzelis &amp; E. Konstantinidou</b>	
	733	ASSESSMENT OF WET SNOW DYNAMICS ON THE TERRITORY OF URUPEMA, BRAZIL BASED ON SAR AND OPTICAL SATELLITE DATA	<b>T. Spasova &amp; R. Nedkov</b>	
	697	AUTOMATIC THRESHOLDING INUNDATION MAPPING USING SENTINEL-2 DATA AT THE CAMARGUE WETLANDS	<b>I. Manakos, G.A. Kordelas, G. Lefebvre, B. Poulin, L. Willm, A. Davranche &amp; J. Campagna</b>	
<b>11:00 - 11:30</b>	<b>COFFEE BREAK - POSTER PRESENTATIONS</b>			
<b>11:30 - 13:00</b>	<b>Urban</b>		<b>Chair: D. Borisova</b>	
<b>ID</b>	<b>Title</b>		<b>Authors</b>	
<b>Aphrodite Hall</b>	720	AUTOMATIC CLASSIFICATION OF POINT CLOUDS, OBTAINED WITH DIFFERENT AIRBORNE SENSORS IN UAV	<b>W.B. Barragán Zaque, H.A. Rondón Quintana &amp; W.D. Fernandez</b>	
	708	DERIVING LEAFLESS TREES AND URBAN STRUCTURES FROM THE DLR 3K AIRBORNE CAMERA SYSTEM FOR THE CITY OF BRAUNSCHWEIG	<b>T. Krauß</b>	
	711	MONITORING AND ANALYSIS OF URBAN INTEGRATION PROCESS BASED ON REMOTE SENSING: A CASE STUDY OF GUANGFO CITY	<b>Z. Zheng, Z. Wu, Z. Yang &amp; F. Marinello</b>	
	726	THE APPLICATION OF LIDAR DATA FOR THE SOLAR POTENTIAL ANALYSIS BASED ON URBAN 3D MODEL	<b>I. Prieto, E. Usobiaga &amp; J.L. Izgara</b>	
	682	FACTORS AFFECTING THE PRICE OF INDUSTRIAL LAND IN THE DISTRICT OF NICOSIA, CYPRUS	<b>P. Protopapas &amp; T. Dimopoulos</b>	
	683	ARTIFICIAL INTELLIGENCE FOR MASS APPRAISALS OF RESIDENTIAL PROPERTIES IN NICOSIA: MATHEMATICAL MODELLING AND ALGORITHMIC IMPLEMENTATION	<b>T. Dimopoulos &amp; N. Bakas</b>	
	699	INTERCONNECTIONS BETWEEN URBAN FORM AND CO2 EMISSIONS ASSESSED BY EDDY COVARIANCE AND REMOTE SENSING: THE CASE STUDY OF HERAKLION, GREECE	<b>S. Stagakis, K. Politakos &amp; N. Chrysoulakis</b>	
	776	MULTI-CRITERIA ANALYSIS SUSTAINABLE URBAN GROWTH : A CASE STUDY TRIKOMO	<b>C. Kara &amp; N. Akcıt</b>	
<b>13:00 - 14:30</b>	<b>Closing Ceremony</b>			

POSTER PRESENTATIONS				
POSTER ID	Title	Authors	Topic	
646	SEBAL CALIBRATION FOR INCREASING ACCURACY OF CROP EVAPOTRANSPIRATION MEASUREMENTS, UNDER MEDITERRANEAN CLIMATIC CONDITIONS	G. Papadavid, D. G. Hadjimitsis & G. Kountios	Agriculture	
667	MARINE POLLUTION ICT BASED LEARNING GAME	D. Manousos, P. Argyropaidas, I. Karatzanis, V. Kontogiannis, E. Kokinou, T. Alves, A. Nikolaidis, G. Georgiou, A. Miliou & B. Quintana	Coastal waters, oceans & large water bodies	
698	REVISION OF THE COASTLINE LENGTH OF THE AZOV SEA ACCORDING TO REMOTE SENSING DATA	V. Krylenko, M. Krylenko & A. Aleynikov		
725	CORRECTING THE BRDF EFFECTS ON SENTINEL-2 OCEAN IMAGES	M. Kremezi & V. Karathanassi		
715	IMPROVEMENTS OF THE BLACK SEA OCEANOGRAPHIC GIS	E. Zhuk	GIS	
737	SATELLITE REMOTE SENSING AS A TOOL IN DISASTER MANAGEMENT ON CULTURAL HERITAGE. A REVIEW	N. Papageorgiou & D.G. Hadjimitsis	Cultural heritage	
763	MASS DIGITIZATION OF CULTURAL HERITAGE MONUMENTS AND ARTEFACTS IN CYPRUS AND CRETE	S. Papavasileiou, C. Pittaras, C. Mettas, A. Agapiou, K. Themistocleous, E. Evagorou, D. Hadjimitsis, N. Bakirtzis, E. Sophocleous, C. Lemonakis, M. Vassalos, C. Bekiari, D. Plexousakis, P. Pouli, M. Doerr, D. Aggelakis & F. Kannaki		
735	APPLICATION OF REMOTE SENSING TECHNIQUES FOR MONITORING OF THE CLIMATIC PARAMETERS IN FOREST FIRE VULNERABLE REGIONS IN BULGARIA	E. Velizarova, R. Nedkov, D. Avetisyan, K. Radeva, A. Stoyanov, N. Georgiev & I. Gigova	Forest	
738	IDENTIFICATION AND ASSESSMENT OF PINE FOREST AREAS AFFECTED BY SNOWFALLS THROUGH SATELLITE DATA	R. Nedkov, E. Velizarova & N. Georgiev		
740	POST-FIRE FOREST DISTURBANCE MONITORING USING REMOTE SENSING DATA AND SPECTRAL INDICES	E. Velizarov, K. Radeva, A. Stoyanov, N. Georgiev & I. Gigova		
774	INTERRELATION AND INTERCHANGEABILITY OF SENTINEL-2 AND LANDSAT 8 DATA FOR BURNED AREAS MAPPING	M. Prodromou, M. Miltiadou & D.G. Hadjimitsis		
717	ASSESSMENT OF THE GROUNDWATER POTENTIAL IN THE HARD ROCK TERRAIN OF WESTERN ANTI ATLAS BELT USING REMOTE SENSING AND GIS TECHNIQUES: A CASE STUDY OF TELIMZOUNE REGION, MOROCCO	A. Jari, E.M. Bachaoui, A. Khaddari, S. Chakiri, A. Jellouli & A. El Harti	GIS	
762	A CROSS-BORDER COOPERATION FOR IMPLEMENTATION OF MARITIME SPATIAL PLANNING IN CYPRUS	D. Hadjimitsis, C. Mettas, A. Agapiou, E. Evagorou, K. Themistocleous, C. Danezis, C. Papoutsas, M. Tzouvaras, A. Nisantzi, K. Aliouris, N. Ioannou, G. Papatoma, G. Kokosis & C. Kleanthous		
791	LAND-BASED OR LANDLESS DAIRY FARMS? PRELIMINARY INSIGHTS FROM GREECE	A. Ragkos, A. Theodoridis & G. Koutouzidou	Land cover/use	
674	APPLICATION OF REMOTE SENSING AND GIS FOR DETERMINATION OF PREDICTED STATUS OF THE ECOSYSTEM/LANDSCAPE SERVICES IN CHANGING ENVIRONMENTAL CONDITIONS	D. Avetisyan & R. Nedkov		
793	DEM MODELING USING RGB-BASED VEGETATION INDICES FROM UAV IMAGES	K. Themistocleous		
663	MUDFLOW DANGER OF PERIGLACIAL LAKES IN THE ELBRUS REGION	A. Aleinikova, A. Aleinikova & N.V. Marsheva	Natural Hazards	
787	FORECASTING FIRE RISK IN THE BALKAN-MED REGION AND CYPRUS	S. Michaelides, T. Christoudias, Y. Proestos & F. Tymvios		
654	EVALUATING TEN SPECTRAL VEGETATION INDICES FOR THE IDENTIFICATION OF MILITARY UNDERGROUND STRUCTURES	G. Melillos, K. Themistocleous, A. Agapiou & D. G. Hadjimitsis	Remote Sensing	
689	OPEN SOURCE SOFTWARE DASOS: EFFICIENT ACCUMULATION, ANALYSIS AND VISUALISATION OF FULL-WAVEFORM LIDAR DATA	M. Miltiadou, N.D.F. Campbell, M. Warren, D. Clewley, D.G. Hadjimitsis & M.G. Grant		
691	MAPPING OF THE DUNE-AQUATIC LANDSCAPES OF THE VITYAZEVSAYA BAY-BAR BY REMOTE SENSING DATA	V. Kravtsova, V. Krylenko & E. Chalova		
650	THE IMPRINT OF SHALLOW SALT MOVEMENTS ON BATHYMETRIC PATTERNS FROM THE EASTERN MEDITERRANEAN	E. Kokinou & C. Panagiotakis		
748	FRACTAL PRESENTATION OF SPACE IMAGES DURING WASTE DISPOSAL SITES MONITORING	M. Kazaryan, M. Shahramanian, R. Nedkov, D. Borisova & D. Avetisyan		
760	ASTRO PI: EARTH OBSERVATION AND EDUCATION ABOARD THE INTERNATIONAL SPACE STATION	S. Trifourki, G. Cornhill, E. Anastasiou & A. Hadjiantonis		
685	POSSIBILITY OF THE UNDERWATER TOPOGRAPHY STUDYING OF ACCUMULATIVE FORMS ACCORDING TO SENTINEL-2 DATA	V. Krylenko, A. Aleynikov & M. Krylenko	Satellites	
734	EVALUATION OF TEMPERATURE CHANGES IN WASTE DISPOSAL SITES ACCORDING TO SATELLITE DATA	R. Nedkov, A. Dancheva, T. Spasova & D. Borisova		
746	MONITORING OF SOIL DEGRADATION BY THE MULTISPECTRAL DATA FROM LANDSAT OLI AND ETM + IN THE SOUTH HIGH ATLAS OF MARRAKECH (MOROCCO)	Z. Ourhzif, A. Algouti, A. Algouti & F. Hadach		
761	PERMANENT SCATTERER RADARINTERFEROMETRY AS AN EFFECTIVE STRUCTURE DEFORMATION MONITORING TOOL OVER UNDERMINED AREAS	Z. Agioutantis, J. Robertson, G. Gollaher, N. Schaefer, J. Silva, A. Tripolitsiotis & P. Partsinevelos		
741	WEB BASE EMF MONITORING IN URBAN ENVIRONMENT	L. Filchev, D. Teodosiev, R. Nedkov, D. Borisova, B. Kehayov, I. Iliev & T. Tsvetkov	Urban	
764	DRONES2GNSS: UAV ENABLED PRECISION MEASUREMENTS IN OBSTRUCTED ENVIRONMENTS	P. Partsinevelos, A. Tripolitsiotis, E.-J. Skassis, A. Antonakaki, X. Frantzis, D. Chatziparaschis, D. Trigkakakis, E. Bikos & G. Petrakis		



# Seventh International Conference

## on Remote Sensing and Geoinformation of Environment

18-21 March 2019, Paphos, Cyprus



➤ [www.cyprusremotesensing.com/rscy2019/](http://www.cyprusremotesensing.com/rscy2019/)

### IN COOPERATION WITH AND WITH THE SUPPORT OF:

- ESA (European Space Agency)
- NASA (National Aeronautics and Space Administration)
- GEO (Group on Earth Observations)
- DLR (German Aerospace Center)
- Department of Electronic Communications of the Ministry of Transport, Communications and Works
- Copernicus
- ETEK (Cyprus Scientific and Technical Chamber)
- Agricultural Research Institute
- Department of Meteorology
- Cyprus University of Technology
- Neapolis University
- European Commission
- International Society for Photogrammetry and Remote Sensing (ISPRS)
- European Cooperation in Science and Technology (COST)
- Deputy Ministry of Tourism
- ICOMOS Cyprus
- Geosystems Hellas
- Olyseus Innovations
- CyRIC
- Press and Information Office
- Copernicus Relays
- Copernicus Academy
- CopHub.AC
- MedRIN



### MEDIA PARTNERS:



remote sensing  
an Open Access Journal by MDPI



sensors  
an Open Access Journal by MDPI



sustainability  
an Open Access Journal by MDPI



geosciences  
an Open Access Journal by MDPI

### SECRETARIAT:



ISBN # 978-9963-697-33-5

© 2019

Published by the Cyprus Remote Sensing Society, Limassol, Cyprus on behalf of RSCy 2019