

## 1<sup>st</sup> Poster Session (Poseidon Hall) – Monday 9/7 15:30 – 16:30

- 1 Sharpening Sentinel-3 thermal images by fusing Sentinel-2 VIS/NIR imagery**  
**Hanna Huryna<sup>1,2</sup>, Yafit Cohen<sup>2</sup>, Arnon Karnieli<sup>1</sup>, Natalya Panov<sup>1</sup>, William Kustas<sup>3</sup>, Nurit Agam<sup>1</sup>**  
1: Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev, Israel; 2: Institute of Agricultural Engineering, Agricultural Research Organization (ARO), Volcani Center, Israel; 3: Hydrology and Remote Sensing Laboratory, Agricultural Research Services, US Department of Agriculture, Maryland, USA
- 2 DIEGO – Dynamic Infrared Earth Observation on the ISS Orbit**  
**Johannes A. Schultz, Andreas Rienow**  
Department of Geography, Ruhr-University Bochum, Germany
- 3 The Impact of Sentinel-1 Imaging Parameters on the Ability to Automate the Water Range Detection**  
**Katarzyna Osińska-Skotak<sup>1</sup>, Joanna Pluto-Kossakowska<sup>1</sup>, Beata Weintrit<sup>1,2</sup>, Helena Łoś<sup>1</sup>, Justyna Kamoda<sup>1</sup>**  
1: Warsaw University of Technology, Faculty of Geodesy and Cartography, Department of Photogrammetry, Remote Sensing and Spatial Information Systems, Poland; 2: Astri Polska Sp. z o.o., Poland
- 4 Use of Remote Sensing Data on Tamarix to Study Relief Dynamics of the Anapa Bay-bar**  
**Marina Krylenko<sup>1</sup>, Viacheslav Krylenko<sup>1</sup>, Sergey Krylenko<sup>2</sup>**  
1: Shirshov Institute of Oceanology RAS, Russian Federation; 2: Lomonosov Moscow State University, Russian Federation
- 5 Object-Based Image Classification for Buildings Extraction**  
**Arti Tiwari, Arnon Karnieli**  
Ben Gurion University of Negev, Israel
- 6 Digital images processing for dykes identification and mapping in the Asseo region "south central Hoggar" ALGERIA**  
**Oussama Benabbou, Ahmed Bennis, Lahsen Wahib Kébir**  
Centre des techniques spatiales Arzew Algeria
- 7 Selection of Optimal Time for Species Recognition with Use of Hyperspectral Imagery**  
**Aneta Modzelewska, Krzysztof Stereńczak, Agnieszka Kamińska**  
Forest Research Institute, Poland
- 8 Detection of Land Surface Temperature Patterns in Thuringia, Germany, Using Atmospherically Corrected FireBIRD/TET-1 Data**  
**Sarah Asam<sup>1</sup>, Ursula Gessner<sup>1</sup>, Rudolf Richter<sup>2</sup>, Doris Klein<sup>1</sup>, Christian Fischer<sup>3</sup>**  
1: German Aerospace Center (DLR), German Remote Sensing Data Center (DFD), Wessling, Germany; 2: German Aerospace Center (DLR), Remote Sensing Technology Institute (MF), Wessling, Germany; 3: German Aerospace Center (DLR), Institute of Optical Sensor Systems (OS), Berlin, Germany
- 9 Phenological Changes Reflected In Spectral Properties Of Invasive And Expansive Plant Species**  
**Anita Sabat-Tomala<sup>1</sup>, Anna Jarocińska<sup>1</sup>, Bogdan Zagajewski<sup>1</sup>, Adrian Ochtyra<sup>1</sup>, Łukasz Sławik<sup>1,2</sup>, Jan Niedzielko<sup>2</sup>, Adriana Marcinkowska-Ochtyra<sup>1</sup>, Edwin Raczko<sup>1</sup>, Andrzej Pasierbiński<sup>3</sup>, Katarzyna Bzdęga<sup>3</sup>, Barbara Tokarska-Guzik<sup>3</sup>**  
1: University of Warsaw, Faculty of Geography and Regional Studies, Poland; 2: MGGP Aero, Warsaw, Poland; 3: University of Silesia in Katowice, Faculty of Biology and Environmental Protection
- 10 The Efficiency of Crop Types Differentiation on Multitemporal Optical and Radar Data**  
**Joanna Pluto-Kossakowska, Przemysław Kupidura**  
Warsaw University of Technology, Poland
- 11 Linear Discriminant Analysis of spectral measurements for discrimination between healthy and infected trees of Olea europaea L. by Fomitiporia mediterranea**  
**Anhelina Zapolska<sup>1</sup>, Chariton Kalaitzidis<sup>1</sup>, Emmanouil Markakis<sup>2</sup>, Chrysi Sergeantani<sup>3</sup>, Eleftherios Ligoixigakis<sup>2</sup>, Georgios Koubouris<sup>3</sup>**  
1: Department of Geoinformation in Environmental Management, Mediterranean Agronomic Institute of Chania; 2: Laboratory of Mycology, Department of Viticulture, Vegetable Crops, Floriculture and Plant Health, Institute of Olive Tree, Subtropical Crops and Viticulture, Hellenic Agricultural Organization Demeter; 3: Laboratory of Olive Cultivation, Institute of Olive Tree, Subtropical Crops and Viticulture, Hellenic Agricultural Organization Demeter
- 12 The Comparison of Most Popular Filters for Radar Speckle Suppression**  
**Przemysław Kupidura, Anna Bilny**  
Warsaw University of Technology, Poland
- 13 Temporal Decomposition Of Sentinel-1 Data For Speckle Filtering**  
**Christian Thiel<sup>1</sup>, Felix Cremer<sup>1</sup>, Mikhail Urbazaev<sup>1</sup>, Christian Berger<sup>1</sup>, Christiane Schmuilius<sup>1</sup>, Miguel D. Mahecha<sup>2</sup>, Marcel Urban<sup>1</sup>**  
1: Friedrich-Schiller-University of Jena, Germany; 2: Max Planck Institute for Biogeochemistry, Jena, Germany

## 2<sup>nd</sup> Poster Session (Poseidon Hall) – Tuesday 10/7 15:30 – 16:30

- 1 Separation of different broadleaf tree species using Sentinel-2 time series data in Central European forests**  
**Manuela Hirschmugl**, Klaus Granica, Janik Deutscher, Mathias Schardt  
Joanneum Research, Austria
- 2 Monitoring Conservation Parameters of Natura 2000 Heathland Habitats with UAV-based Camera Systems**  
**Kristin Fenske**, Marion Stellmes, Bjoern Waske  
Freie Universität Berlin, Germany
- 3 Using Archival Aerial Photos in the Assessment of Secondary Succession Process**  
**Katarzyna Osińska-Skotak**<sup>1</sup>, Krzysztof Bakula<sup>1</sup>, Łukasz Jelowicki<sup>1</sup>, Dorota Michalska-Hejduk<sup>2</sup>, Justyna Wylazłowska<sup>2</sup>, Dominik Kopeć<sup>2</sup>  
1: Warsaw University of Technology, Faculty of Geodesy and Cartography, Department of Photogrammetry, Remote Sensing and Spatial Information Systems, Poland; 2: University of Lodz, Department of Geobotany and Plant Ecology, Poland
- 4 Development Of Early Warning System To Identify Forest Fire Danger In Israel**  
**Timea Ignat**<sup>1</sup>, Michael Sprintsin<sup>2</sup>, Anatoly Gitelson<sup>3</sup>, Victor Alchanatis<sup>1</sup>, Arnon Karnieli<sup>4</sup>  
1: Agricultural Research Organization, the Volcani Center, Israel; 2: KKL-JNF's Forest Management and GIS Department; 3: Department of Civil and Environmental Engineering Technion; 4: Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev
- 5 Testing the Norway spruce needle age dependence of the relationships between leaf optical and biochemical traits and soil parameters in the GEOMON watersheds.**  
**Zuzana Lhotáková**<sup>1</sup>, Eva Neuwirthová<sup>1</sup>, Veronika Kopačková<sup>2</sup>, Jana Albrechtová<sup>1</sup>  
1: Charles University, Czech Republic; 2: Czech Geological Survey, Czech Republic
- 6 Innovative Remote Sensing Education on the Reality-Virtuality-Continuum: Exploring Virtual and Augmented Reality for Future Use in Classrooms**  
**Annette Ortwein**, Henryk Hodam, Claudia Lindner, Johannes Schultz, Fabian Selg, Andreas Rienow  
University of Bochum, Germany
- 7 Land Surface Temperature Retrieval of Agricultural Areas using Thermal and Multispectral Sensors mounted on a Fixed-Wing Drone**  
**Sascha Heinemann**<sup>1,2</sup>, Johannes Schultz<sup>2</sup>, Kai Wittneben<sup>1</sup>, Javier Muro<sup>3</sup>, Bastian Siegmann<sup>1</sup>, Christoph Jedmowski<sup>1</sup>, Frank Thonfeld<sup>2,3</sup>, Andreas Kemna<sup>4</sup>, Thomas Udelhoven<sup>5</sup>, Uwe Rascher<sup>1,3</sup>  
1: Forschungszentrum Jülich, Institute of Bio- and Geosciences, Plant Sciences, Germany; 2: University of Bonn, Remote Sensing Research Group, Germany; 3: Center for Remote Sensing of Land Surfaces (ZFL), Germany; 4: University of Bonn, Steinmann-Institut: Geophysics, Germany; 5: University of Trier, Environmental Remote Sensing and Geoinformatics, Germany
- 8 Scientific Applications in the Service of Humanitarian Demining in Croatia**  
**Andrija Krtalic**  
Faculty of Geodesy University of Zagreb, Croatia
- 9 Forest monitoring and forest harvest estimating using RPAS**  
**Karel Pavelka**, Eva Matoušková, **Karel Pavelka jr.**  
Czech Technical University in Prague, FCE, Czech Republic
- 10 Education in Earth Observation for Bulgarian Secondary Schools**  
**Lachezar Filchev**<sup>1</sup>, Ioannis Manakos<sup>2</sup>, **Kalliroti Marini**<sup>2</sup>, Rainer Reuter<sup>3</sup>, Garo Mardirossian<sup>1</sup>, Dimitar Dimitrov<sup>4</sup>, Lubomira Krалеva<sup>1</sup>, **Tsveta Srebrova**<sup>1</sup>, **Pencho Mihnev**<sup>5</sup>  
1: Department of Remote Sensing and GIS, Space Research and Technology Institute, Bulgarian Academy of Sciences, Bulgaria; 2: Information Technologies Institute of the Centre for Research and Technology Hellas, Greece; 3: OpticSense GmbH, Germany; 4: National Institute in Geophysics, Geodesy and Geography, Bulgaria; 5: hFaculty of Mathematics and Informatics, Sofia University "St. Kliment Ohridski", Bulgaria
- 11 Canopy traits for assessment of vegetation function in different agro-ecosystems in SCERIN**  
**Petya Campbell**<sup>1</sup>, Petr Lukes<sup>2</sup>, Zuzana Lhotakova<sup>3</sup>, Lucie Kupkova<sup>3</sup>, **Jana Albrechtova**<sup>3</sup>  
1: Joint Center for Earth Systems Technology, University of Maryland Baltimore County, NASA Goddard Space Flight Center; 2: Global Change Research Institute, Czech Academy of Sciences, Brno, Czech Republic; 3: Charles University, Faculty of Science, Czech Republic
- 12 The use of Copernicus data to support archeological research in the Eastern Mediterranean**  
**Diofantos Hadjimitsis**<sup>1</sup>, **Andreas Christofe**<sup>1</sup>, Athos Agapiou<sup>1</sup>, Argyro Nisantzi<sup>1</sup>, Marios Tzouvaras<sup>1</sup>, Christiana Papoutsas<sup>1</sup>, **Christodoulos Mettas**<sup>1</sup>, Evagoras Evagorou<sup>1</sup>, Kyriacos Themistocleous<sup>1</sup>, Rosa Lasaponara<sup>2</sup>, Nicola Masini<sup>3</sup>, Gunter Schreier<sup>4</sup>  
<sup>1</sup>Eratosthenes Research Centre - Department of Civil Engineering Geomatics, Cyprus University of Technology, Limassol, Cyprus; <sup>2</sup>Institute of Methodologies for Environmental Analysis, National Research Council, Tito Scalco, Italy; <sup>3</sup>Institute of Archaeological Monumental Heritage, National Research Council, Tito Scalco, Italy; <sup>4</sup>Earth Observation Center (EOC), German Aerospace Center (DLR), Wessling, German
- 13 DLR Institute for Data Science: Making Citizen Science Data fit for Use**  
**Friederike Klan**<sup>1</sup>, **Christian Thiel**<sup>2</sup>, Günter Strunz<sup>1</sup>, Christiane Schmuilius<sup>1</sup>, Robert Axmann<sup>1</sup>  
1: German Aerospace Center (DLR), Germany; 2: Friedrich-Schiller-University of Jena, Germany