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Abstracts

Submission Deadline:

31 October 2016

Abstracts can be submitted online at

www.earsel.org/SIG/IS/workshops/10-IS-Workshop/

Acceptance notification will be sent by end of November 2016.

We are looking forward to receiving your submissions.

Contact:

earsel2017@geo.uzh.ch

10th EARSeL Workshop on Imaging Spectroscopy Zürich, Switzerland 19-21 April 2017

EARSeL's Special Interest Group on Imaging Spectroscopy aims at encouraging interdisciplinary discussions among specialists working with innovative Earth Observation methods and technologies.

Imaging spectroscopy is increasingly finding its way into transdisciplinary research aiming to integrate state-of-the-art methods and data analysis concepts in response to today's key environmental and societal challenges.

Besides the discussion of advanced technologies for spectroscopy data processing and analysis, as well as next generation platforms and sensors, the workshop will particularly address integrated approaches in Earth System Science using spectroscopy across all spheres, including the anthroposphere.



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Workshop Topics

Advanced methods for spectroscopy calibration, data processing, and archiving

- Sensor calibration and product validation
- Software systems for imaging spectroscopy
- Big data and data mining
- Inversion schemes and data assimilation
- In-situ, field and laboratory spectroscopy
- Atmospheric compensation techniques
- Spectral databases and information systems
- Very high resolution spectroscopy
- Statistical and computational methods for data analysis

Integrated approaches in Earth System Science using spectroscopy

- Combined use of Earth Observation technologies (LiDAR, SAR, etc. and spectroscopy)
- Forward and inverse modeling of spheres
- Sphere specific analysis methods (atmosphere, biosphere, hydrosphere, lithosphere, geosphere, anthroposphere)
- Ecosystem processes and functions in vegetated ecosystems, soils, snow&ice, atmosphere, coastal and inland waters, urban areas
- Scaling, interactions and feedback mechanisms between and across spheres
- Transdisciplinary applications using Soil- and Ecosystem Services (ESS)
- Spectroscopy in the context of societal challenges (water scarcity, food security, biodiversity loss, etc.)

Next generation platforms and sensors

- Spectroscopy from ground, drone, air- and spaceborne platforms
- Visible, near-, mid- and thermal infrared spectral and multi-angular spectral measurements
- Emerging concepts, technologies and missions