



Cyprus Remote Sensing Society

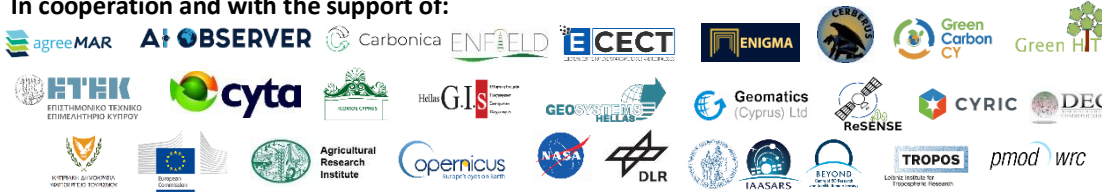
# Tenth International Conference on Remote Sensing and Geoinformation of Environment

## Conference Program

rscy2024.cyprusremotesensing.com



Under the Auspices  
DEPUTY MINISTRY OF RESEARCH, INNOVATION AND DIGITAL POLICY  
REPUBLIC OF CYPRUS

| Day Time   | Monday 8/4/2023   | Day Time   | Tuesday 9/4/2023   |  |  |   |   |  |  |   |
|--|---|--|--|--|--|---|---|--|--|---|
| 8:00 - 9:00  | <b>Registration</b>   | 8:00 - 9:00  | <b>Registration</b>  |  |  |   |   |  |  |   |
| 9:00 - 10:00   | <b>Opening Ceremony - Aphrodite Stage Hall</b><br>1. Professor Diofantos Hadjimitsis - ERATOSTHENES CoE & Cyprus University of Technology (CUT)<br>2. Dr Nicodemos Damianou- Deputy Minister of Research, Innovation and Digital Policy of Cyprus<br>3. Mr Kostas Galatariotis- President of Cyprus University of Technology Board<br>4. Professor Evangelos Akylas- Vice Rector of Financial Planning and Development (CUT)<br>5. Dr Kyriacos Themistocleous- President of Cyprus Remote Sensing Society<br>6. Mrs Myria Loizidou- ETEK<br><b>Honorary Awards</b>  | 9:00 - 9:30  | <b>Aphrodite Stage Hall</b><br>Keynote Speakers: Dr El Hadi & Dr Evdokimos Konstantinides  |  |  |   |   |  |  |   |
|  | VIDEO OF THE EXCELSIOR HORIZON TEAMING PROJECT AND THE ERATOSTHENES CENTER OF EXCELLENCE<br><b>Keynote Speakers:</b><br>1. Gunter Schreier(30min) « <i>Earth Observation: the last 50 years and challenges ahead</i> »<br>2. Steffen Kuntz (30min) « <i>New market opportunities and challenges for remote sensing service</i> »<br>3. Vasilis Kalogirou (10min) « <i>EUSPA in Horizon Europe: delivering success for industry and academia</i> ».  | 9:30 - 11:00   | <b>Parallel Sessions</b><br><table border="1"> <tr> <td> <b>ADONIS ROOM</b><br/>           Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE &amp; DLR         </td> <td> <b>APHRODITE HALL</b><br/>           "ERATOSTHENES CoE Living Labs &amp; Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project &amp; CARBONICA Horizon Europe Project         </td> <td> <b>APOLLON ROOM</b><br/>           SAR Abstract Session         </td> <td> <b>ZEUS ROOM</b><br/>           Cultural Heritage Abstract Session         </td> </tr> </table>  | <b>ADONIS ROOM</b><br>Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE & DLR | <b>APHRODITE HALL</b><br>"ERATOSTHENES CoE Living Labs & Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project & CARBONICA Horizon Europe Project | <b>APOLLON ROOM</b><br>SAR Abstract Session   | <b>ZEUS ROOM</b><br>Cultural Heritage Abstract Session  |  |  |   |
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| 10:00 - 11:30  |   | 11:00 - 11:30  | <b>Coffee Break - Poster presentations</b>   |  |  |   |   |  |  |   |
| 11:30 - 12:00  | <b>Coffee Break - Poster presentations</b>  | 11:30 - 13:00  | <b>Parallel Sessions</b><br><table border="1"> <tr> <td> <b>ADONIS ROOM</b><br/>           Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE &amp; DLR         </td> <td> <b>APHRODITE HALL</b><br/>           "ERATOSTHENES CoE Living Labs &amp; Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project &amp; CARBONICA Horizon Europe Project         </td> <td> <b>APOLLON ROOM</b><br/>           Excelsior closed Session (starts at 11:00 am)         </td> <td> <b>ZEUS ROOM</b><br/>           Atmosphere, Ionosphere, Meteorology Abstract Session         </td> </tr> </table> | <b>ADONIS ROOM</b><br>Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE & DLR | <b>APHRODITE HALL</b><br>"ERATOSTHENES CoE Living Labs & Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project & CARBONICA Horizon Europe Project | <b>APOLLON ROOM</b><br>Excelsior closed Session (starts at 11:00 am)                                      | <b>ZEUS ROOM</b><br>Atmosphere, Ionosphere, Meteorology Abstract Session  |  |  |   |
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| 12:00 - 13:30  | <b>Parallel Sessions</b>  | 13:00 - 14:00  | <b>Lunch</b>   |  |  |   |   |  |  |   |
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| 13:30 - 14:30  | <b>Lunch</b>  | 15:30 - 16:00  | <b>Closing Ceremony and Awards</b>   |  |  |   |   |  |  |   |
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| <b>ADONIS ROOM</b><br>Hazards Abstract Session   | <b>APHRODITE HALL</b><br>Annual Hybrid Workshop on 'AI & Big Data: Trends and Challenges' organised by EXCELSIOR H2020 Teaming Project.   | <b>APOLLON ROOM</b><br>Workshop and round table: Earth Observation and Geoinformatics for the protection of Cultural Heritage                              | <b>ZEUS ROOM</b><br>Fires/Forest Abstract Session  |  |  |   |   |  |  |   |
| 16:00 - 16:30  | <b>Coffee Break - Poster presentations</b>  | <b>In cooperation and with the support of:</b><br>                    |  |  |  |   |   |  |  |   |
| 16:30 - 18:00  | <b>Parallel Sessions</b><br><table border="1"> <tr> <td> <b>ADONIS ROOM</b><br/>           Agriculture Abstract Session         </td> <td> <b>APHRODITE HALL</b><br/>           Annual Hybrid Workshop on 'AI &amp; Big Data: Trends and Challenges' organised by EXCELSIOR H2020 Teaming Project         </td> <td> <b>APOLLON ROOM</b><br/>           Match making event and Workshop in Cyprus organized by the Framework Partnership Agreement on Copernicus User Uptake (FPCUP) Part 1         </td> <td> <b>ZEUS ROOM</b><br/>           Maritime/Coastal Abstract Session         </td> </tr> </table> | <b>ADONIS ROOM</b><br>Agriculture Abstract Session   | <b>APHRODITE HALL</b><br>Annual Hybrid Workshop on 'AI & Big Data: Trends and Challenges' organised by EXCELSIOR H2020 Teaming Project   | <b>APOLLON ROOM</b><br>Match making event and Workshop in Cyprus organized by the Framework Partnership Agreement on Copernicus User Uptake (FPCUP) Part 1   | <b>ZEUS ROOM</b><br>Maritime/Coastal Abstract Session  | <b>Secretariat:</b> Smart events <b>Sponsored by:</b> ESA <b>Proc. Published by:</b> SPIE DIGITAL LIBRARY |   |  |  |   |
| <b>ADONIS ROOM</b><br>Agriculture Abstract Session   | <b>APHRODITE HALL</b><br>Annual Hybrid Workshop on 'AI & Big Data: Trends and Challenges' organised by EXCELSIOR H2020 Teaming Project  | <b>APOLLON ROOM</b><br>Match making event and Workshop in Cyprus organized by the Framework Partnership Agreement on Copernicus User Uptake (FPCUP) Part 1 | <b>ZEUS ROOM</b><br>Maritime/Coastal Abstract Session  |  |  |   |   |  |  |   |
| 18:00 - 19:00  | Expert Lectures - ERATOSTHENES Centre of Excellence / Excelsior (Prof. Steffen Kuntz & Dr Evdokimos Konstantinides) (Closed Session)  |  |  |  |  |   |   |  |  |   |
| 20:30 - 24:00  | <b>Social Dinner Costa's Koloni Tavern</b>  |  |  |  |  |   |   |  |  |   |

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Monday 8 April 2024

|   |   |  |  |
|---|---|--|--|
| 08:00-09:00                                   | REGISTRATION  |  |  |
| 8/4 9:00 - 10:00                              | Opening Ceremony (Aphrodite Stage Hall)   |  |  |
|   | Welcome, Greetings and Opening Speeches <ul style="list-style-type: none"> <li>• Professor Diofantos Hadjimitsis -ERATOSTHENES CoE &amp; Cyprus University of Technology (CUT)</li> <li>• Dr Nicodemus Damianou- Deputy Minister of Research, Innovation and Digital Policy of Cyprus</li> <li>• Mr Kostas Galatariotis- President of Cyprus University of Technology Board</li> <li>• Professor Evangelos Akylas- Vice Rector of Financial Planning and Development (CUT)</li> <li>• Dr Kyriacos Themistocleous- President of Cyprus Remote Sensing Society</li> <li>• Mrs Myria Loizidou- ETEK Honorary Awards</li> </ul> |  |  |
| 8/4 10:00-11:30                               | Keynote Speakers (Aphrodite Stage Hall)   |  |  |
|   | <ul style="list-style-type: none"> <li>• VIDEO OF THE EXCELSIOR HORIZON TEAMING PROJECT AND THE ERATOSTHENES CENTER OF EXCELLENCE</li> <li>• Gunter Schreier(30min) «Earth Observation: the last 50 years and challenges ahead»</li> <li>• Steffen Kuntz (30min) «New market opportunities and challenges for remote sensing service»</li> <li>• EUSPA (10min) «EUSPA in Horizon Europe: delivering success for industry and academia».</li> </ul>  |  |  |
| 11:30-12:00                                   | COFFEE BREAK - POSTER PRESENTATIONS   |  |  |
| 8/4 12:00-13:30                               | REMOTE SENSING  | Chair: Silas Michaelides<br>Chair Support: George Leventis | Room: ADONIS   |
|   | 1144 THE JOINT CYPRUS FLIGHT CAMPAIGN OF ERATOSTHENES COE AND DLR (CERAD) OF 2023<br>T. Krauß, V. Gstaiger, C. Köhler, M. Poutli, K. Themistocleous, S. Michaelides, C. Mettas  |  |  |
|   | 1156 ADVANCING ECONOMIC INSIGHTS: INTEGRATING SPACE TECHNOLOGIES FOR REAL-TIME ECONOMIC NOWCASTING<br>C. Kontopoulos, T. Papakosmas, A. Kalogirou, G. Leventis, K. Spasenovic, V. Charalampopoulou  |  |  |
|   | 1203 DEEP INTERNAL LEARNING FOR SINGLE SWIR SATELLITE IMAGE SUPER RESOLUTION<br>Y. Geltser, S. Maman, S. Rotman, D. Blumberg, O. Hada1, I. Dror, D. Mishra, D. Choukroun, A. Shyriayev  |  |  |
|   | 1196 FROM PIXEL TO INTEL: LEVERAGING SPACE EDUCATION FOR CLIMATE ACTION<br>S. Maman, D. Oryan, L. Ron, G. Doron, B. Karlinsky   |  |  |
|   | 1233 THE INTEGRATION OF REMOTE SENSING TECHNIQUES IN MODERN CIVIL ENGINEERING<br>E. Tantele, C. Filippou, R. Votsis, O. Marangos, N. Kyriakides   |  |  |
|   | 1236 SELENE & HELIOS – THE FIRST GREEK EARTH OBSERVATION CUBESATS ARE IN PREPARATION PHASE<br>P. Kolokoussis, C. Kontopoulos1, G. Voskopoulos1, V. Charalampopoulou   |  |  |
|   | 1211 UN SPIDER LEVERAGING SPACE TECHNOLOGIES FOR EARLY WARNING SYSTEMS: FROM SCIENCE TO POLICY<br>S. Maman, M. Hilljegerdes, Y. Vetrira, M. Hazarika, J. Villagran De Leon, L. Czaran, G. Amarnath, T. Brooks, G. James   |  |  |
| 8/4 12:00-13:30                               | ENVIRONMENT   | Chair: Christiana Papoutsas<br>Chair Support: Eleni Loulli | Room: ZEUS   |
|   | 1167 ON THE MONITORING OF URBAN VEGETATION DISEASES USING SATELLITE TIME SERIES, SINGULAR SPECTRUM ANALYSIS, AND FISHER-SHANNON STATISTICAL METHOD<br>R. Lasaponara, N. Masini, N. Abate, L. Galasso, L. Afflitto, A. Loperte, O. Candela, A. Aromando, M. Santarsiere, L. Telsca   |  |  |
|   | 1186 ASSESSMENT OF VEGETATION GROWTH USING TRADITIONAL METHODS, PHOTOGRAMMETRY, AND NEURAL RADIANCE FIELDS<br>D. Abate, M. Eliades, K. Themistocleous, D. Hadjimitsis   |  |  |
|   | 1188 MONITORING FOREST DYNAMICS BETWEEN 1987-2023: AN NDVI ANALYSIS OF THREE DOMINANT SPECIES IN PAPHOS FOREST, CYPRUS<br>C. Theocharidis, M. Eliades, I. Gitas, C. Danezis, D. Hadjimitsis   |  |  |
|   | 1191 SPECTRAL ANALYSIS AND MAPPING OF UNREGULATED AND REGULATED LANDFILLS IN BULGARIA<br>T. Spasova   |  |  |
|   | 1224 SPECTRAL ANALYSIS AND MAPPING OF UNREGULATED LANDFILLS IN VARNA, THE NORTHEAST REGION OF BULGARIA<br>T. Spasova  |  |  |
|   | 1216 EO-BASED INDICATORS FOR BIODIVERSITY MONITORING AT NATIONAL SCALE IN GREECE: FRAMEWORK DEVELOPMENT FOR THE HELLENIC BIODIVERSITY INFORMATION SYSTEM (EL-BIOS)<br>G. Mallinis, E. Fitoka, I. Chrysafis, V. Fotakidis, L. Chatziordanou, E. Chatzicharalabous  |  |  |
|   | 1214 SYNERGIZING AIRBORNE HYPERSPECTRAL IMAGING AND GROUND TRUTH DATA FOR ENVIRONMENTAL MONITORING: INSIGHTS FROM THE CERAD CAMPAIGN<br>C. Mettas, K. Themistocleous, M. Prodromou, J. Kountouri, E. Kalogirou, E. Evagorou, M. Tzouvaras, M. Christoforou, E. Loulli, G. Charalampous, M. Eliades, Z. Pittaki, I. Varvaris, K. Fotiou, D. Abate, D. Christofi, C. Theocharides, T. Polydorou, E. Neofytou, M. Christoforou, E. Loulli, S. Neophytides, D. Koumoulidis, C. Papoutsas, M. Mavrovouniotis, T. Krauß, V. Gstaiger, C. Köhler, D. Hadjimitsis   |  |  |
| 8/4 12:00-13:30<br>14:30-16:00<br>16:30-18:00 | Workshop (see separate agenda)  |  | Chairs: Michalis Mavrovouniotis, Maria Anastasiadou, Stelios Neophytides<br>Room: APHRODITE HALL |
|   | Workshop: Annual Hybrid Workshop on 'AI & Big Data: Trends and Challenges' organised by EXCELSIOR H2020 Teaming Project   |  |  |
|   | 1193 TRUSTWORTHY AI<br>G. Spathoulas, G. Kavallieratos  |  |  |
|   | 1215 FLOODHUB DIACHRONIC MAPPING SERVICE IN THE TRANSBOUNDARY EVROS RIVER BASIN<br>A. Tsouni, A. Katsos, H. Kontoes   |  |  |
| 8/4 12:00-13:30                               | Workshop (see separate agenda)  |  | Chairs: Maria Prodromou, Ioannis Gitas<br>Room: APOLLON ROOM                                     |
|   | Workshop for ReSENSE (Remote sensing technologies training) project   |  |  |
| 13:30-14:30                                   | LUNCH   |  |  |

|                   |   |  |   |                    |
|-------------------|---|--|---|--------------------|
| 8/4 14:30-16:00   | <b>HAZARDS</b>  |  | Chair: Rani Hellerman<br>Chair support: Marios Tzouvaras    | Room: ADONIS       |
|                   | 1134  | INTEGRATED SATELLITES-BASED SOLUTION FOR ENHANCED FIRE DETECTION AND FLOODING MONITORING<br>R. Hellerman   |   |                    |
|                   | 1178  | FLOOD HAZARD ASSESSMENT USING HEC-RAS MAPPING IN GARYLLIS RIVER BASIN, CYPRUS<br>J. Kountouri, A. Tsouni, S. Sigourou, V. Pagana, C. Panayiotou, C. Mettas, E. Loulli, C. Kontoes, D. Hadjimitsis.   |   |                    |
|                   | 1212  | DETECTION OF GNSS INTERFERENCE THROUGH A NATURAL HAZARD MONITORING SYSTEM AND NEXT STEPS TOWARDS THE DEVELOPMENT OF AN INTERFERENCE EARLY WARNING SYSTEM<br>N. Christoforou, D. Kakoullis, C. Danezis  |   |                    |
|                   | 1206  | INVESTIGATING THE EFFECT OF INTENSE RAINFALL EVENTS IN ESTIMATING THE DISPLACEMENTS OF AN ACTIVE AND FAST-MOVING LANDSLIDE USING GNSS SAR ANALYSIS: THE CASE STUDY OF PISSOURI VILLAGE IN CYPRUS<br>K. Fotiou, D. Kakoullis, C. Kotsakis, M. Hatzinikos, C. Danezis, D. Hadjimitsis  |   |                    |
|                   | 1201  | SEISMIC SURVEILLANCE OF VRANCEA ACTIVE REGION IN ROMANIA BY TIME SERIES SATELLITE DATA ANOMALIES<br>M. Zoran, R. Radvan, D. Savastrou, M. Tautan   |   |                    |
|                   | 1194  | GIS-BASED SEIS MIC RISK AND LOSS ESTIMATION PLATFORM FOR CYPRUS<br>C. Filippou, R. Votsis, E. Tantele, O. Marangos, K. Fotiou, N. Kyriakides   |   |                    |
| 8/4 14:30-16:00   | <b>FIRES &amp; FOREST</b>   |  | Chair: Ioannis Gitas<br>Chair support: Christodoulos Mettas | Room: ZEUS         |
|                   | 1166  | ON THE ESTIMATION OF FIRE IMPACT ON ECOSYSTEM SERVICES QUANTIFIED (ALSO) USING SOCIO-ECONOMIC ASPECTS<br>R. Lasaponara, D. Gioia, A. Minervini, N. Abate, N. Masini, A. Loperte  |   |                    |
|                   | 1169  | ON THE POTENTIALITY OF THE SENTINEL-1 FOR FIRE SEVERITY ASSESSMENT: THE EXPERIENCE OF FIRESAT PROJECT<br>R. Lasaponara, N. Abate, A. Aromando, G. Lopert, G. Dibello   |   |                    |
|                   | 1183  | UTILIZING REMOTE SENSING FOR EARLY DETECTION OF CRITICAL TRANSITIONS IN FOREST ECOSYSTEMS<br>F. Eliades, D. Hadjimitsis, C. Danezis  |   |                    |
|                   | 1161  | EXPLORING THE POTENTIAL OF SPACEBORNE LIDAR DATA FOR FOREST BIOMASS ESTIMATION IN A COMPLEX-STRUCTURED CONIFEROUS FOREST<br>N. Georgopoulos, K. Antoniadis, D. Stavrakoudis, I. Gitas  |   |                    |
|                   | 1218  | A GREEN - HOLISTIC IOT PLATFORM FOR FOREST MANAGEMENT AND MONITORING: THE REFORESTATION MODULE<br>M. Prodomou, A. Constantinides, A. Pamboris, M. Tzouvaras, I. Iasonos, A. Hadjiantonis, A. Iacovides, P. Leng Cheng, D. Hadjimitsis  |   |                    |
| 8/4 14:30-16:00   | Workshop (see separate agenda)  |  | Chair: Betty Charalampopoulou                               | Room: APOLLON ROOM |
|                   | Workshop  | Workshop and round table: Earth Observation and Geoinformatics for the protection of Cultural Heritage   |   |                    |
| 16:00-16:30       | COFFEE BREAK - POSTER PRESENTATIONS   |  |   |                    |
| 8/4 16:30 - 18:00 | <b>AGRICULTURE</b>  |  | Chair: Georgios Kountios<br>Chair support: Marinos Eliades  | Room: ADONIS       |
|                   | 1163  | THE ROLE OF ESG ADVISORY AS AN INNOVATIVE TOOL FOR SUSTAINABLE FINANCIAL DEVELOPMENT. THE EVIDENCE OF THE FOOD COMPANIES<br>M. Tsiouni, G. Kountios, G. Papadavid, A. Kyriakidou   |   |                    |
|                   | 1164  | THE FINANCIAL PERFORMANCE OF THE GREEK FOOD INDUSTRY BEFORE AND AFTER THE APPLICATION OF ESG CRITERIA.<br>A. Kyriakidou, M. Tsiouni, G. Kountios, G. Papadavid   |   |                    |
|                   | 1170  | INSIGHTS FROM CYPRUS, GREECE, AND NORTH MACEDONIA TOWARDS THE DECARBONIZATION OF THE AGRICULTURAL SECTOR: A QUADRUPLE HELIX PERSPECTIVE ON CARBON FARMING-DATA DERIVED FROM A SURVEY STUDY<br>E. Neofytou, E. Loulli, C. Papoutsas, M. Tzouvaras, M. Eliades, I. Varvaris, P. Chantzi, G. Galanis, V. Ilieva, G. Zalidis, B. Mukanov, M. Christoforou, D. Hadjimitsis  |   |                    |
|                   | 1173  | PRECISION VITICULTURE USING MULTIPLE SENSORS AND AERIAL ROBOTICS (VITISENSE) FOR BETTER FINANCIAL OUTCOMES AND DISEASE MANAGEMENT PRACTICES<br>M. Tsiouni, M. Chatzidimopoulos, C. Lagoudas, A. Loridas, S. Baliktsis, G. Foudoulis  |   |                    |
|                   | 1209  | IN SITU SOIL SPECTROSCOPY FOR ENVIRONMENTAL MONITORING: CASE STUDY IN WESTERN GREECE ORANGE ORCHARDS<br>K. Karyotis, A. Zalidis, D. Xenitopoulou, E. Kalopesa  |   |                    |
|                   | 1182  | UTILIZING EARTH OBSERVATION BASED SOIL SCALABLE DIGITAL TWINS FOR SUPPORTING "SOIL LIVING LABS" AND SOIL HEALTH AND CARBON MRV FOR "SOIL DISTRICTS" AS AN ECO-APPROACH FOR INFORMED DECISION-MAKING APPLYING THE NEW COHESIVE SOIL MONITORING LAW<br>I. Varvaris, Z. Pittaki, C. Mettas, M. Christoforou, P. Chantzi, E. Evagorou, N. Tsakiridis, K. Karyotis, S. Neophytides, K. Themistocleous, G. Zalidis, D. Hadjimitsis |   |                    |
| 8/4 16:30 - 18:00 | <b>MARITIME/COASTAL</b>   |  | Chair: Chris Danezis<br>Chair support: George Melillos      | Room: ZEUS         |
|                   | 1139  | OIL SPILL DETECTION ON LANDSAT-8/9 IMAGES BASED ON DEEP LEARNING METHODS<br>O. Schmidt, E. Schwarz   |   |                    |
|                   | 1155  | ENHANCING MARITIME AWARENESS WITH MULTI-SENSOR SATELLITE REMOTE SENSING TECHNIQUES<br>C. Kontopoulos, O. Kourouniotti, D. Krause, G. Voskopoulos   |   |                    |
|                   | 1174  | SEAGRASS AND OTHER HABITAT TYPES MAPPING WITH REMOTE SENSING TECHNIQUES IN CYPRUS<br>D. Makri, E. Kalogirou, M. Tzouvaras, D. Hadjimitsis, C. Mettas, E. Evagorou, G. Melillos   |   |                    |
|                   | 1208  | WEB GIS TOOLS TO COMBINE STATION OBSERVATION AND NETCDF FORMAT DATA<br>E. Zhuk   |   |                    |
|                   | 1207  | WEB GIS TOOLS TO VISUALIZE SEA CURRENTS DATA<br>E. Zhuk  |   |                    |
|                   | 1198  | EVALUATION OF MARINE HABITAT DISTRIBUTION AND HUMAN IMPRINTS OFF AN INSULAR OPEN-PIT, GYALI ISLAND, SE AEGEAN SEA<br>M. Tzafaridi, T. Petsimeris, T. Hasiotis  |   |                    |
| 8/4 16:30 - 18:00 | Workshop (see separate agenda)  |  | Chair: Despina Makri, George Nichola                        | Room: APOLLON ROOM |
|                   | Workshop  | Match making event and Workshop in Cyprus organized by the Framework Partnership Agreement on Copernicus User Uptake (FPCUP) Part 1  |   |                    |
| 8/4 18:00 - 19:00 | Expert Lecture (Closed Session)   |  |   |                    |
|                   | Expert Lectures - ERATOSTHENES Centre of Excellence / Excelsior (Prof. Steffen Kuntz & Dr. Evdokimos Konstantinides) (Closed Session) |  |   |                    |
| 8/4 20:30-24:00   | Social Dinner Costa's Koloni Tavern   |  |   |                    |

**Tuesday 9 April 2024**

|   |  |  |   |
|---|--|--|---|
| 08:00-09:00                                   |  | REGISTRATION   |   |
| 9/4   | 9:00 - 9:30                                    | Keynote Speakers (Aphrodite Stage Hall)  |   |
|   |  | Dr. El Hadi & Dr. Evdokimos Konstantinides   |   |
| 9/4   | 9:30 - 11:00                                   | SAR  | Chair: Athanasios Ganas<br>Chair support: Chris Danezis, Marios Tzouvaras<br>Room APOLLON |
|   | 1148   | INSAR MAPPING OF GROUND DEFORMATION USING TIME-SERIES DATA: EXAMPLES FROM THE GULF OF CORINTH AND MILOS, GREECE<br>A.Ganas, V. Tsironi, I. Katramitros, E. Efstathiou  |   |
|   | 1136   | SENTINEL-1A ASSESSMENT RESULTS USING SAR CORNER REFLECTORS BY MEANS OF THE CYCLOPS STRATEGIC INFRASTRUCTURE IN CYPRUS<br>D. Kakoullis, K. Fotiou, N. Ibarrola Subiza, R. Brcic, M. Eineder, C. Danezis   |   |
|   | 1137   | ENHANCING GEOHAZARD MONITORING IN CYPRUS: FROM CYCLOPS TO CYCLOPS+ INFRASTRUCTURE DEVELOPMENT AND SERVICE EXPANSION<br>C. Danezis, D. Kakoullis, K. Fotiou, M. Chatzinikos, C. Kotsakis, G. Ioannou, M. Tzouvaras, N. Ibarrola Subiza, R. Brcic, M. Eineder  |   |
|   | 1138   | NEAR REAL-TIME OIL POLLUTION MONITORING USING SAR FOR THE SOUTHEASTERN MEDITERRANEAN SEA<br>Y. Yang, C. Schnupfhagn, S. Jacobsen   |   |
|   | 1217   | EXPLOITATION OF COPERNICUS SATELLITE DATA FOR MONITORING FISHING SHELTERS IN CYPRUS USING ADVANCED INSAR TECHNIQUES<br>K. Fotiou, S. Alata, A. Apostolakis, M. Prodromou, M. Tzouvaras, C. Mettas, C. Danezis, C. Kontoes, D. Hadjimitsis  |   |
| 9/4   | 9:30 - 11:00                                   | CULTURAL HERITAGE  | Chair: Kyriacos Themistocleous<br>Chair support: Dante Abate<br>Room: ZEUS                |
|   | 1184   | ENRICHMENT OF 3D CULTURAL HERITAGE DATA SETS WITH THEIR MEMORY<br>M. Ioannides   |   |
|   | 1231   | EARTH OBSERVATION AND GEOINFORMATICS FOR CULTURAL HERITAGE RESEARCH AND APPLICATIONS IN CYPRUS DURING THE LAST 17 YEARS: INTEGRATION OF IN-SITU, AIRBORNE AND SPACEBORNE DATA, AND THE UTILIZATION OF ARTIFICIAL INTELLIGENCE<br>D. Hadjimitsis, K. Themistocleous, C. Mettas, M. Tzouvaras, E. Evagorou, D. Abate, C. Papoutsas, A. Nisantzi, R. Mamouri, M. Mavrouniotis, A. Christofe, M. Prodromou, E. Loulli, G. Leventis, S. Michaelides, A. Anayiotos, N. Kyriakides, R. Lasaponara, N. Masini, D. Cerra, T. Krauss, G. Schreier, F. Del Frate, B. Charalampopoulou, C. Danezis |   |
|   | 1230   | SEMI-AUTOMATIC IDENTIFICATION OF CULTURAL HERITAGE LOOTING ACTIVITIES THROUGH EARTH OBSERVATION<br>D. Abate, M. Tzouvaras, D. Hadjimitsis  |   |
|   | 1227   | SALINITY EFFECTS ON CULTURAL HERITAGE SITES: THE CASE STUDY OF THE TOMB OF THE KINGS IN PAPHOS, CYPRUS<br>C. Dimitriou, D. Abate, K. Themistocleous, M. Eliades, D. Hadjimitsis  |   |
|   | 1213   | STRATEGIC SENTINELS: INVESTIGATING THE ROLE AND DISTRIBUTION OF MEDIEVAL TOWERS IN CYPRUS THROUGH GEOSPATIAL ANALYSIS<br>M. Doukanari, C. Mettas, D. Hadjimitsis   |   |
|   | 1204   | UNDERSTANDING BYZANTINE PORTS OF CRETE THROUGH ARCHAEOLOGICAL AND GIS BASED APPROACHES<br>K. Roussos   |   |
| 9/4   | 9:30 - 11:00<br>11:30 - 13:00                  | Workshop (see separate agenda)   | Chair: George Melillos, Egbert Schwarz, Gunter Schreier<br>Room: ADONIS                   |
|   | Workshop                                       | Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance and Awareness in Cyprus organized by the EXCELSIOR H2020 Teaming project: CUT, ERATOSTHENES CoE & DLR'.   |   |
| 9/4   | 9:30 - 11:00<br>11:30 - 13:00<br>14:00 - 15:30 | Workshop (see separate agenda)   | Chair: Christiana Papoutsas, Ioannis Varvaris, Marinos Eliades<br>Room: APHRODITE HALL    |
|   | Workshop                                       | "ERATOSTHENES CoE Living Labs & Opportunities and Challenges in Carbon Farming" organized by the EXCELSIOR H2020 Teaming Project & CARBONICA Horizon Europe Project  |   |
| 11:00-11:30                                   |  | COFFEE BREAK - POSTER PRESENTATIONS  |   |
| 9/4   | 11:30 - 13:00                                  | ATMOSPHERE, IONOSPHERE, METEOROLOGY  | Chair: Silas Michaelides<br>Chair support: Rodanthi Elisavet Mamouri<br>Room: ZEUS        |
|   | 1177   | AEROSOL CLASSIFICATION IN CYPRUS USING ACTIVE AND PASSIVE REMOTE SENSING TECHNIQUES<br>A. Savva, A. Nisantzi, A. Ansmann, D. Hadjimitsis, R. Mamouri   |   |
|   | 1179   | UNDERSTANDING THE FEBRUARY 14, 2024 TORNADO IN CYPRUS<br>E. Loulli, S. Michaelides, J. Bühl, R. Mamouri, A. Nisantzi, D. Ene, F. Tymvios, D. Charalambous, D. Hadjimitsis  |   |
|   | 1151   | EARTH OBSERVATION DATA INTEGRATION FOR THE EVALUATION OF MODEL OUTCOMES AND THE ENHANCEMENT OF EARLY WARNING SYSTEMS FOR HUMAN HEALTH.<br>G. Nikolaidis, P. Mouzourides, M. Neophytou  |   |
|   | 1147   | ENABLING IN-SITU AIR-QUALITY MONITORING USING MODULAR SENSING NODES FOR HARD-TO-REACH AREAS<br>S. Chrysanthou, K. Erotokritou, A. Pappasavva, A. Karkotis, M. Sophocleous, L. Christofi  |   |
|   | 1157   | PRELIMINARY ACTIVITIES FOR THE ESTABLISHMENT OF CYMETEO STRATEGIC METEOROLOGICAL INFRASTRUCTURE IN COLLABORATION WITH THE DEPARTMENT OF METEOROLOGY<br>C. Oikonomou, H. Haralambous, F. Tymvios, D. Charalambous, M. Satriki, V. Kotroni, K. Lagouvardos, E. Loizou  |   |
|   | 1158   | RATE OF TOTAL ELECTRON CONTENT INDEX (ROTI) CHARACTERISTICS OVER CYPRUS<br>K. Sekhar, H. Haralambous, C. Oikonomou   |   |
|   | 1143   | CYPRUS RADAR FOR IONOSPHERIC SPACE SITUATIONAL AWARENESS (CYRISSA)<br>H. Haralambous   |   |
|   | 1146   | COMPARISON BETWEEN RO AND DIGISONDE BOTTOMSIDE ELECTRON DENSITY OVER CYPRUS<br>H. Haralambous, M. Moses  |   |
|   | 1202   | AN ASSESSMENT OF SOLAR IRRADIANCE ENHANCEMENT EVENTS DURING CY-CARE CAMPAIGN AT LIMASSOL, CYPRUS<br>K. Fragkos, I. Fountoulakis, G. Charalampous, K. Papachristopoulou, R. Mamouri, D. Ene, A. Nisantzi, A. Ansmann, P. Seifert, D. Hadjimitsis, S. Kazadzis   |   |
| 9/4   | 11:30 - 13:00                                  |  | Chair:<br>Room APOLLON  |
| Excelsior closed Session (starts at 11:00 am) |  |  |   |
| 13:00-14:00                                   |  | LUNCH  |   |

|     |                 |  |   |              |
|-----|-----------------|--|---|--------------|
| 9/4 | 14:00-15:30     | LAND USE, LAND COVER, URBAN  | Chair: Maria Anastasiadou<br>Chair support: Christiana Filippou     | Room APOLLON |
|     | 1140            | URBAN GREEN SPACE AND ALBEDO IMPACTS ON SURFACE TEMPERATURE IN BUCHAREST METROPOLITAN AREA<br>M. Zoran, R. Radvan, D. Savastrou, M. Tautan, A. Penache   |   |              |
|     | 1141            | TIME SERIES SATELLITE DATA FOR ASSESSMENT OF DROUGHT IMPACTS ON VEGETATION LAND COVER IN DRYLAND CONSTANTA COUNTY, ROMANIA<br>D. Savastrou, M. Zoran, R. Radvan, M. Tautan, D. Tenciu  |   |              |
|     | 1152            | ASSESSING LAND REDISTRIBUTION PLANS USING STOCHASTIC MULTI-CRITERIA ACCEPTABILITY ANALYSIS<br>D. Demetriou   |   |              |
|     | 1168            | MONITORING LANDSCAPE RESTORATION: FROM LAND USE CHANGE METHODOLOGIES TO COLLABORATIVE DIGITAL TWIN PLATFORMS IN THE CONTEXT OF LOCALLY-DRIVEN IMPLEMENTATIONS<br>M. Gabriele, R. Brumana, N. Genzano   |   |              |
|     | 1228            | ASSESSMENT OF HEAT ISLANDS IN THE SOUTHEAST AND NORTHEAST ECONOMIC REGIONS OF BULGARIA BY REMOTE SENSING<br>T. Spasova, D. Avetisyan, I. Ivanova   |   |              |
|     | 1205            | ASSESSING THE DYNAMICS OF LAND USE AND LAND COVER THROUGH MACHINE LEARNING TECHNIQUES IN THE TUNISIAN SEMI-ARID CONTEXT<br>K. Khemiri, A. Chekirbane, C. Panagiotou  |   |              |
|     | 1200            | LINKING URBANIZATION WITH AIR POLLUTION AND THERMAL ENVIRONMENT IN BUCHAREST CITY<br>M. Zoran, R. Radvan, D. Savastrou, M. Tautan  |   |              |
| 9/4 | 14:00-15:30     | Water, Hydrology, Water Resources, Floods Abstract Session   | Chair: Constantinos Panagiotou<br>Chair support: Josefina Kountouri | Room: ZEUS   |
|     | 1180            | ASSESSING THE IMPACT OF KLIROU-MALOUNTA DAM (CYPRUS) ON DOWNSTREAM VEGETATION DYNAMICS: A REMOTE SENSING AND HYDROLOGICAL MODELING APPROACH<br>E. Loulli, M. Gabriele, M. Eliades  |   |              |
|     | 1185            | EVALUATING THE EFFECTIVENESS OF IMPROVED DIGITAL SOIL MAPS, GENERATED THROUGH A HYBRID CNN-RF APPROACH, FOR ESTIMATING SOIL LOSS DUE TO WATER EROSION<br>N. Tziolas, N. Samarinas, I. Tsividis, G. Zalidis   |   |              |
|     | 1199            | ASSESSING THE FEASIBILITY OF MAR IN CYPRUS THROUGH THE USE OF A PARTICIPATIVE MULTI-CRITERIA DECISION ANALYSIS<br>C. Panagiotou, S. Eisenreich, T. Martins, O. Barouta, S. Neofytides, M. Stylianou, C. Stefan, A. Chekirbane, K. Khemiri  |   |              |
| 9/4 | 14:00-15:30     | Workshop (see separate agenda)   | Chair:<br>Chair support:  | Room: ADONIS |
|     | <b>Workshop</b> | Copernicus Uptake for the Maritime sector. Match making event and Workshop in Cyprus organized by the Framework Partnership Agreement on Copernicus User Uptake (FPCUP) Part 2: 9.30am to 13.00 Synergies with the Beyond the Horizon Workshop Part 3: 14.00-15.30 Presentations |   |              |
| 9/4 | 15:30-16:00     | <b>CLOSING CEREMONY AND AWARDS</b>   |   |              |

## POSTER PRESENTATIONS

| ID   | Title   |
|------|---|
| 1197 | MONITORING AND INVERSION OF THREE CO-SEISMIC EVENTS ON THE BALKAN PENINSULA.<br>M. Atanasova-Zlatareva, H. Nikoloz, L. Dimova, R. Raykova   |
| 1149 | MAPPING COASTAL EROSION USING UAVS, GNSS AND GIS. THE CASE OF RIO GREECE.<br>A. Kyriou, K. Nikolakopoulos, I. Koukouvelas   |
| 1153 | NEAR REAL TIME SEA TRAFFIC MONITORING USING LANDSAT-8/9<br>S. Voinov, T. Kaminski, D. Krause, E. Schwarz  |
| 1160 | COMPARATIVE ANALYSIS OF WIND SPEED AND DIRECTION MEASUREMENTS FROM SENTINEL- 1 SAR AND SENTINEL - 3 SATELLITES<br>E. Kalogirou, G. Melillos, C. Mettas, E. Evagorou, D. Hadjimitsis   |
| 1232 | ASSESSMENT OF MOSSES IN ANTARCTICA AND BULGARIA BY REMOTE SENSING AND CHLOROPHYLL FLUORESCENCE<br>T. Spasova, D. Avetisyan  |
| 1226 | THE USE OF REMOTE SENSING AND GIS DATA FOR THE DETECTION OF SEA LEVEL CHANGE: A CASE STUDY OF CYPRUS<br>N. Akçit, C. Kara   |
| 1225 | INSAR AND GROUND TRUTH OBSERVATIONS FOR THE DETECTION AND MONITORING OF LANDSLIDES IN PEDOULAS VILLAGE, IN CYPRUS<br>S. Alatza, C. Loupasakis, A. Apostolakis, M. Tzouvaras, K. Themmistocleous, C. Kontoes, A. Tsouni, C. Danezis, D. Hadjimitsis  |
| 1220 | EVALUATION OF AGRO-ECOLOGICAL PRACTICES IN NORTH AFRICA, EMPLOYING THE DAHBSIM MODEL WITH EARTH OBSERVATION DATA<br>C. Kalaitzidis, D. Ouerfelli, J. Calabrese, G. Kleftodimos  |
| 1159 | ANALYSIS OF AN EXTREME HYDROMETEOROLOGICAL EVENT IN ATHENS, GREECE ON SEPTEMBER 6, 2023, USING OTT PARSIVEL DISDRUMETER AND PLUVIOMETER DATA<br>P. Nastos, E. Feloni, A. Chasiotis  |
| 1135 | ANALYSIS OF THE IMPACT OF SPATIAL PLANNING ON AIR POLLUTANT TRENDS USING MODIS DATA<br>E.M. Toader, A. Badea, C. Croitoru   |
| 1142 | ONE-YEAR OBSERVATIONS OF HORIZONTAL WINDS IN LIMASSOL, CYPRUS USING A DOPPLER LIDAR<br>D. Ene, R. Mamouri, A. Nisantzi, M. Poutli, M. Anastasiadou, K. Fragkos, C. Papoutsas, S. Michaelides, J. Bühl, P. Seifert, D. Hadjimitsis   |
| 1210 | SMOKE OPTICAL PROPERTIES: LIDAR OBSERVATIONS IN CYPRUS DURING 2021-2023<br>M. Poutli, D. Hadjimitsis, A. Nisantzi, A. Ansmann, R. Mamouri   |
| 1172 | HOW CAN REMOTE SENSING BE A MODERN SOLUTION FOR MONITORING XYLELLA FASTIDIOSA BACTERIUM THAT THREATENS OLIVE TREES: A REVIEW<br>M. Hadjichristodoulou, C. Papoutsas, L. Kanetis, M. Stavriniades, M. Eliades, D. Hadjimitsis  |
| 1234 | POTATO YIELD EMPOWERMENT BY PHOTOSYNTHESIS, CARBON ASSIMILATION AND EVAPOTRANSPIRATION<br>E. Neofytou, S. Neofytides, I. Tsoumas, A. Tsalakou, M. Christoforou, M. Iliades, C. Papoutsas, C. Kontoes, D. Hadjimitsis  |
| 1175 | UNMANNED AERIAL SYSTEMS FOR EARLY DETECTION OF DOWNY MILDEW IN TOBACCO FIELDS: ENHANCING FINANCIAL OUTCOMES THROUGH PRECISION MONITORING<br>M. Chatzidimopoulos, M. Tsiouni, C. Lagoudas, A. Loidas, S. Baliktis, C. Vozikis  |
| 1192 | A REVIEW: SOIL PROPERTIES MAPPING ESTIMATION USING REMOTE AND PROXIMAL SENSING DATA.<br>D. Koumoulidis, A. Efthimiadou, N. Katsenios, D. Hadjimitsis  |
| 1235 | CAPACITY BUILDING OF STAKEHOLDERS IN CARBON FARMING UNDER THE 'CARBONICA' Project: 'Carbon Initiative for Climate-resilient Agriculture'<br>D. Hadjimitsis, M. Christoforou, S. Efstathiou, A. Tsalakou, A. Nisantzi, and M. Stavriniades   |
| 1176 | MAPPING ECOSYSTEM SERVICES TRADE-OFFS AND SYNERGIES OVER PILOT NATURA 2000 SITES IN GREECE<br>I. Chrysafis, K. Vatsis, I. Kokkoris, P. Dimopoulos, T. Roustanis, H. Georgiadis, E. Chalkidou P. Patias, G. Mallinis   |
| 1150 | UAV, SATELLITE DATA AND GIS FOR REEF MONITORING IN PROKOPOS LAGOON<br>K. Nikolakopoulos, A. Kyriou, A. Ntzoumani, S. Faulwetter, A. Ramfos, P. Avramidis  |
| 1145 | DROUGHTS SEVERITY SCORE PREDICTION USING EXPLAINABLE MACHINE LEARNING METHODOLOGIES.<br>S. Neofytides, M. Mavrouniotis, M. Eliades, D. Hadjimitsis, F. Bachofer   |
| 1171 | A PRELIMINARY ASSESSMENT OF RESERVOIR SEDIMENTATION IN SELECTED DAMS OF CYPRUS<br>N. Gourgouletis, E. Baltas  |
| 1181 | ESTABLISHING MUNICIPAL HYDROMETEOROLOGICAL-HYDROMETRIC STATION NETWORKS: A GIS-ASSISTED MCDM DESIGN APPROACH<br>E. Feloni, P. Nastos, A. Chasiotis  |
| 1229 | ASSESSMENT OF SATELLITE-DERIVED RAINFALL DATASETS FOR FLOOD EVENTS SIMULATIONS, IN THE UPPER ALFEIOS RIVER BASIN, GREECE<br>G. Savvas, A. Bournas, E. Baltas  |
| 1162 | INTEGRATED APPLICATION OF GEOSPATIAL TECHNOLOGIES FOR DIGITAL TWINING OF URBANIZED TERRITORIES FOR MICROSCALE URBAN PLANNING<br>S. Petrov, S. Dimitrov, I. Ihtimanski   |
| 1165 | UAS BASED REMOTE SENSING FOR RAPID LARGE-SCALE MAPPING OF URBANIZED TERRITORIES FOR SUSTAINABLE URBAN PLANNING: THE CASE OF STARA ZAGORA, BULGARIA<br>I. Ihtimanski, S. Dimitrov, S. Petrov   |
| 1222 | ADVANCING FOREST BIODIVERSITY CONSERVATION WITH THE EL-BIOS DIGITAL TWIN: AN INTEGRATION OF LIDAR AND MULTISPECTRAL EARTH OBSERVATION DATA<br>I. Karolos, K. Bellos, V. Alexandritis, I. Chrysafia, H. Georgiadis, C. Pikridas, V. Tsioukas, P. Patias, G. Mallinis                                       |
| 1221 | ENHANCING DISASTER RISK REDUCTION THROUGH ARTIFICIAL INTELLIGENCE: CAPITALIZING ON THE CAPACITY BUILDING ACTIVITIES OF THE AI-OBSERVER TWINNING PROJECT<br>M. Tzouvaras, M. Mavrouniotis, R. Votsis, K. Fotiou, E. Kalogirou, T. Polydorou, G. Reis, F. Del Frate, L. Papale, G. Guerrisi, D. Hadjimitsis |
| 1154 | ESTIMATING YIELD WITH THE OBJECT DETECTION MODEL YOLOV5S<br>S. Neofytides, G. Guerrisi, M. Mavrouniotis, M. Tzouvaras, F. Del Frate, D. Hadjimitsis   |
| 1195 | THE STUDY OF THE URBAN HEAT ISLAND EFFECT IN CYPRUS USING GOOGLE EARTH ENGINE FOR 2013-2023<br>C. Soderiades, S. Neofytides, S. Michaelides, D. Hadjimitsis   |
| 1219 | WATER PLANNING AND MANAGEMENT SCENARIOS IN AKROTIRI (CYPRUS) USING AQUATOOL DECISION SUPPORT SYSTEM<br>S. Ghannem, G. Paschalidou, C. Panagiotou, R. Bergillos, M. Scytlianou, N. Lerma   |
| 1223 | SHORELINE DETECTION RESULTING IN HISTORICAL BEACH SHAPES IN CHRYSOCHOY BAY CYPRUS<br>D. Christofi, C. Mettas, E. Evagorou, N. Stylianou, T. Hasiotis, C. Danezis, D. Hadjimitsis  |

POSTER PRESENTATIONS