

12<sup>th</sup> International Conference on Remote Sensing and Geoinformation of Environment Conference

27-29 April 2026

Aliathon Holiday Village, Paphos, Cyprus

<https://rscy2026.com/>



Cyprus Remote Sensing Society



Day Time	Monday 27/04/2026	Day Time	Tuesday 28/04/2026	Day Time	Wednesday 29/04/2025																
08:30 - 09:00	Registration	08:30 - 08:45	Registration	08:30 - 08:45	Registration																
09:00 - 10:00	<p><b>Opening and Welcomes – Aphrodite HALL</b></p> <p>Prof. Diofantos Hadjimitsis, Managing Director of ECoE &amp; CUT                      H.E. Dr. Nicodemos Damianou, Deputy Minister of Research, Innovation and Digital Policy                      H.E. Dr. Dirk Roland Haupt, Minister Counselor and Deputy Chief of Mission, Embassy of Germany, Nicosia                      H.E. Mr. Arkadiusz Kłębek, Deputy Head of Mission, Embassy of Poland                      H.E. Mr. Martin Hagström, Ambassador of Sweden                      H.E. Mr. Konstantinos Kollias, Ambassador of Greece                      H.E. Dr. Krisztina Lakos, Ambassador of Hungary                      H.E. Mr. Mohamed Zaazou, Ambassador of Egypt                      H.E. Mrs Antonella Cavalari, Ambassador of Italy                      Dr. Kyriakos Themistocleous, ECoE &amp; Cyprus Remote Sensing Society                      H.E. Mr. Subhash Jangala, First Secretary (Economic Affairs), High Commission of India, Guest Talk: India in Space - Two decades of exploration</p>	08:45 - 09:15	<p><b>Keynote Speakers - APHRODITE HALL</b></p> <p>Prof. Rosa Lasaponara, CNR-IMAA, University of Basilicata                      Mr. Marcello Maranesi, founder GMATICS</p>	08:45 - 09:30	<p><b>Keynote Speakers - APHRODITE HALL</b></p> <p>Dr. Vincent G. Ambrosia, Department of Applied Environmental Sciences, College of Science, California State University – Monterey Bay                      Mr. Daniel Barok, Senior Space Consultant                      Dr. Peter Zeil, Senior consultant &amp; Co-founder Spatial Services Ltd</p>																
10:00 - 11:00	<p><b>Keynote Speakers – Aphrodite HALL</b></p> <p>Dr. Eleni Paliouras, Directorate of Earth Observation Programmes, Head of the Strategy, Programme &amp; Coordination Office (EOP-C), ESA                      Mrs. Barbara Ryan, Earth Observation Advocate                      Dr. Nektarios Chrysoulakis, Director of Research at the Foundation of Research and Technology Hellas (FORTH) – Chair of ERATOSTHENES Board of Directors                      Dr. Haris Kontoes, Research Director of National Observatory of Athens (NOA)</p>	09:15 - 11:00	<p><b>Parallel Sessions</b></p> <table border="1"> <tr> <th>ADONIS ROOM</th> <th>APHRODITE HALL</th> <th>POSEIDON ROOM</th> <th>APOLLON ROOM</th> </tr> <tr> <td>Final Workshop of the SMARTPLAIGO Project: Presentation of Results, Pilot Actions, and Next Steps</td> <td>Advancing Disaster Risk Reduction through Earth Observation and Geospatial Technologies (UN-SPIDER &amp; ECoE Workshop)  Closed Session</td> <td>5th CARBONICA Brain Gain Conference: From Diaspora Insights to Local Action: Advancing Carbon Farming for Resilient Agriculture in Cyprus</td> <td>The Earth Observation Data Ground Station in Cyprus Workshop: Strengthening Cyprus’s Role in European Earth Observation Operations</td> </tr> </table>	ADONIS ROOM	APHRODITE HALL	POSEIDON ROOM	APOLLON ROOM	Final Workshop of the SMARTPLAIGO Project: Presentation of Results, Pilot Actions, and Next Steps	Advancing Disaster Risk Reduction through Earth Observation and Geospatial Technologies (UN-SPIDER & ECoE Workshop)  Closed Session	5th CARBONICA Brain Gain Conference: From Diaspora Insights to Local Action: Advancing Carbon Farming for Resilient Agriculture in Cyprus	The Earth Observation Data Ground Station in Cyprus Workshop: Strengthening Cyprus’s Role in European Earth Observation Operations	09:30 - 11:00	<p><b>Parallel Sessions</b></p> <table border="1"> <tr> <th>ADONIS ROOM</th> <th>APHRODITE HALL</th> <th>POSEIDON ROOM</th> <th>APOLLON ROOM</th> </tr> <tr> <td>Culture Heritage</td> <td>Poster Presentations</td> <td>CAMS NCP Cyprus Workshop: Air Quality Data and Digital Platforms for Operational Use</td> <td>Space and Trustworthy AI workshop (ENFIELD)  Closed Session</td> </tr> </table>	ADONIS ROOM	APHRODITE HALL	POSEIDON ROOM	APOLLON ROOM	Culture Heritage	Poster Presentations	CAMS NCP Cyprus Workshop: Air Quality Data and Digital Platforms for Operational Use	Space and Trustworthy AI workshop (ENFIELD)  Closed Session
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20:00 - 24:00	DINNER INVITED SPEAKERS, EXCELSIOR H2020 CONSORTIUM, PARTNERS, EAB, BOD (Closed)	20:00 - 24:00	<p>Social Dinner – Konia tavern  <a href="https://maps.app.goo.gl/88DhLZeZRaU1Zse48">https://maps.app.goo.gl/88DhLZeZRaU1Zse48</a></p>	20:00 - 24:00	<p>Secretariat: </p> <p>Proc. Published: </p> <p>Sponsored by: </p>																



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# CONFERENCE AGENDA

Monday 27/4			
<b>27/4 08:30 – 09:00</b>	<b>Registration</b>		
<b>27/4 09:00 – 10:00</b> <a href="#">Meeting Link</a>	<b>Opening Session &amp; Welcomes</b>	<b>Chair: Eliana Iliofotou</b> <b>Co-chair: Georgios Christodoulou</b>	<b>Room: Aphrodite</b>
	<p>Prof. Diofantos Hadjimitsis, Managing Director of ECoE                      H.E. Dr. Nicodemos Damianou, Deputy Minister of Research, Innovation and Digital Policy                      Dr. Dirk Roland Haupt, Minister Counselor and Deputy Chief of Mission, Embassy of Germany, Nicosia                      H.E. Mr. Arkadiusz Kłębek, Deputy Head of Mission, Embassy of Poland                      H.E. Mr. Martin Hagström, Ambassador of Sweden                      H.E. Mr. Konstantinos Kollias, Ambassador of Greece                      H.E. Dr. Krisztina Lakos, Ambassador of Hungary                      H.E. Mr. Mohamed Zaazou, Ambassador of Egypt                      H.E. Mrs. Antonella Cavallari, Ambassador of Italy                      Dr. Kyriakos Themistocleous, ECoE, CUT &amp; Cyprus Remote Sensing Society                      H.E. Mr. Subhash Jangala, First Secretary (Economic Affairs), High Commission of India, Guest Talk: India in Space - Two decades of exploration</p>		
<b>27/4 10:00 – 11:00</b> <a href="#">Meeting Link</a>	<b>Keynote Session I</b>	<b>Chair: Eliana Iliofotou</b> <b>Co-chair: Georgios Christodoulou</b>	<b>Room: Aphrodite</b>
	<p>Mrs. Eleni Paliouras, Head of the Strategy, Programme &amp; Coordination Office, ESA  <i>Title: Evolution of ESA's Earth Observation Programmes post-CM25</i></p> <p>Mrs. Barbara Ryan, Earth Observation Advocate  <i>Title: Building a Globally Integrated Earth Observation System</i></p> <p>Dr. Nektarios Chrysoulakis, Director of Research at the Foundation of Research and Technology Hellas (FORTH) – Chair of ERATOSTHENES Board of Directors  <i>Title: Coupling dynamic cities and climate - the role of Earth Observation</i></p> <p>Dr. Haris Kontoes, Research Director of National Observatory of Athens (NOA)  <i>Title: "e-genesis" for Earth Intelligence: Transforming EO, AI/Gen AI and Emerging Digital Technologies into Actionable Insights for EU Policy Implementation and Strategic Decision-Making</i></p>		
<b>27/4 11:00 – 11:30 Coffee Break – POSTER PRESENTATIONS</b>			
<b>27/4 11:30 – 12:45</b> <a href="#">Meeting Link</a>	<b>Keynote Session II</b>	<b>Chair: Eliana Iliofotou</b> <b>Co-chair: Georgios Christodoulou</b>	<b>Room: Aphrodite</b>
	<p>Mrs. Usue Donezar, Project lead at the Copernicus Land Monitoring Service (CLMS) at the European Environment Agency  <i>Title: The Copernicus programme as a vector of knowledge transfer</i></p> <p>Dr. Michael Falkowski, Earth Fire Alliance  <i>Title: FireSat - From Orbit to Action: How a Global Community is Shaping the Future of Wildfire Resilience</i></p> <p>Prof. Lena Halounova, Department of Geomatics, Czech Technical University of Prague  <i>Title: Remote Sensing and AI</i></p> <p>Dr. Dirk Roland Haupt, Minister Counselor and Deputy Chief of Mission, Embassy of Germany, Nicosia  <i>Title: Seeing Without Touching, Cleaning Without Owning: Remote Sensing Law as a Launchpad for Active Space Debris Remediation</i></p> <p>Mr. Lóránt Czárán, Chief, Space Applications Section, UNOOSA  <i>Title: Space Technology and EO Data in Support of Disaster Management – The UN-SPIDER Programme</i></p>		



Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

27/4 12:45 – 13:15 <a href="#">Meeting Link</a>	<b>Panel Discussion</b>	<b>Moderator: Barbara Ryan</b> <b>Co-chair: Georgios Christodoulou</b>	<b>Room: Aphrodite</b>
	<b>Panel discussion:</b> Earth Observation Challenges and Opportunities under the Cyprus Presidency of the EU Council		
27/4 13:15 – 14:00	<b>Lunch</b>		
27/4 14:00 – 15:30 <a href="#">Meeting Link</a>	<b>Annual Excelsior H2020 Workshop: Earth Observation for Climate Change and Security Applications and Services in the Eastern Mediterranean, Middle East, and North Africa (EMMENA)</b>	<b>Chair: Diofantos Hadjimitsis</b> <b>Co-chair: Georgios Christodoulou</b>	<b>Room: Aphrodite</b>
	<b>See separate agenda</b>		
27/4 14:00 – 15:30 <a href="#">Meeting Link</a>	<b>Climate &amp; Atmosphere</b>	<b>Chair: Mahmoud Mardini</b> <b>Co-chair: George Leventis</b>	<b>Room: Adonis</b>
	<p><b>137</b> Urban Heat Island Impacts on Residential Energy Costs and CO<sub>2</sub> Emissions in Ten Greek Regional Units, Paraskevi Gkatzidou, Olga Christopoulou, Konstantinos Perakis</p> <p><b>150</b> Data-driven and intelligent modeling of atmospheric processes. Review of contemporary methods, Dimitar Makariev, Plamen Trenchev</p> <p><b>156</b> GNSS-Derived Water Vapor as a Precursor to Fluvial Flooding in Cyprus: A Case Study of Storm Byron and the Pedieos River Basin, Christina Oikonomou, Despina Giannadaki, Haris Haralambous, Vassiliki Kotroni, Costas Lagouvardos</p> <p><b>173</b> Evaluating the Lead Time of GNSS-derived Precipitable Water Vapor Jumps as a Potential Predictor for Heavy Rainfall Events in Cyprus, Christina Oikonomou, Haris Haralambous, Despina Giannadaki, Vassiliki Kotroni, Costas Lagouvardos</p> <p><b>218</b> Fishing Zone Suitability Index using Multi-Parameter Remote Sensing and Biogeochemical Analysis for the Arabian Sea, Ashwani Kumar Singh, Manoj Kumar Tiwari</p> <p><b>232</b> Spatio-Temporal Vegetation Dynamics and Climate Drivers in Cyprus: A Multi-Decadal Analysis Using Remote Sensing and Causal Inference, Felix Bachofer, Constantinos Panagiotou, Ursula Gessner, Eleni Loulli, Sophie Reinermann, Marinos Eliades, Stelios Neophytides, Diofantos Hadjimitsis</p> <p><b>262</b> AI-based downscaling framework that combines the complementary strengths of CAMS and satellite observations, Kyriakos Aristidou, Jude Brian Ramesh, Orestis Livadiotis, Konstantinos Christofi, Maria Anastasiadou, Charalambos Chrysostomou, Silas Michaelides</p>		
27/4 14:00 – 15:30 <a href="#">Meeting Link</a>	<b>Coastal, Marine &amp; Water Systems</b>	<b>Chair: George Papadavid</b> <b>Co-chair: Eleftheria Kalogirou</b>	<b>Room: Apollon</b>
	<p><b>135</b> Revolutionizing Shallow-Water OFG and SGD Research: The Role of Drones and UAS-Borne Sensors, Iliyan Kotsev, Bogdan Prodanov</p> <p><b>154</b> A Geospatial Framework for High-Resolution Coastal Mapping: Insights from the COASTLINE Project, Apostolos Papakonstantinou, Anna Atzaraki, Ermioni Papadopoulou, Athos Agapiou, Aikaterini Mazioti, Ioannis Savva, Marlen Ines Vasquez, Alessandra Capolupo, Nikos Papadopoulos, Nasos Argyriou, Savvas Varitimidiadis, Pavlos Sotiropoulos</p> <p><b>175</b> A Novel MATLAB algorithm for rapid sea surface objects detection, counting and classification in SAR images, Miroslav Tsvetkov</p> <p><b>183</b> Efficient Tile-Computing YOLOv8 Model for Near-Real-Time Ship Detection in a High-Dimensional SAR Imagery, Muhammad Amjad Iqbal, Saqib Nazir, Mansoor Iqbal, Eleftheria Kalogirou, Christodoulos Mettas, Diofantos Hadjimitsis</p> <p><b>215</b> Spatiotemporal Dynamics of Reservoir Water Volumes Using Satellite Data: A Case Study of Studena Dam (Bulgaria), Lachezar Filchev, Kamelia Radeva, Silvia Kirilova, Zlatomir Dimitrov</p> <p><b>233</b> Delineation of Geological Basement and Marine Geohazards Using Subbottom Sensing Technology at Kokkari, Samos Isl., Greece, Ivan Theophilos Petsimeris, Thomas Hasiotis, Panagiotis Karsiotis, Olympos Andreadis</p> <p><b>246</b> UAS-Based Assessment of Beach-Dune Systems along the South Bulgarian Black Sea Coast: The MapBGBeachDune Project, Iliyan Kotsev, Bogdan Prodanov, Radoslava Bekova</p> <p><b>252</b> Coral Bay: A test bed for nature-based solutions against beach erosion, Thofanis Karambas, Thomas Hasiotis, Myria Loizidi, Ivan Theophilos Petsimeris</p>		



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<p><b>27/4 14:00 – 15:30</b> <a href="#">Meeting Link</a></p>	<p><b>AI, ML &amp; Earth Observation</b></p>	<p><b>Chair: Stelios Neophytides</b> <b>Co-chair: Charalambos Chrysostomou</b></p>	<p><b>Room: Poseidon</b></p>
<p><b>143</b> GPR misinterpretations and how AI mitigates and exacerbates these issues, Michael Arvanitis  <b>163</b> A Hybrid Disaster Victim Dataset Using AI-Generated and Simulated Images for Victim Detection in Collapsed Buildings, Amir Azizi, Panayiotis Charalambous, Ali Najm, Yiorgos Chrysanthou  <b>167</b> Creating Accurate Annotation Datasets from EO and SAR imagery for Defence Applications, Vyron Antoniou, Evangelos Xynogalas, Eleni Papathanasiou, Nikolina Pappa, Christos Chousiafis  <b>171</b> Causal Machine Learning for Agricultural Yield Analysis with Earth Observation: Systematic Review and a Framework for Mediterranean Rainfed Systems, Vincenzo Schiano Di Cola, Vivek Raj, Stelios Neophytides, Michalis Mavrovouniotis  <b>199</b> Fusion of Oil Spill Detection Results from Thresholding and Deep Learning Using Landsat Data over the North Sea, Olga Schmidt, Carolin Wloczyk, Egbert Schwarz  <b>241</b> A GEE-Based Causal Machine Learning Pipeline for EO-Driven Yield Effect Estimation: Geophysical Confounding and Spatial Heterogeneity in Cyprus, Vivek Raj, Vincenzo Schiano Di Cola, Stelios Neophytides  <b>245</b> A Cloud-Native, Multi-Sensor Remote Sensing Pipeline for Regional Geothermal Reconnaissance: Joint Detection of Thermal Anomalies, Hydrothermal Alteration Zones, and Structural Corridors via Google Earth Engine and Causal Confound Removal, Vivek Raj, Vincenzo Schiano Di Cola, Stelios Neophytides  <b>226</b> Investigating the cooling efficiency of drought-tolerant vegetation as a Nature Based Solution (NBS) for urban heat resilience: The case study of Paphos, Cyprus, Christodoulos Demetriou, Stelios Neophytides, Ioannis Gitas, Nicholas Kyriakides, Diofantos Hadjimitsis, Kyriacos Themistocleous</p>			
<p><b>27/4 15:30 – 16:00</b> <b>Coffee Break – POSTER PRESENTATIONS</b></p>			
<p><b>27/4 16:00 – 17:30</b> <a href="#">Meeting Link</a></p>	<p><b>Annual Excelsior H2020 Workshop: Earth Observation for Climate Change and Security Applications and Services in the Eastern Mediterranean, Middle East, and North Africa (EMMENA)</b></p>	<p><b>Chair: Diofantos Hadjimitsis</b> <b>Co-chair: Georgios Christodoulou</b></p>	<p><b>Room: Aphrodite</b></p>
<p><b>See separate agenda</b>  <b>211</b> Human Capital, AI Readiness and STEM Capability in Earth Observation Centres of Excellence: Towards a Talent and Skills Framework for Organisational Excellence, <b>Vana Ioanna Karagianni</b>, Athanasios Drigas, Ioannis Gitas</p>			
<p><b>27/4 16:00 – 17:30</b> <a href="#">Meeting Link</a></p>	<p><b>Forestry, Fires &amp; Ecosystems</b></p>	<p><b>Chair: Menelaos Stavrinides</b> <b>Co-chair: Maria Prodromou</b></p>	<p><b>Room: Adonis</b></p>
<p><b>160</b> FPGA-Accelerated Neural Network for Wildfire Pixel Classification, Konstantinos Dionysiou, Panagiotis Antoniou, Haris Efstathiou Michail, Savvas Chatzichristofis  <b>176</b> Application of satellite data for monitoring dynamics of the Huron glacier on Livingston Island over a period of 40 years, Andrey Stoyanov, Temenuzhka Spasova, Adlin Dancheva, Miroslav Tsvetkov  <b>177</b> Monitoring of Snow Cover in High Mountain Regions of Bulgaria, <b>Temenuzhka Spasova</b>, Andrey Stoyanova, Miroslav Y. Tsvetkov, Adlin Dancheva  <b>236</b> Sat4Gaia: A land monitoring service for the Hellenic National Small-Sats Project, Polychronis Kolokoussis, V. Charalampopoulou, A. Baglatzi, D. Sykas, A. Ganas, V. Tsironi, X. Papanikolaou, N. Madonis, C. Nektarios, D. Parastatidis, D. Tsirantonakis, M. Gkolemi, Z. Mitraka, C. Ioannidis, A. Doulamis, A. Temenos, S. Verykokou, S. Soile, E. Papatheodorou, A. Kyriou, N. Argyropoulos, K. Nikolakopoulos, G.S. Vergos, K. Karalidis, M. Lamprianidou, G. Tsakoumis, V. Foteinos, C. Kontoes, S. Alatzas, J. Ioakeim, G. Christopoulos, D. Tsakou, D. Bliziotis, C. Karakizi, A.S. Oliveira, A. Muting  <b>237</b> Sat4Forest: A forest monitoring service for the Hellenic National Small-Sats Project, Polychronis Kolokoussis, I. Gitas, D. Stavrakoudis, A. Baglatzi, D. Sykas, V. Charalampopoulou, P. Kolokoussis, F. Balampanis, C. Kontoes, D. Bliziotis, C. Karakizi, A.S. Oliveira, A. Muting  <b>243</b> Deployment of Remote Sensing Databases in High Fidelity Forensic Spatio-temporal Reconstruction of WUI wildfires, Nikolaos Kamakiotis</p>			



Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

	<p><b>250</b> Disentangling landscape-specific drivers of fire severity using remote sensing and machine learning techniques, Saroj Kumar Sharma, Jagannath Aryal, Abbas Rajabifard</p> <p><b>260</b> Remote Sensing and GIS-Based Diagnostic Framework for Post-Fire Landscape Assessment in Limassol, Cyprus, Maria Prodromou, Andreas Konstantinidis, Christiana Papoutsas, Christina Ieronimidou, Christodoulos Mettas, Dimitra Gaki, Dimitris Goussios, Eleni Loulli, George Vlachos, Giannis Faraslis, Konstantinos Karatzidis, Koulla Michael, Marios Tzouvaras, Melpo Apostolidou, Menelaos Stavriniades, Prodromos Mardakis, Stavros Kazamias</p> <p><b>277</b> Mapping Greece's Forests: The National Satellite Space Project (GNSSP), Dimitris Stavrakoudis, Ioannis Z. Gitas, Michail Sismanis, Nikos Georgopoulos, Konstantinos Antoniadis, Nikolaos L. Tsakiridis, Dimitris Bliziotis, Christina Karakizi, Ana-Sofia Oliveira, Ariane Muting, Alkyoni Baglatzi</p>		
<p><b>27/4 16:00 – 17:30</b> <a href="#">Meeting Link</a></p>	<p><b>Hydrology, Floods and Water Resources</b></p>	<p><b>Chair: Georgios Kountios</b> <b>Co-chair: Muhammad Amjad Iqbal</b></p>	<p><b>Room: Apollon</b></p>
	<p><b>148</b> Hyperspectral unmixing and bio-optical classification for inland water quality monitoring: a multi-cube AVIRIS-NG analysis of Lake Trasimeno, Muhammad Zaid Qamar, Cristiano Ciccarelli, Mohammed Ajaoud, Massimiliano Lega</p> <p><b>152</b> Calibration, Validation and Implementation of a WRF-Hydro Flash-Flood Forecasting System over the Koiliaris Basin (Crete, Greece), Vassiliki Kotroni, Christos Giannaros, Kostas Lagouvardos, Antonis Bezes, Christina Oikonomou, Haris Haralambous</p> <p><b>229</b> A Satellite-Based Validation of Reservoir Water Capacity at Mavrokolympo Dam: A Follow-Up Study, Demetris Christofi, Evagoras Evagorou, Christodoulos Mettas, Neophytos Stylianou, Diofantos Hadjimitsis</p> <p><b>235</b> The Golden Twins, Polychronis Kolokoussis, A. Papadaki, V. Charalampopoulou, C. Kontopoulos, P. Kolokoussis, G. voskopoulos, G. Daskalopoulos, K. Mpotonakis, M. Michalas, N.-A. Livanos, C. Ioannidis, D. Stavrakoudis, V. Lappas, A. Paschalis</p> <p><b>271</b> The MAR agreements: A new governance approach for advancing the MAR implementation, Constantinos Panagiotou, Catalin Stefan</p> <p><b>273</b> Cross-Border Cooperation for Monitoring and Evaluation of Maritime Spatial Planning, Eleftheria Kalogirou, Maria Prodromou, Petros Antoniou, Despoina Makri, Evagoras Evagorou, Kyriacos Aliouris, George Kokkosis, Andriana Hadjikyriacou, Eleni Lalou, Anna Spyropoulou, Panos Manetos, Michail Vaitis, Nikolaos Soulakellis, Georgios Tsilimigkas, Georgios Tataris, Stelios Katsanevakis, Gerasimos Pavlogeorgatos, Christodoulos Mettas, Diofantos Hadjimitsis</p> <p><b>278</b> Interannual Dynamics of Vegetation and Environmental Quality in Mediterranean Coastal Ecosystems Using Remote Sensing Indices, Mgdalini Angeli, Georgios Lampropoulos, Styliani Koukosoula, Vasiliki Manaridou, Christina Musacchio, Nerantzia Tzortzi, Dimitrios D. Alexakis</p>		
<p><b>27/4 16:00 – 17:30</b> <a href="#">Meeting Link</a></p>	<p><b>AI, ML &amp; Earth Observation</b></p>	<p><b>Chair: Stelios Neophytides</b> <b>Co-chair: Michalis Mavrovouniotis</b></p>	<p><b>Room: Poseidon</b></p>
	<p><b>146</b> Land consolidation and LLMs: implications for statutory interpretation and governance, Demetris Demetriou</p> <p><b>162</b> Multiple Exposures in Cabo Delgado, Mozambique: How Civil Conflict and Cyclones Alter Cultivated Land Use Patterns, Lauren Herwehe</p> <p><b>164</b> Large Language Model Driven Named Entity Recognition for Soil and Land Information Extraction in the EMMENA Region, Premkumar Borugadda, Ioannis Varvaris, Diofantos Hadjimitsis</p> <p><b>168</b> AI-driven multi-satellite orbit prediction model for improved Earth Observation and disaster response, Shimrit Maman, Yoav Gvili, Noam Cohen Shvartzberg, Oded Koren</p> <p><b>169</b> Detecting Unauthorized Constructions from Aerial Imagery Using Deep Learning Model and Cadastral Data, Mariam Petrosyan, Vahagn Muradyan, Gevorg Manukyan, Davit Hakhverdyan, Ani Tovmasyan, Anush Margaryan</p> <p><b>221</b> Low-Interaction Post-Disturbance Mapping for UAV/Satellite Optical Imagery Using Tile Scoring and Prompted Segmentation, Mansoor Iqbal, Muhammad Amjad Iqbal, Charalambos Chrysostomou, Michalis Mavrovouniotis</p> <p><b>234</b> BorderForce: Flexible system extending automated border surveillance by increased situational awareness adaptable to uncertain times with unforeseen events, Polychronis Kolokoussis, <b>L. Panagiotopoulou</b>, A. Papageorgiou, V. Charalampopoulou, A. Kriechbaum-Zabini, G. Boultradakis, C. Antoniou, M. Mavrovouniotis, M. Tzouvaras, L. Salmela</p> <p><b>239</b> THEIA: Enhancing Copernicus Security services – EU governmental crisis management hub for forced population displacement, Polychronis Kolokoussis, <b>L. Panagiotopoulou</b>, A. Papageorgiou, M. Michalas, P. Kolokoussis, V. Charalampopoulou, J. Santos, J. Romero, I. Burgstaller, A. Kriechbaum-Zabini, G. Boultradakis, V. Antoniou, J. Lopez-Guzman, D. Röhr, T. Egido, B. Stępień, A. Urbas</p>		



Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

Tuesday 28/4			
<b>28/4 08:30 – 08:45</b>	<b>Registration</b>		
<b>28/4 08:45 – 09:15</b> <a href="#">Meeting Link</a>	<b>Keynote Session III</b>	<b>Chair: Georgios Christodoulou</b> <b>Co-chair: Andreas Christofe</b>	<b>Room: Aphrodite</b>
	<p>Prof. Rosa Lasaponara, CNR-IMAA, University of Basilicata <i>Title: From Space to Ecosystems, from Single Trees to the Global Scale: Multi-temporal, Multi-sensor, and Multi-scale Monitoring of Vegetation Stress</i></p> <p>Mr. Marcello Maranesi, founder GMATICS <i>Title: Geospatial Applications Leveraging Earth Observation - From Research &amp; Development to Operational Services</i></p>		
<b>28/4 09:15 – 11:00</b> <a href="#">Meeting Link</a>	<b>Advancing Disaster Risk Reduction through Earth Observation and Geospatial Technologies (UN-SPIDER &amp; ECoE) Closed</b>	<b>Chair: Marios Tzouvaras</b> <b>Co-Chair: Christodoulou Mettas</b>	<b>Room: Aphrodite</b>
	See separate agenda		
<b>28/4 09:15 – 11:00</b> <a href="#">Meeting Link</a>	<b>Final Event of the SMARTPLAIGO Project: Presentation of Results, Pilot Actions, and Next Steps</b>	<b>Chair: Maria Anastasiadou</b> <b>Co-chair: Neofytos Kokkinos</b>	<b>Room: Adonis</b>
	See separate agenda		
<b>28/4 09:15 – 11:00</b> <a href="#">Meeting Link</a>	<b>The Earth Observation Data Ground Station in Cyprus: Strengthening Cyprus's Role in European Earth Observation Operations</b>	<b>Chair: Kyriacos Themistokleous</b> <b>Co-chair: Nikos Christoforou</b>	<b>Room: Apollon</b>
	<p>See separate agenda</p> <p>281 Enhancing Earth Observation Capacity in Cyprus with a 9 m S/X/Ka-Band Antenna, Kyriacos Themistokleous, <b>Nikos Christoforou</b>, Egbert Schwarz, Christos Dimou, Valentinos Evripidou, Neal Beckett, Sotiris Alexandrou, Costas Agrotis, Gunter Schreier</p>		
<b>28/4 09:15 – 11:00</b> <a href="#">Meeting Link</a>	<b>5th CARBONICA Brain Gain Conference: From Diaspora Insights to Local Action: Advancing Carbon Farming for Resilient Agriculture in Cyprus</b>	<b>Chair: Christiana Papoutsas</b> <b>Co-chair: George Papadavid</b>	<b>Room: Poseidon</b>
	See separate agenda		
<b>28/4 11:00 – 11:30</b>	<b>Coffee Break – POSTER PRESENTATIONS</b>		
<b>28/4 11:30 – 13:00</b> <a href="#">Meeting Link</a>	<b>Addressing Coastal Erosion and Flooding of Beaches with Tourist and Ecological Importance Using Environmentally</b>	<b>Chair: Christodoulos Mettas</b> <b>Co-Chair: Marios Tzouvaras</b>	<b>Room: Aphrodite</b>



Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

	<b>Friendly Methods in Light of Climate Change (ECO-BEACHTECH)</b> Closed		
	See separate agenda		
<b>28/4 11:30 – 13:00</b> <a href="#">Meeting Link</a>	<b>Final Event of the SMARTPLAIGO Project: Presentation of Results, Pilot Actions, and Next Steps</b>	<b>Chair: Maria Anastasiadou</b> <b>Co-chair: Neofytos Kokkinos</b>	<b>Room: Adonis</b>
	See separate agenda		
<b>28/4 11:30 – 13:00</b> <a href="#">Meeting Link</a>	<b>Space and Trustworthy AI workshop (ENFIELD)</b> Closed	<b>Chair: Michalis Mavrovouniotis</b> <b>Co-chair: Stelios Neophytides</b>	<b>Room: Apollon</b>
	See separate agenda		
<b>28/4 11:30 – 13:00</b> <a href="#">Meeting Link</a>	<b>Integrated Plant Health, Pest Management and Preparedness for Food Security</b>	<b>Chair: Menelaos Stavriniades</b> <b>Co-chair: Maria Prantsidou</b>	<b>Room: Poseidon</b>
	<p><b>182</b> Who Owns What You See from Space? Remote Sensing and Data Rights, <b>Michael Chatzipanagiotis</b></p> <p><b>186</b> Monitoring the Phenological Cycle of Olive (cv. 'Koroneiki') Using High-Resolution Satellite Time Series: A Region-Specific Transferable Approach, <b>Thrasivoulos Stylianou</b>, Ashish Kallikkattil Kuruvila, Marianna Hadjichristodoulou, Volha Dubovik, Eleni Loulli, Francisco Rovira-Más, Loukas Kanetis, Menelaos Stavriniades, Diofantos Hadjimitsis, Christiana Papoutsas</p> <p><b>188</b> Monitoring Cropland Recovery After Flooding Using Multi-Sensor Satellite Time Series: Case Study for the Lake Karla Basin, Greece, <b>Marios Hadjipanagi</b>, Christos Theocharides, Christiana Papoutsas, Afroditi Athanasiou, Antonis Mavroeidis, Panagiotis Trivellas, Nikolaos Nikoloudakis, Andreas Katsiotis</p> <p><b>205</b> A Socio-Economic Decision-Support Tool for Sustainable Agricultural Policy, <b>Daria Loginova</b>, Sabine Hoidn, Ioannis Varvaris, Stefan Mann</p> <p><b>224</b> High-Resolution Satellite Mapping of Citrus Orchards: Tree Detection and Canopy Cover Assessment, <b>Ashish Kallikkattil Kuruvila</b>, Marianna Hadjichristodoulou, Thrasos Stylianou, Diofantos Hadjimitsis, Eleni Loulli, Menelaos Stavriniades, Volha Dubovik, Iason Tsardanidis, Ilias Tsoumas, Christiana Papoutsas</p> <p><b>227</b> SAR-Based Change Detection of the February 2026 Evros Floods (Greece) in Google Earth Engine with PlanetScope Integration for Agricultural Impact Assessment, <b>Christos Theocharidis</b>, Christiana Papoutsas, Marios Hadjipanayi, Afroditi Athanasiou, Antonis Mavroeidis, Panagiotis Trivellas, Nikolaos Nikoloudakis, Andreas Katsiotis</p> <p><b>244</b> A Low-Code Paradigm for Rapid Development of Cyber-Physical Applications in the Food Security Domain: The Nostradamus Approach, <b>Konstantinos Panayiotou</b>, Emmanouil Tsardoulas, Theodoros Tsampouris, Ioannis Gkountras, Themistoklis Diamantopoulou, Andreas Symeonidis</p> <p><b>259</b> Exploring the Relationship Between Sentinel-2 Vegetation Indices and Microclimate Variability in a Citrus Orchard, <b>Marianna Hadjichristodoulou</b>, Ashish Kallikkattil Kuruvila, Thrasos Stylianou, Volha Dubovik, Eleni Loulli, Francisco Rovira-Más, Marinos Eliades, Menelaos Stavriniades, Diofantos Hadjimitsis, Christiana Papoutsas</p> <p><b>266</b> Nostradamus enabling data-driven sustainable agriculture in Europe through interoperable Data Cubes and multi-actor digital innovation, <b>Ioannis Varvaris</b>, Stelios Neophytides, Menelaos Stavriniades, Stavroula Dimitriadi, Eleni Loulli, Thrasos Stylianou, Thomaida Polydorou, Diofantos Hadjimitsis</p>		
<b>28/4 13:00 – 14:00</b>	<b>Lunch</b>		
<b>28/4 14:00 – 15:30</b> <a href="#">Meeting Link</a>	<b>Industry Session: Earth Observation and Space Applications</b>	<b>Moderator: Christian Gihl</b> <b>Co-chair: Andreas Andreou</b>	<b>Room: Aphrodite</b>
	See separate agenda		



Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

<p><b>28/4 14:00 – 15:30</b> <a href="#">Meeting Link</a></p>	<p><b>Epidemics and Health &amp; Urban, GIS &amp; Built Environment</b></p>	<p><b>Chair: Galatia Photiou</b> <b>Co-chair: Neophytos Stylianos</b></p>	<p><b>Room: Adonis</b></p>
	<p><b>196</b> Short-Term Effects of Air Pollution and Temperature on Arterial Stiffness: Findings from the DEpICT Study, Galatia Photiou, Andrie G. Panayiotou, Nicos Middleton, Neophytos Stylianos  <b>198</b> GIS in Strategic Health Service Planning: A Systematic Review of Access-Oriented Applications in Primary Care, Neophytos Stylianos, Galatia Photiou, Evagoras Evagorou, Christodoulos Mettas  <b>202</b> Satellite data and GIS in monitoring air pollution and respiratory diseases, Milen Chanev, Georgi Jeleu, Plamen Trenchev, Maria Dimitrova, Mokhammad Cahyadi, Lachezar Filchev  <b>220</b> Grid-Based Machine Learning for Forecasting Accident Risk and Supporting EMS Planning in Cyprus, Mansoor Iqbal, Stelios M. Mappouras, Michalis Gemenaris, Georgia D. Liapi, Charalambos Chrysostomou, Maria N. Anastasiadou, Efthymoulos Kyriacou</p> <p>-----</p> <p><b>147</b> InSAR-Derived Surface Deformation and Damage Assessment of the 2019 Mirpur Earthquake, Muhammad Mutahir Ahmad  <b>210</b> Long Life Learning Courses building Advanced Skills for Climate-Resilient Land Management: Insights from the GPSEducation Project, Marzia Gabriele, Raffaella Brumana, Mariame CHAHBI, Maryam MAZOUZ  <b>251</b> Translating Remote Sensing Research into Commercial Opportunity: The RustAlertSystem Case, Marina Doukanari, Andreas Christofe, Andreas Anayiotos, Diofantos Hadjimitsis</p>		
<p><b>28/4 14:00 – 15:30</b> <a href="#">Meeting Link</a></p>	<p><b>Space and Trustworthy AI workshop (ENFIELD) Closed</b></p>	<p><b>Chair: Michalis Mavrovouniotis</b> <b>Co-chair: Stelios Neophytides</b></p>	<p><b>Room: Apollon</b></p>
	<p>See separate agenda</p>		
<p><b>28/4 14:00 – 15:30</b> <a href="#">Meeting Link</a></p>	<p><b>Living Labs Cultivating Soil and Water Resilience through Innovation for Sustainable Agriculture</b></p>	<p><b>Chair: Ioannis Varvaris</b> <b>Co-chair: Marinos Eliades</b></p>	<p><b>Room: Poseidon</b></p>
	<p><b>207</b> Land-Use Composition and Socio-Economic Dynamics in Sub-Saharan Africa: Evidence from the AfroGrow Project Countries, <b>Daria Loginova</b>  <b>208</b> Assessing the spatial transferability of GEDI-AlphaEarth Embedding-based biomass models from Kenya to AfroGrow Living Lab Landscapes, <b>Dhouha Ouerfelli</b>, Youssef Nadhyf, Ioannis Varvaris, Diofantos Hadjimitsis  <b>238</b> Alternative crops and sustainable agriculture, Polychronis Kolokoussis, A. Syridou, A. Kollia, V. K. Drosos  <b>240</b> DigiFarm: Assessing Digital Training Needs of Agricultural Advisors in Europe, <b>Maria Prantsidou</b>, A. Iachetti, M. Hadjichristodoulou, T. Stylianos, E. Loulli, C. Papoutsas, D. Hadjimitsis, S. Papadopoulos, S. Theodoridis, D. Bormpoudakis, C. Kontoes, A. Tsafara, D. Argyropoulos, M. Stavriniades  <b>249</b> Carbon Farming Practices in Cereal Crops: Effects of Compost and Straw Application on Soil Health, <b>Stavroula Dimitriadi</b>, Maria Prantsidou, Michalakis Christoforou, Styliana Efstathiou, Diofantos Hadjimitsis, George Papadavid, Menelaos Stavriniades, Marios Tzouvaras, Christiana Papoutsas  <b>264</b> AfroGrow transforming AU agroforestry systems through Living Labs and FNSSA-driven business model innovation, <b>Ioannis Varvaris</b>, Zampela Pittaki, Dhouha Ouerfelli, Youssef Nadhyf, Roland Richard Sier, Diofantos Hadjimitsis  <b>265</b> Nemesis Soil Health Living Labs for Combating Desertification in Mediterranean Landscapes, <b>Ioannis Varvaris</b>, Dhouha Ouerfelli, Youssef Nadhyf, Dimitrios Koumoulidis, Eleni Neofytou, Marinos Eliades, Orestis Rizopoulos, Valeria Tsiros, Diofantos Hadjimitsis  <b>267</b> An Event-Driven AI Architecture for Transforming Heterogeneous Food System Data into Policy Intelligence, <b>Athanasios Michailoudis</b>, Themistoklis Diamantopoulos, Dimitrios-Nikitas Nastos, Andreas Symeonidis</p>		
<p><b>28/4 15:30 – 16:00</b></p>		<p><b>Coffee Break– POSTER PRESENTATIONS</b></p>	



Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

<p>28/4 16:00 – 17:30 <a href="#">Meeting Link</a></p>	<p><b>Space BIC: Advancing Space Entrepreneurship under Cyprus EU Presidency</b></p>	<p><b>Moderator: Eleni Loulli</b> <b>Co-chair: Andreas Andreou</b></p>	<p><b>Room: Aphrodite</b></p>
<p>See separate agenda</p>			
<p>28/4 16:00 – 17:30 <a href="#">Meeting Link</a></p>	<p><b>Urban, GIS &amp; Built Environment (3D-TWINMAP)</b></p>	<p><b>Chair: Marios Tzouvaras</b> <b>Co-chair: Neofytos Kokkinos</b></p>	<p><b>Room: Adonis</b></p>
<p><b>282</b> Mobile 3D Mapping capabilities for Digital Twin Development by ERATOSTHENES Centre of Excellence: The 3D-TWINMAP project, <b>Marios Tzouvaras</b>  <b>147</b> InSAR-Derived Surface Deformation and Damage Assessment of the 2019 Mirpur Earthquake, Muhammad Mutahir Ahmad  <b>153</b> Statistical modelling of urban objects from noisy and low-resolution satellite imagery, Thomas Krauss  <b>158</b> GIS-Based Digital Transformation: A Methodology for Bureaucratic Burden Reduction, Nikolaos Xagoraris, Christodoulos Mettas, Neophytos Stylianou, Ioannis Gitas, Diofantos Hadjimitsis  <b>187</b> Automating Urban Planning Workflows with LLMs: The Case of Nork-Marash, Yerevan, Mariam Petrosyan, Suren Tovmasyan, Davit Khanaghyan  <b>253</b> Bridging Field Data and Decision-Making: A Municipal GIS Platform for Asset and Process Management, Themistoklis Roustanis, Petros Patias, Neophytos Stylianou, Evagoras Evagorou, Georgios Konstantinos Nestoras, Tereza Aristeidou, Zina Andreou, Nikolaos Markou, Christodoulos Mettas  <b>254</b> An Integrated Geospatial Information System for Asset and Process Management in Local Government: Design and Implementation for the Limassol District, Themistoklis Roustanis, Petros Patias, Neophytos Stylianou, Evagoras Evagorou, Georgios Konstantinos Nestoras, Christina Papadopoulou, Eleni Mappouridou, Christodoulos Mettas  <b>257</b> Deep Learning-Based Building Change Detection from Very High Resolution Orthophotos in Urban and Peri-Urban Environments, Themistoklis Roustanis, Petros Patias, Charalampos Georgiadis, Sevasti Chalkidou</p>			
<p>28/4 16:00 – 17:30 <a href="#">Meeting Link</a></p>	<p><b>Space and Trustworthy AI workshop (ENFIELD) Closed</b></p>	<p><b>Chair: Michalis Mavrovouniotis</b> <b>Co-chair: Stelios Neophytides</b></p>	<p><b>Room: Apollon</b></p>
<p>See separate agenda</p>			
<p>28/4 16:00 – 17:30 <a href="#">Meeting Link</a></p>	<p><b>Connecting Atmosphere, Land Use and Solar Dynamics for Climate-Resilient Landscapes</b></p>	<p><b>Chair: Rodanthi Elisavet Mamouri</b> <b>Co-chair: Ioannis Varvaris</b></p>	<p><b>Room: Poseidon</b></p>
<p><b>149</b> Spatial Patterns of Urban Sprawl in the Larnaca Metropolitan Area Using Landscape Metrics and the GLAD Global Land Cover and Land Use Change dataset, <b>Dimitrios Koumoulidis</b>, Ioannis Varvaris, Diofantos Hadjimitsis  <b>165</b> Climate-informed spatial prioritization for the conservation of Emys orbicularis in Greece, Youssef Nadhyf, Dhouha Ouerfelli, Ioannis Varvaris, Antonios D. Mazaris, Diofantos Hadjimitsis  <b>170</b> Evaluating EarthCARE's MSI and ATLID Aerosol Products Against Ground-Based Sunphotometer and Lidar Observations, <b>Aspasia Pallikaridou</b>, Georgios Kotsias, Rodanthi Elisavet Mamouri, Kyriaki Papachristopoulou, Stelios Kazadzis  <b>206</b> Land-Use Change and Socio-Economic Outcomes: A Global Longitudinal Assessment, <b>Daria Loginova</b>, Stefan Mann, Sabine Hoidn, Ioannis Varvaris  <b>225</b> Wildfire smoke cases detected by the PollyXT Lidar at the CARO Limassol station: EarthCARE capabilities for detecting Smoke, <b>Maria Poutli</b>, Hossein Panahifar, George Kotsias, Diofantos Hadjimitsis, Moritz Haarig, Rodanthi-Elisavet Mamouri  <b>228</b> The influence of agrometeorological factors on irrigated Citrus trees, <b>Marinos Eliades</b>, Constantinos Panagiotou, Ioannis Varvaris, Eleni Neofytou, Stelios Neophytides  <b>247</b> Layer-Resolved Retrieval of 3-Mode Aerosol Optical and Microphysical Properties Using GRASP Lidar-photometer synergy in Limassol, Cyprus, <b>Athina Savva</b>, Konstantinos Chrysostomou, Anton Lopatin, Diofantos Hadjimitsis, Rodanthi-Elisavet Mamouri</p>			



Cyprus  
Remote Sensing  
Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

	<p><b>248</b> High-Resolution Validation of MONARCH Dust forecasts during strong dust episodes: Leveraging EarthCARE ATLID and CARO NF measurements, <b>Konstantinos Chrysostomou</b>, George Kotsias, Emanuele Emili, Tito Vintimilla Santiago Cruz, Maria Poutli, Diofantos Hadjimitsis, Rodanthi-Elisavet Mamouri</p>
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Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

Wednesday 29/4			
29/4 08:45 – 09:30 <a href="#">Meeting Link</a>	<b>Keynote Session IV</b>	<b>Chair: Georgios Christodoulou</b> <b>Co-chair: Andreas Christofi</b>	<b>Room: Aphrodite</b>
	<p>Dr. Vincent G. Ambrosia, Adjunct Faculty Member in the Department of Applied Environmental Sciences, College of Science, California State University – Monterey Bay (online) Title: The Times, They Are a'Changin'": History and Outlook for U.S. Earth Observations Missions and Programs</p> <p>Mr. Daniel Barok, Vice President for Business Development at Powder Fuels and representative of HawkEye 360 in Israel Title: Things we can do on Earth and we can do much better in Space</p> <p>Dr. Peter Zeil, Senior consultant &amp; Co-founder Spatial Services GmbH Title: Africa &amp; Europe Space Partnership</p>		
29/4 09:30 – 11:00 <a href="#">Meeting Link</a>	<b>Poster Presentations</b>	<b>Chair: Georgios Christodoulou</b> <b>Co-chair: Andreas Christofi</b>	<b>Room: Aphrodite</b>
	<b>See separate agenda</b>		
29/4 09:30 – 11:00 <a href="#">Meeting Link</a>	<b>Culture Heritage</b>	<b>Chair: Dante Abate</b> <b>Co-chair: Maria Cristina Salvi</b>	<b>Room: Adonis</b>
	<p><b>179</b> From Historical Maps to Satellite Data: A Methodology for Coastal Change Analysis in the CHANGES Project, Konstantinos Roussos, Andreas Livadiotis, Christodoulos Dimitriou</p> <p><b>213</b> Remote sensing for archaeological site monitoring in Africa: Barriers and solutions, Friederike Jürcke, Ahmed Mahmoud, Stefania Merlo, Paul Lane</p> <p><b>217</b> Accuracy evaluation of Transformer-based 3D Reconstruction Compared to Photogrammetry for the 3D survey of Archaeological Sites, Panayiotis N. Panayiotou, Andreas Livadiotis, Dante Abate</p> <p><b>263</b> A Methodological Framework for Monitoring Burial Sites using Remote Sensing and Geostatistical Data Fusion Within the EXCALIBUR Project, Konstantinos Roussos, Georgios Leventis, Dante Abate, Eleftherios Anastasovitis, Georgia Georgiou, Spiros Nikolopoulos, Kyriakos Themistocleous, Chrysanthos Pissarides</p> <p><b>272</b> HeritEdge-AI: A Cultural Heritage-Centered, Audit-Ready Mobile-Web Workflow for Municipal Exposure Inventories and Seismic Vulnerability Mapping, Carlo Andrea Castiglioni, Napoleon Papoutsakis, Nikolaos Schetakakis, George Xekalakis, Barbara Charalambidi, Petros Christou, Georgios Stavroulakis, Alessio Di Iorio, Julia Nerantzia Tzortzi, Rita Maria Cristina Luigia Musacchio</p>		
29/4 09:30 – 11:00 <a href="#">Meeting Link</a>	<b>Space and Trustworthy AI workshop (ENFIELD) Closed</b>	<b>Chair: Michalis Mavrovouniotis</b> <b>Co-chair: Stelios Neophytides</b>	<b>Room: Apollon</b>
	<p><b>See separate agenda</b></p> <p><b>157</b> An Unsupervised Autoencoder pipeline for Coastal and Reservoir change detection using Sentinel-2 Multispectral Imagery, Kyriakos Aristidou, Charalambos Chrysostomou, Konstantinos Christofi, Diofantos G. Hadjimitsis, Michalis Mavrovouniotis</p> <p><b>200</b> Optimizing Sentinel-2 Spectral Bands for Marine Debris Detection with Random Forests, Konstantinos Christofi, Charalambos Chrysostomou, Kyriakos Aristidou, Diofantos Hadjimitsis</p>		
29/4 09:30 – 11:00 <a href="#">Meeting Link</a>	<b>CAMS NCP Cyprus: Air Quality Data and Digital Platforms for Operational Use</b>	<b>Chair: Maria Anastasiadou</b> <b>Co-chair: Neofytos Kokkinos</b>	<b>Room: Poseidon</b>
	<b>See separate agenda</b>		
29/4 11:00 – 11:30	<b>Coffee Break– POSTER PRESENTATIONS</b>		



Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

<p>29/4 11:30 – 13:00 <a href="#">Meeting Link</a></p>	<p><b>Ionosphere, Cosmic Rays and GNSS</b></p>	<p><b>Chair: Silas Michaelides</b> <b>Co-chair: Georgios Christodoulou</b></p>	<p><b>Room: Aphrodite</b></p>
<p><b>138</b> Association Between Spread-F and Spread-Es in the Midlatitude Ionosphere, Krishnendu Sekhar Paul, Haris Haralambous  <b>139</b> Large-Scale Ionospheric Disturbances During the November 2025 Geomagnetic Storm from Swarm and TEC Observation, Krishnendu Sekhar Paul, Haris Haralambous  <b>141</b> Assessment of Galileo Single-Frequency Posing Algorithm over Nicosia Under March 2023 Geomagnetic Storm Conditions, Trisani Biswas, Vasilis Petrou, Haris Haralambous  <b>142</b> Dynamics of Amplitude and Phase Scintillation Through Multi-Year Observation from Cyprus, Trisani Biswas, Haris Haralambous  <b>144</b> Bridging the Scale Gap in Earth Observation: Using Particle Detector Networks as a Novel Remote Sensing Data Source for Atmospheric Monitoring, Nuhcan Akçit, Bugra Bilin  <b>174</b> LST extraction using machine learning and SDGSat-1 high resolution thermal data, Vassiliki Tomara, Demetris Stathakis  <b>172</b> Quantum Fourier Transform for velocity estimation in Multi-Temporal SAR Interferometry: validation on Sentinel-1 data, Vincenzo Schiano Di Cola, Alberto Morea, Graziana Lopetuso, Marco Berardi, Cosmo Lupo, Francesco V. Pepe, Raffaele Nutricato  <b>189</b> Uncertainty and information content of satellite-observed tropospheric no<sub>2</sub> in earth system digital twins: a monte carlo and information-theoretic framework. Dimitar Makariev, Plamen Trenchev</p>			
<p>29/4 11:30 – 13:00 <a href="#">Meeting Link</a></p>	<p><b>Culture Heritage</b></p>	<p><b>Chair: Dante Abate</b> <b>Co-chair: Maria Cristina Salvi</b></p>	<p><b>Room: Adonis</b></p>
<p><b>201</b> Mapping Heritage Vulnerability in Limassol, Cyprus: An Unsupervised Learning Approach to Quantifying Spatial and Environmental Conflict Between Commercial Gentrification and Cultural Preservation Using Sentinel-5P, Georgios Leventis, Diofantos Hadjimitsis  <b>216</b> RECHBib: Bibliographic database for Remote Sensing and Cultural Heritage studies in the Eastern Mediterranean, Middle East, and North Africa (EMMENA), Mahmoud Mardini, Christodoulos Dimitriou, Dante Abate  <b>219</b> Protecting Cultural Heritage from Space: The SATCULT Project, Maria Cristina Salvi, Dante Abate, Karin Drda-Kühn, Johanna Leissner, Nicola Masini, Nicodemo Abate  <b>223</b> Next-Generation Remote Sensing: Leveraging 5D Spatio-Temporal Data and Integrated Intelligence for Cultural Heritage Protection in Greece, Magdalini Angeli, George Lampropoulos, Alexandros Makris, Anastasios Roussos, Dimitris D. Alexakis  <b>280</b> Climate-Resilient Protection of Cultural Heritage on Unstable Terrain: The case study of Choirokoitia, Cyprus, Kyriacos Themistokleous</p>			
<p>29/4 11:30 – 13:00 <a href="#">Meeting Link</a></p>	<p><b>Space and Trustworthy AI workshop (ENFIELD) Closed</b></p>	<p><b>Chair: Michalis Mavrovouniotis</b> <b>Co-chair: Stelios Neophytides</b></p>	<p><b>Room: Apollon</b></p>
<p>See separate agenda</p>			
<p>29/4 11:30 – 13:00 <a href="#">Meeting Link</a></p>	<p><b>CAMS NCP Cyprus: Air Quality Data and Digital Platforms for Operational Use</b></p>	<p><b>Chair: Maria Anastasiadou</b> <b>Co-chair: Neofytos Kokkinos</b></p>	<p><b>Room: Poseidon</b></p>
<p>See separate agenda</p>			
<p>29/4 13:00 – 14:00</p>	<p><b>Closing Ceremony</b> <b>Conference results and awards</b></p>	<p><b>Chair: Diofantos Hadjimitsis</b> <b>Co-chair: Andreas Christofi</b></p>	<p><b>Room: Aphrodite</b></p>
<p>29/4 14:00 – 18:00 <b>Lunch &amp; Excursion</b></p>			



Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

Poster Presentations

29/4 09:30 – 11:00 <a href="#">Meeting Link</a>	Poster Presentations	Chair: Georgios Christodoulou Co-chair: Andreas Christofi	Room: Aphrodite
	<p><b>151</b> Digital Readiness and Innovation Attitudes as Determinants of Farmers’ Training Needs in Remote Sensing and Geoinformatics: A Case Study of Imathia Prefecture, Greece, Evangelia Gianneli, Georgios Kountios, Georgios Papadavid</p> <p><b>155</b> Enhancing High-Impact Rainfall Forecasts through Multi-Sensor Data Assimilation in WRF: Insights from the CYGMEN Project, Vassiliki Kotroni, Antonis Dimitrelos, Athanasios Karagiannidis, George Gragkoulidis, Christos Giannaros, Kostas Lagouvardos, Christina Oikonomou, Haris Haralambous</p> <p><b>159</b> UAV Remote Sensing of Watermelon under Different Irrigation Regimes: Non-Parametric Modelling of Crop Biophysical Variables, Iliana Kamenova, Petar Dimitrov, Dessislava Ganeva, Rositsa Cholakova, Lachezar Filchev, Iskren Ivanov, Ivanka Tringovska, Daniela Ganeva, Stanislava Grozeva</p> <p><b>160</b> FPGA-Accelerated Neural Network for Wildfire Pixel Classification, Konstantinos Dionysiou, Panagiotis Antoniou, Haris Efstathiou Michail, Savvas Chatzichristofis</p> <p><b>161</b> Earth observation–based monitoring and early-warning system for vegetation stress and drought conditions, Christina Eisfelder, Juliane Huth, Patrick Sogno, Felix Bachofer</p> <p><b>166</b> Detecting Illegal Water Abstractions Using Earth Observation and Artificial Intelligence: Challenges, Research Gaps, and Future Directions, Elena Kakoulli, Tasos Antoniadis, Stelios Neophytides</p> <p><b>178</b> Spatiotemporal Soil Erosion Assessment Projections on the Cultural Heritage Sites under Different Climate Change Scenarios: The Case Study of Amathus, Cyprus, Nikoletta Papageorgiou, Diofantos Hadjimitsis, Chris Danezis, Rosa Lasaponara</p> <p><b>180</b> Single Ionogram Detection of Ionospheric Irregularities, Haris Haralambous, Krishnendu Paul</p> <p><b>181</b> Ionospheric signatures excited by recent earthquakes, Haris Haralambous, Trisani Biswas, Krishnendu Paul</p> <p><b>185</b> Cloud Vertical Structure and Regimes from EarthCARE CPR over the Eastern Mediterranean, George Kotsias, Konstantinos Chrysostomou, Rodanthi Elisavet Mamouri</p> <p><b>190</b> Decision support systems for water scarcity management in Semi-arid regions: A review of AQUATOOL Applications and Implications for Cyprus, Spyroulla Georgiou, Constantinos Panagiotou, Diofantos Hadjimitsis</p> <p><b>191</b> From Multispectral to Hyperspectral: A Benchmarking Study of Crop Mapping Consistency between Sentinel-2 and PRISMA, Iskren Ivanov, Lachezar Filchev, Iliana Kamenova</p> <p><b>192</b> A GIS-Based Geoheritage Inventory for Greece: Development and Applications, Zoe Pantazopoulou, Giorgos Papadavid</p> <p><b>193</b> A Method for Reconstruction of Leaf Area Index Time Series Using Sentinel-2 Data and the Canopy Structural Dynamic Model, Iliana Kamenova, Petar Dimitrov</p> <p><b>194</b> Comparative Analysis of EnMAP and Sentinel-2 Data for Crop Type Mapping, Iskren Ivanov, Lachezar Filchev, Iliana Kamenova</p> <p><b>195</b> Comparing Pearson and Spearman Correlations to Detect Decadal Drought Impacts on semi-arid forests, Filippos Eliades, Silas Michaelides, Chris Danezis, Diofantos Hadjimitsis</p> <p><b>197</b> Associations Between Neighborhood Disadvantage and Arterial Stiffness: Neighborhood Visualization Using GIS in the DEpiCT Study, Cyprus, Galatia Photiou, Nicos Middleton, Demosthenes B. Panagiotakos, Loizos P. Hadjipavlis, Neophytos Stylianou, Andrie G. Panayiotou</p> <p><b>203</b> Early detection of foliar diseases in wheat using UAV-based NDVI remote sensing, E.T Mplioukasa, Giorgos Papadavid, Georgios Kountios, Mixalis Chatzidimopoulos</p> <p><b>204</b> Modeling hydrological impacts of wildfires in the Kouris catchment, Josefina Kountouri, Khaoula Khemiri, Anis Chkirbene, Diofantos G. Hadjimitsis, Constantinos F. Panagiotou</p> <p><b>209</b> Wildfire Impact on Agricultural Vegetation and Post-Fire Recovery: A Remote Sensing and GIS Approach in Fokida, Greece, Afroditi Athanasiou, Christos Theocharides, Christiana Papoutsas, Marios Hadjipanagi, Antonis Mavroeidis, Panagiotis Trivellas, Nikolaos Nikoloudakis, Andreas Katsiotis</p> <p><b>212</b> Mitigating Coastal Erosion and Beach Flooding with Environmentally Friendly Solutions Under Climate Change, Despina Makri, Evagoras Evagorou, Demetris Christofi, Diofantos Hadjimitsis, Thomas Hasiotis, Nicholas Kyriakides, Elena Pallari, Christodoulos Mettas</p> <p><b>214</b> Monitoring Land Use and Land Cover Change in the Coastal Region of Burgas (Bulgaria) Using Copernicus Data, Lachezar Filchev, Kamelia Radeva, Zlatomir Dimitrov, Silvia Kirilova</p> <p><b>222</b> Applications of UAV-Based Multispectral Techniques in Archaeology Milen Chaney, Petru Ciocani, Galin Petrov, Iskren Ivanov, Zlatomir Dimitrov, Mihaela Tsvetkova, Lachezar Filchev</p>		



Cyprus Remote Sensing Society



27-29 April 2026, Aliathon Holiday Village, Paphos, Cyprus

<p><b>230</b> Assessing Aquatic Vegetation from Satellite Imagery Using Drone Derived Reference Data: A Case Study at Lake Maschsee, Janina Schneider, Christoph Manss, Frederic Stahl</p> <p><b>231</b> Estimating Diffuse Fraction under Dust Conditions in Cyprus, Georgia Charalampous, Rodrigo Amaro e Silva, Rodanthi-Elisavet Mamouri, Diofantos Hadjimitsis, Stelios Kazadzis</p> <p><b>242</b> GEORGIA: Advancing Sustainable Irrigation and Soil Health through AI-Driven Water Management and Circular Resource Use, Diofantos Hadjimitsis, Andreas Anayiotos, Martinos Dimosthenous</p> <p><b>255</b> Assessment of Post-Wildfire Changes in Soil Physicochemical Characteristics in Burned and Unburned Vineyard Soils in Limassol, Cyprus, Zacharias Kouis, Stavroula Dimitriadi, Christiana Papoutsas, Menelaos Stavriniades</p> <p><b>256</b> From Multispectral to Hyperspectral EO: Detecting Early Stress in Olive Groves with EnMAP, Eleni Loulli, Thrasos Stylianou, Ashish Kallikkattil Kuruvila, Marianna Hadjichristodoulou, Volha Dubovik, Menelaos Stavriniades, Christiana Papoutsas</p> <p><b>258</b> Development of a Solar Cadastre Application for Rooftop Photovoltaic Potential Assessment and Optimal System Sizing, Efthymios Georgiou, Georgia Charalambous, Rodrigo Amaro e Silva, Rodanthi Elisavet Mamouri, Christodoulos Mettas, Diofantos Hadjimitsis</p> <p><b>261</b> Fuel Type Mapping Using Multi-Source Earth Observation and Machine Learning: A Case Study in Cyprus, Maria Prodromou, Marios Tzouvaras, Christodoulos Mettas, Ioannis Gitas, Diofantos Hadjimitsis</p> <p><b>268</b> Towards an AI-driven framework for predictive maintenance of reinforced concrete bridges using remote sensing data, Elia Tantele, Renos Votsis, Nicholas Kyriakides</p> <p><b>269</b> Integrating MRR 2 Radar Observations and High Resolution WRF Simulations to Investigate Cloud and Precipitation Structure over Athens, Greece, Panagiotis T. Nastos, Stavros Solomos, Christos Pantazis</p> <p><b>270</b> Soil Salt Dynamics Under Treated Wastewater and Conventional Water Irrigation in Mediterranean Citrus Orchards: A Continuous Sensor-Based Monitoring Approach, Eleni Neofytou, Stelios P. Neophytides, Marinos Eliades, Gina Athanasiou, Theodore Zahariadis, Diofantos G. Hadjimitsis</p> <p><b>274</b> Urban Heat adaptation through earth observation for supporting planning policies in Cyprus, Charalambos Soteriades, Diofantos Hadjimitsis, Silas Michaelides</p> <p><b>275</b> Vegetation Dynamics Analysis Using Semantic Classification and the Cyprus Earth Observation Data Cube, Stelios Neophytides, Martin Sudmanns, Dirk Tiede, Michalis Mavrovouniotis, Diofantos Hadjimitsis</p> <p><b>279</b> The Greek Living Earth: A National Digital Infrastructure for Soil Carbon Monitoring and Climate-Resilient Agriculture, Konstantinos Vasileios Karyotis, Eleni Avramidou, Maria Giortsou, Georgios Galanis, Danai Papadopoulou, Argyro Papastergiou, Dafni Kitsou, Gnostofea Stefanidou, Leventoula Kamataki, Maria Avramopoulou, Apostolia Kamataki, Nikolaos Avramopoulos, Eleni Giannoulakou, Aleksandros Nioras, Georgios Kementzetzidis, Grigorios Varras, Georgios Zalidis</p> <p><b>283</b> Spatiotemporal Soil Erosion Assessment Projections on the Cultural Heritage Sites under Different Climate Change Scenarios: The Case Study of Amathus, Cyprus, Nikoletta Papageorgiou</p> <p><b>284</b> Forest Species Classification Using Hyperspectral Imagery in a Mediterranean Ecosystem, C. S. Atan, I. Gitas, C. Kalaitzidis, N. Georgopoulos</p> <p><b>285</b> GIS in Strategic Health Services Planning: A Systematic Review of Access Oriented Applications in Primary Care, N. Stylianou, G. Photiou, E. Evagorou, C. Mettas</p> <p><b>286</b> Integrating Copernicus Environmental and other Socioeconomic Data into the OMOP Common Data Model for Spatiotemporal Analysis of Hypertension and Comorbidities, P. Patsias, V. Kotsios, C. Georgiades, T. Roustanis, G. Paties, A. Zacharegkas, G.K. Nestorno</p>
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