

WHISPERS 2023

WHISPERS Day 1

	31 Oct. 2023	31 Oct. 2023	31 Oct. 2023
Time	Conference room A	Conference room B	Conference room C
8:0-9:00		Registration	
9:00- 9:30	Welcome		
9:30-10:15	Planery 1-A		
10:15-11:00	Planery 1-B		
11:00-11:40	Break (Potter Presentation 1)		
11:40-13:20	Classification	Water, Ice, and cloud	Precision Agriculture and Crop Mapping
13:20-14:20		Lunch	
14:20-15:00	Potter Presentation 2		

Time	Conference room A	Conference room B	Conference room C
15:00-16:40	Unmixing 1	UAV/ Drone	Forest and Vegetation
16:40-17:20	Break (Potter Presentation 3)		
17:20-19:00	Denosing/ Restoration/Enhancement	Geology and Soil	Data Processing and Advanced Algorithms 1
19:00-20:00		Networking	

WHISPERS 2023

WHISPERS Day 2

	1 Nov. 2023	1 Nov. 2023	1 Nov. 2023
Time	Conference room A	Conference room B	Conference room C
8:30- 9:30		Registration	
9:30-10:15	Planery 1-A		
10:15-11:00	Planery 1-B		
11:00-11:40	Break (Potter Presentation 1)		
11:40-13:20	Object Tracking / Challenge 2	Deep Learning for Analysis of Hyperspectral Data	Segmentation/ Clustering
13:20-14:20		Lunch	
14:20-15:00	Potter Presentation 2		
15:00-16:40	Emerging topics in industrial applications	Unmixing 2	Urban Remote Sensing

Time	Conference room A	Conference room B	Conference room C
16:40-17:20	Break (Poster Presentation 3)		
17:20-19:00	Mineralogy and Mining Industry	spectral imaging and 3D technologies	Machine Learning for Analysis of Hyperspectral Data
19:00-20:00	Award Ceremony		

WHISPERS 2023

WHISPERS Day 3

	2 Nov. 2023	2 Nov. 2023	2 Nov. 2023
Time	Conference room A	Conference room B	Conference room C
8:30- 9:15		Registration	
9:15-10:00	Planery 1-A		
10:00-11:00	DESI 1	cultural heritage with hyperspectral sensing	biomedical applications
11:00-11:40	Break (Potter Presentation 1)		
11:40-13:20	DESI 2	Fusion	Target/Anomaly Detection
13:20-14:20		Lunch	
14:20-15:00	Potter Presentation 2		
15:00-16:40	DESI 3	Data Processing and Advanced Algorithms 2	PRISMA

Time	Conference room A	Conference room B	Conference room C
16:40-17:20	Break (Poster Presentation 3)		
17:20-18:20	DESI 4	Challenge 1	Online Posters 1
18:20-19:00	Online Posters 2	Online Posters 3	Online Posters 4
19:00-20:00	Networking		

	Classification	
43	Mohammed Alkhatib, Mina Al-Saad, Nour Aburaed, Mohammad Sami Zitouni and Hussain Al Ahmad	ATTENTION BASED DUAL-BRANCH COMPLEX FEATURE FUSION NETWORK FOR HYPERSPECTRAL IMAGE
133	Chiranjibi Shah and Qian Du	ATTENTION AWARE GENERATIVE ADVERSARIAL NETWORK FOR HYPERSPECTRAL IMAGE CLASSIFICATION
227	Amir Hosein Oveis, Elisa Giusti, Giulio Meucci, Selenia Ghio and Marco Martorella	EXPLAINABILITY IN HYPERSPECTRAL IMAGE CLASSIFICATION: A STUDY OF XAI THROUGH THE SHAP
65	Yuheng Jin and Minchao Ye	CROSS-DOMAIN HETEROGENEOUS HYPERSPECTRAL IMAGE CLASSIFICATION BASED ON META-LEARNING WITH
66	Tian-Yu Ma, Heng-Chao Li, Yu-Bang Zheng and Qian Du	Fully Tensorized Convolutional Long Short-Term Memory for Hyperspectral Image Classification
	water,ice,cloud	
262	Maximilian Langheinrich and Raquel de Los Reyes	THE ENMAP L2A WATER PROCESSOR: OPERATIONAL PERFORMANCE AND APPLICATION OF ENMAP DEDICATED
97	Benjamin A. Lange, T. Dylan Mikesell, Taeheon Kim and Luke Griffiths	Investigating minerology and water-ice content of lunar regolith simulants using hyperspectral imagery
98	Benjamin Lange, Ilkka Matero, Evgenii Salganik, Karley Campbell, Janina Osanen, Christian Katlein, Philipp Anhaus, Jessie Gardner, Rolf Gradinger, Clara J M Hoppe, Eva Leu, Oliver Muller, Marcel Nicolaus, Lasse M Olsen,	Characterizing spatio-temporal variability of bio-physical sea ice properties using an underwater hyperspectral imager
222	Jon A. Justo, Joseph Garrett, Dennis D. Langer, Marie B. Henriksen, Radu T. Ionescu and Tor A. Johansen	An Open Hyperspectral Dataset with Sea-Land-Cloud Ground-Truth from the HYPSON-1 Satellite
28	Hamid Ghanbari, Alexandre Baud, Candice Aulard, David Zilkey, John P. Smol, Irene Gregory-Eaves and Dermot	Hyperspectral imaging of lake sediment cores to reconstruct past environments

Precision Agriculture and Crop Mapping

238	Harsha Chandra and Rama Rao Nidamanuri	Development of an Object -Based Spectral Library and automated crop mapping using deep learning
75	Louise Leclère, Yannick Curnel, Philippe Vermeulen, François Stevens, Benoit Scaut, Damien Malice, Maxime Troiani, Nicolas Chamberland, Vincent Baeten and Viviane	SPAGHYTI – development of crop applications based on hyperspectral satellite imagery
91	Dong Wang, Paul Struik, Lei Liang and Xinyou Yin	Enhancing field-level forecasting of crop growth status by incorporating the analytically estimated system uncertainties into a
242	Anagha S Sarma and Rama Rao Nidamanuri	ACTIVE LEARNING-ENHANCED PLANT-LEVEL CROP MAPPING WITH DRONE HYPERSPECTRAL IMAGING AND
246	K C Indu, C. V. S. S. Manohar Kumar, S Pankaj Dhanya and Nidamanuri Rama Rao	Automatic Object Based Plant-level Crop Segmentation in Drone-based Hyperspectral Imagery

Unmixing 1

209	Behnood Rasti	FASUN: FAST SEMI-SUPERVISED UNMIXING USING ALTERNATING DIRECTION METHOD OF MULTIPLIERS
1	Zhiqing Zhu, Yuanchao Su, Mengying Jiang, Bin Pan, Jinying Bai and Pengfei Li	SPECTRAL-SPATIAL HYPERSPECTRAL UNMIXING USING DOUBLE-CONSTRAINTS CONVOLUTIONAL AUTOENCODER
27	Jiming Tang, Wenxing Bao, Bingbing Lei, Kewen Qu and Wei Feng	Spatial-Spectral Weighted Sparse Multi-layer Nonnegative Matrix Factorization for Hyperspectral Image Unmixing
55	Julia Lascar, Jérôme Bobin and Fabio Acero	SUSHI: Learning-based hyperspectral image unmixing with
265	Soorya Suresh and Arun P V	SPECTRAL UNMIXING IN GENERATIVE SPACE: 3D-GAN

UAV/ Drone

45	Ulrike Pestel-Schiller, Johannes Busch and Jörn Ostermann	GAIN ADAPTED QUANTIZATION IN HEVC CODING APPLIED TO DRONE REMOTE SENSING
46	Marco Balsi, Soufyane Bouchelaghem, Livio Conti, Monica	Real-time plastic litter detection using hyperspectral sensing on
70	K C Indu, C. V. S. S. Manohar Kumar, S Pankaj Dhanya and Nidamanuri Rama Rao	Automatic Object based Plant-level Crop Segmentation in Drone-based Hyperspectral Imagery
148	Michiel Vlamincck, Zakaria Bnoukacem, Gonzalo Luzardo, Hamed Zivariadab, Zohreh Zahiri, Bikram Koirala, Frédéric Mangialetto, Irid Bufi, Ljiljana Platisa, Murali Jayapala,	Drone-based corrosion detection on high-voltage transmission towers using hyperspectral imaging
208	Adduru U G Sankararao, Saikiran K and Rajalakshmi	Hyperspectral Image Denoising: A Comparative Study On UAV

Forest and Vegetation

3	Kimmo Riihiahho, Leevi Lind, Pauliina Salmi and Ilkka	HyperBlend: Hyperspectral Vegetation Simulation from Microalgae
68	B R Aarsha, C. V. S. S. Manohar Kumar, S Pankaj Dhanya and Nidamanuri Rama Rao	Invasive Plant Species Detection in Airborne Hyperspectral Imagery Over Complex Forest Landscape
49	Erika Piäser, Andrea Berton, Michele Caccia, Francesca Gallivanone, Giovanna Sona and Paolo Villa	Influence of canopy structure and illumination geometry on spectral anisotropy of aquatic vegetation in ultra-high resolution
257	Steven Le Moan, Jean-Baptiste Thomas, Marie-Anne Blanchet, Virve Ravolainen and Puneet Sharma	Remote Sensing in Svalbard for Animal and Vegetation Monitoring: Challenges and Perspectives

14	Anna Jarocińska, Jan Niedzielko, Dominik Kopeć, Justyna Wylazłowska, Bozhena Omelianska and Jakub Charyton	Testing Textural Information Base on LiDAR and Hyperspectral Data for Mapping Wetland Vegetation: A Case Study of Warta
Denoising/ Restoration/Enhancement		
207	Cong Wang, Yahui Xiu and Zhao Chen	Cyclone Intensity Prediction via Multispectral Image Sharpening
78	Lina Zhuang, Michael Ng, Lianru Gao, Joseph Michalski and Zhicheng Wang	Eigenimage2Eigenimage (E2E): A Self-supervised Deep Learning Network for Hyperspectral Image Denoising
13	Sadia Hussain and Brejesh Lall	Hyperspectral Image Super-resolution via Denoising Diffusion
50	Bilge Yazıcı, Yücel Çimtay and Bedrettin Çetinkaya	A New Hyperspectral Multi-Level Synthetic Hazy Image Dataset for Benchmark of Dehazing Methods
51	Peizeng Lin, Xinru Jiang and Lei Sun	Hyperspectral Image Denoising via Cosine Transform-Based Tensor Subspace Representation
Geology and Soil		
161	Arun P. V., Maitreya Mohan Sahoo, Alok Porwal and Arnon	Deep-learning-based latent space encoding for spectral unmixing
162	Maitreya Mohan Sahoo, R. Kalimuthu, Arun P.V., Alok Porwal and Shibu K. Mathew	Modelling Spectral Unmixing of Geological Mixtures: An Experimental Study Using Rock Samples
25	Lihan Chen, Kun Tan, Xue Wang and Chen Pan	ESTIMATION SOIL ORGANIC MATTER USING AIRBORNE HYPERSPECTRAL IMAGERY
247	Manohar Kumar C. V. S. S., Rama Rao Nidamanuri and	Sub-pixel Discrimination of Soil and Crop in Drone-based
243	Ketaki Vinay Jambhali, Bikram Koirala, Zakaria	Soil moisture content estimation from hyperspectral remote
Data Processing and Advanced Algorithms 1		
34	Gulsen Taskin, E. Fatih Yetkin and Gustau Camps	A Scalable Unsupervised Feature Selection With Orthogonal Graph Representation for Hyperspectral Images
90	Martin Bachmann, Emiliano Carmona, Uta Heiden, Stefanie Holzwarth, David Marshall, Miguel Pato, Raquel de Los Reyes and Rupert Müller	Operational quality control for spaceborne hyperspectral sensors – on the spectral and radiometric quality of hyperspectral data products and the related influences on higher-level processing
252	Chanki Park, Seungyoon Nam, John Lorenzo Bautista and	Fast Zero-phase Line Enhancer for Quasi-periodic Signal
195	Dario Scilla, Victor Angulo, Kasper Johansen and Matthew McCabe	GEOMETRIC CORRECTION OF THE KAUST-SAT HYPERSPECTRAL CUBESAT: PRELIMINARY ASSESSMENT
110	Zohreh Zahiri, Steven Thijs, Carolina Blanch and Wouter Charle	A NEW APPROACH FOR SPECTRAL ADJUSTMENT AND WHITE BALANCING OF THE OUTDOOR HYPERSPECTRAL
Segmentation/ Clustering		
57	Kasra Rafiezadeh Shahi, Jeremy Eudarc, Andrés Camero and Heidi Kreibich	The application of multi-scale deep clustering network for flood mapping using Sentinel-1 SAR data
29	Xiao Li, Hengyou Wang and Lian-Zhi Huo	ICSS: SEMANTIC SEGMENTATION OF REMOTE SENSING IMAGES BASED ON IMAGE INPAINTING AND CONTRAST
119	Anant Bhamri, Anthony Medellin, Reza Langari and Swaminathan Gopalswamy	Real-Time Semantic Segmentation using Hyperspectral Images for Unstructured and Unknown Environments
83	Elias Arbash, Andréa de Lima Ribeiro, Sam Thiele, Nina Gnann, Behnood Rasti, Margret Fuchs, Pedram Ghamisi	Masking Hyperspectral Imaging Data With Pretrained Models
Object Tracking/Challenge 2		
Summary of the Challenge		
230	Ye Wang, Yuheng Liu, Mingyang Ma, Yuru Su and Shaohui Mei	HSPTRACK: HYPERSPECTRAL SEQUENCE PREDICTION TRACKER WITH TRANSFORMERS
217	Hongjiao Liu, Jiayue He, Jinpeng Wang, Nan Su, Chunhui Zhao, Yiming Yan, Shou Feng, Ze Liu, Jianfei Liu and	Multi-Band Hyperspectral Object Tracking: Leveraging Spectral Information Prompts and Spectral Scale-Aware representation
221	Rafał Muszyński and Hiep Luong	HELIOS: HYPERSPECTRAL HINDSIGHT OSTRACKER
210	Simiao Lai, Dong Wang and Huchuan Lu	VISUAL PROMPT FOR HYPERSPECTRAL OBJECT TRACKING
Deep Learning for Analysis of Hyperspectral Data		
155	Yunus Emre Koc, Cameron Penne, Joseph Garrett and Milica Orlandic	Exploration of Deep Learning for Cloud Segmentation in Multispectral and Hyperspectral Satellite Imagery
156	Aksel Gundersen, Samuel Boyle and Milica Orlandic	An Improved Adaptive Weighted Deep Belief Network Autoencoder for Hyperspectral Images
167	Arvind Kumar Singh, Renuvenkataswamy Sunkara and Prof.Kadambi Govind R	Hyperspectral Band Selection based on Spectra Division and Deep Convolutional Neural Network
272	Miao He, Fangfang Xia and Rick Stevens	Deep Fair Partition for Hyperspectral Image Classification
48	Eya Cherif, Teja Kattenborn and Hannes Feilhauer	Revealing uncertainty in Deep Learning-based predictions of plant properties from hyperspectral imagery
Emerging topics in industrial applications		
143	Anna-Maria Raita-Hakola, Heikki Saari, Annamari Ranki and Ilkka Pölonen	Towards optical skin biopsy - lessons learned from developing spectral 3d imager for skin cancer detection

21	Teemu Kääriäinen and Timo Dönsberg	Letter Vol. 46, No. 22 / 15 November 2021 / Optics Letters 5533 Active hyperspectral imager using a tunable supercontinuum light source based on a MEMS Fabry–Perot interferometer
56	Philippe Monnoyer	Bridging the Spectrum: Making Hyperspectral Imaging Accessible
77	Leevi Annala, Arto Klami, Fanny Widjaja, Priscille Steensma, Katerina Zitkova and Kirsi S. Mikkonen	Hyperspectral imaging and self-supervised machine learning in laboratory controlled food science research
106	Ronny Schubert, Lynn V. Reuss, Daniel Staps, Marika Kaden, Thomas Villmann, Robert Hasler, Robin Herz, Till	A white-box workflow for the prediction of food content from Near-Infrared Data based on Fourier-Transformation

Unmixing 2

138	Jia Chen, Jun Li and Paolo Gamba	A Multi-tasks Autoencoder Hyperspectral Unmixing Model with Information Gain based on Graph Network
166	Fadi Kizel and Yulia Vidro	An unmixing-based BRDF correction in spectral remote sensing
61	Xinru Jiang, Lei Sun and Peizeng Lin	Local Sparsity Blocks and Tensor Low Rank Regularized Sparse
37	Bikram Koirala, Behnood Rasti, Zakaria Bnoukacem and	Describing intimate mixtures by Bézier surfaces
181	Çağatay Esi, Alp Ertürk and Moussa Sofiane Karoui	UNMIXING WITH SPECTRAL VARIABILITY FOR MARINE

Urban Remote Sensing

237	P Nijitha, C. V. S. S. Manohar Kumar, S Pankaj Dhanya and Nidamanuri Rama Rao	Solid Waste Detection and Waste-material Characterization in Urban Environment at Subpixel Level in Airborne Hyperspectral
271	Parth Naik and Daniele Vettorato	A Hyspec-Unet Deep Learning Model For Segmentation Of Urban Micro-Climate Essential Class Features From Hyperspectral Data
82	Tahraoui Ahmed, Radja Kheddami and Aichouche Belhadj Aissa	Sustainable agricultural lands management by analyzing and predicting urban growth— a case study of Mitidja Plain, Algeria
179	William Basener, Jade Preston, Meesun Yang, Michael Luegering and Abigail Basener	Ongoing collection of hyperspectral, LiDAR, and growth stage fundamental signatures for vegetation phenotyping and large
251	Giannis Lantzanakis, Dimitris Poursanidis, Nektarios Chrysoulakis, Andreas Christen, Sue Grimmond and Joern	Identification of urban surface materials using the urbisphere hyperspectral library for EnMap and PRISMA in the city of

Mineralogy and Mining Industry

245	Samiran Das, Pedram Ghamisi and Richard Gloaguen	OPEN GEOLOGY DATABASE (OGD): AN INTEGRATED PLATFORM FOR GEOLOGICAL, MINING, AND SEISMIC
24	Carsten Laukamp, Matilda Thomas and Ian C. Lau	Review of currently available multispectral and hyperspectral imaging spectroscopy satellite sensors for critical minerals
35	Anders Karlsen and Hans Vejbjørn Nordhagen	Practical Applications of Mineral Detection Through Remote
116	Sandeepan Dhoundiyal, Arun P. V., Alok Porwal and Guneswar Thangjam	An interpretable open-set framework for mapping minerals using CRISM hyperspectral data
52	Frédéric Schmidt, Sébastien Bourguignon, Joanna Gurgurewicz, Gaspard Salomon and Daniel Mège	MINERALOGY ANALYSIS USING LINEAR UNMIXING UNDER GROUP CONSTRAINT

spectral imaging and 3D technologies

203	Jonathan González Santiago, Wolfgang Gross, Fabian Schenkel and Wolfgang Middemann	DEEP SELF-SUPERVISED IMAGE DENOISING FOR JOINT HYPERSPECTRAL-LIDAR CLASSIFICATION
31	Aldino Rizaldy, Ahmed J. Afifi, Pedram Ghamisi and	Transformer-based Models for Hyperspectral Point Clouds
47	Bangyan Hu, Xian Li and Tianzhu Liu	MULTISPECTRAL POINT CLOUD CLASSIFICATION NETWORK BASED ON MULTILATERAL ATTENTION
269	Songxiang Yang, Lin Ma and Danyang Qin	Semantic-Guided Point Cloud Upsampling Method for Visual
158	Markus Sebastian Storeide and Sony George	Pixel-based Vertex Clustering for Spectral Data Enrichment of

Machine Learning for Analysis of Hyperspectral Data

176	Corentin Feray, Stéphane Jacquemoud and Paul Honeine	Hyperspectral characterization of soil matrix effects by coupling physical models and machine learning methods
197	Marina Ranghetti, Mirco Boschetti, Francesco Nutini, Micol Rossini and Gabriele Candiani	ASSESSING WHEAT YIELD AND GRAIN PROTEIN CONTENT WITH MACHINE LEARNING AND SATELLITE HYPERSPECTRAL DATA: MULTI-YEAR EXPLORATIVE
123	Alvaro Flores-Romero, Steven Le Moan, Joseph Garrett	Chlorophyll Estimation on HYPSON-1 Using Ensemble Machine
268	Arthur Ricardo Sousa Vitória, Arlindo Rodrigues Galvão Filho, Clarimar Coelho, Raylane Pereira Gomes and Lilian	BACTERIA GRAM STAINING DIFFERENTIATION USING HYPERSPECTRAL IMAGING AND MACHINE LEARNING
150	Bonthu Sandeep Reddy and Shwetha Hassan Rangaswamy	Harnessing the Potential of Synthesised Soil Spectral Library for Estimation of Total Nitrogen: A Machine Learning Approach

DESI 1

256	Paul Karlshöfer, Xiangyu Zhao and Uta Heiden	Temporal compositing using the hyperspectral DESIS image
20	Andrew Skidmore, Haidi Abdullah, Andjin Siegenthaler, Devara P Adiningrat, Yiwei Duan, Mélody Rousseau, Alejandra Torres Rodriguez, Roshanak Darvishzadeh,	From Pixels to Microbes: Harnessing Image spectroscopy DESIS data and eDNA for Forest Microbiome Mapping
44	Xiangyu Zhao, Uta Heiden, Paul Karlshoefer, Zhitong	Estimating Soil Parameters from DESIS Images using Deep

cultural heritage with hyperspectral sensing

274	Dipendra Jee Mandal, Hilda Deborah, Sony George and Jon Yngve Hardeberg	Unsupervised clustering for works of art using hyperspectral imaging: A case study on Edvard Munch's Self-Portrait (1905)
264	Jizhen Cai, Clotilde Boust and Alamin Mansouri	An expert-inspired multimodal methodology for pigment
92	Hilda Deborah, Chiara Palandri and Giulia Oretti	ESTIMATING THE COLOR PALETTE OF ORTELIUS' ATLAS: A CASE STUDY OF HYPERSPECTRAL IMAGING FOR RAPID

biomedical applications

154	Silvia Seidlitz, Alexander Studier-Fischer, Maximilian Dietrich, Ayca Elise von Garrel, Katharina Hölzl, Felix	Shedding Light on Hidden Factors: Unveiling Biases in Medical Hyperspectral Images
182	Arlindo Rodrigues Galvão Filho, Laryssa Rosset Provensi, Lucimar Pinheiro Rosseto and Clarimar José Coelho	Quality control based on species classification of herbal medicines using hyperspectral imaging and machine learning
183	Adriel Mori, Arthur Vitória, Arlindo Rodrigues Galvão Filho	Hyperspectral Imaging classification of fungal species based

DESIS 2

81	Yang Mu, Muhammad Shahzad and Xiao Xiang Zhu	From Pixels to Species: Empowering Forest Tree Species Mapping with DESIS Hyperspectral Images Using Deep Learning
86	Sebastian Roessler, Andreas Dietz, Laura Obrecht and	Detection of Snow Pollution in the Chilean Andes using DESIS
93	Raquel de Los Reyes, Maximilian Langheinrich, Kevin Alonso, Martin Bachmann, Emiliano Carmona, Uta Heiden	Inter-comparison of DESIS L2A BOA surface reflectance in overpasses with Sentinel-2, Landsat and CalVal sites.
96	David Marshall, Kevin Kühl, Uta Heiden, Martin Bachmann and Thomas Schmid	A Comparison of Fractional Vegetation Cover in Camarena, Spain from DESIS and EnMAP Observations
107	Emiliano Carmona, Martin Bachmann, Raquel de Los Reyes, Uta Heiden, David Marshall and Rupert Müller	Calibration of the DESIS Instrument
	Fusion	
260	Veronica Grazia Morelli, Mirko Paolo Barbato, Flavio Piccoli and Paolo Napoletano	MULTIMODAL FUSION METHODS WITH VISION TRANSFORMERS FOR REMOTE SENSING SEMANTIC
41	Jiaxin Li, Ke Zheng, Li Ni and Lianru Gao	A NEW UNSUPERVISED NETWORK FOR HYPERSPECTRAL AND MULTISPECTRAL IMAGE FUSION
100	Hui Zhao, Sicong Liu and Qian Du	Novel Cross-Resolution Feature-Level Fusion for Joint Classification of Multispectral and Panchromatic Remote Sensing
160	Minghua Wang, Bing Zhang, Jiaxin Li, Longfei Ren and	A Feature Fusion-Based Transformer Network for Hyperspectral
7	Dan Pineau, François Orioux and Alain Abergel	Exact Solution for Multispectral and Hyperspectral Fusion via

Target/Anomaly Detection

73	Longfei Ren, Minghua Wang, Xu Sun, Lianru Gao and Min Huang	HYPERSPECTRAL ANOMALY DETECTION VIA NONCONVEX LOW-RANK REPRESENTATION
80	Degang Wang, Lina Zhuang, Lianru Gao, Xu Sun, Min Huang and Antonio Plaza	BockNet: Blind-Block Reconstruction Network with a Guard Window for Hyperspectral Anomaly Detection
241	Xiaolin Han, Yijie Wei, Huan Zhang, Qizhi Xu and Weidong	TUNING TO REAL FOR SINGLE-SPECTRUM
63	Lidan Xu, Zebin Wu, Jin Sun, Yi Zhang and Zhihui Wei	A DISTRIBUTED HYPERSPECTRAL TARGET DETECTION ALGORITHM BASED ON BACKGROUND RECONSTRUCTION
111	Si-Sheng Young, Chia-Hsiang Lin and Jhao-Ting Lin	CiDAR-Former: Cosine-weighting deep abundance reconstruction transformer for fast unsupervised hyperspectral anomaly detection

DESIS 3

125	Robert Ryan, Mary Pagnutti, Kara Burch, Heath Lester, Hannah Ryan and Kimberly Manriquez	Hyperspectral Moderate Resolution Night Light Observations using DESIS
177	Mbali Mahlayeye, Roshanak Darvishzadeh and Andy	Assessing the potential of DESIS hyperspectral data to
186	Yue Wang, Lola Suarez, Dongryeol Ryu, Peter Moar and Pablo Zarco-Tejada	NUTRIENT ASSESSMENT IN ALMOND ORCHARDS FROM THE SPACEBORNE DESIS IMAGING SPECTROMETER
255	Meenakshi Kumari and Dr.Dericks Praise Shukla	Forest species classification and identification using DESIS data.
258	Felix Feckler	DESIS L2A ARD data discovery and access via Geoservice STAC

Data Processing and Advanced Algorithms 2

23	Lin Wang and Zhiwei Gong	FPGA Implementation of SGA Based on Recursive Orthogonal
141	William Basener and Wesley Basener	Bayesian Gaussian Process for Correcting Artifacts From Atmospheric Correction and Sensor Noise - A Performance
99	Sindy Sterckx, Iskander Benhadj, Stefan Adriaensen, Joris Blommaert, Jan Dries, Tom Van Roey and Stefan Livens	Ensuring Data Quality and Consistency in Spaceborne Hyperspectral Missions: Introducing CalibrEO
62	Xavier Lenot, Thierry Erudel, Bruno Lafrance, Sophie Coustance, Camille Desjardins, Damien Rodat and Aimé	CORATHYP: A NEW ATMOSPHERIC CORRECTION TOOL FOR SATELLITE HYPERSPECTRAL IMAGING
10	Prasad Thenkabail, Itiya Aneece, Pardhasaradhi	Hyperspectral Narrowband Data Propel Gigantic Leap in the Earth

PRISMA

234	Mamta Chauhan, Giorgio Antonino Licciardi and Tapete Deodato	PRISMA BASED STUDY OF NIDAR OPHIOLITES AS MARTIAN ANALOGUES FOR SERPENTINIZATION
254	Riccardo Musto, Alessia Tricomi, Roberta Bruno and Giorgio Pasquali	ADVANCING PRISMA PANSHARPENING: A DEEP LEARNING APPROACH WITH SYNTHETIC DATA PRETRAINING AND

248	B Santhisree, N Raghavender, P K Saritha, Licciardi Giorgio, Sacco Patrizia and Tapete Deodato	ASSESSMENT OF RESOURCESAT-2A LISS-3 RADIOMETRIC CALIBRATION ACCURACY WITH NEAR SIMULTANEOUS
128	Alvise Ferrari, Giovanni Laneve, Rajesh Vanguri and	Monitoring methane emissions from landfills using PRISMA
146	Paola Manzari, Veronica Camplone, Angelo Zinzi, Eleonora Ammannito, Francesco Zucca, Giuseppe Sindoni	EXPLOITING PRISMA HYPESPECTRAL DATA TO SUPPORT CRISM MEASUREMENTS ON PALEO-HYDROLOGICAL
	DESIS 4	
249	Theodoros Tsatsoulis, Nikolaos Tsakiridis, Konstantinos Karyotis and George Zalidis	Assessing Machine Learning Models for Soil Property Prediction Using Resampled Spectral Data: Implications for Hyperspectral
88	Theodoros Tsatsoulis, Nikolaos Tsakiridis, Konstantinos Karyotis and George Zalidis	Transferability of Machine Learning Models for Soil Properties on LUCAS Topsoil Spectral Libraries

Challenge 1

229	Yuheng Liu, Ye Wang, Yifan Zhang and Shaohui Mei	MMGLOTS: Multi-modal Global-local Transformer Segmentor For Remote Sensing Image Segmentation
235	Jiaqi Zou, Zhuohong Li, Fangxiao Lu, Wei He and	Multimodal unsupervised domain adaptation for remote sensing
231	Huilin Zhao, Chuan Chen and Cong Xia	MULTIMODAL REMOTE SENSING NETWORK

Online Posters

180	Zhaoyue Wu, Xuanwen Tao, Mercedes E. Paoletti, Juan M. Haut, Rafael Pastor-Vargas and Antonio Plaza	DEEP UNROLLING NETWORK WITH ACTIVE DICTIONARY LEARNING FOR HYPERSPECTRAL ANOMALY DETECTION
4	Irma Caraballo Alvarez, Christian Haselwimmer and Toni	Hyperspectral Technologies for Site Assessment and Remediation
9	Catherine Parry, Richard Gill, Colin Turnbull and Laura Barter	Hyperspectral bioindicators of pollination in Oilseed rape to track and mitigate pollination deficits
15	Nick Tachmazidis, George Karagiannis, Stamatios Amanatiadis and Eleni Pavlidou	The Application of Non-Destructive Analytical Techniques for the Characterization of Modern Artistic Materials: A Case Study on the Works of N G Pentzikis
19	Zhe Meng, Qian Yan, Feng Zhao and Miaomiao Liang	Hyperspectral Image Classification with Dynamic Spatial-Spectral
101	Jue Zhang, Jiankun Hu and Xiuping Jia	LEARNING DISCRIMINATIVE FEATURES WITH ATTENTION BASED DUAL-STREAM DECODER FOR WEAKLY
145	Li-Hao Han and Geng-Ming Jiang	FY-3E HIRAS-II CHANNEL SELECTION FOR TEMPERATURE AND HUMIDITY PROFILE RETRIEVAL USING PRINCIPAL COMPONENT ANALYSIS AND WEIGHTING FUNCTIONS
168	Akhil Galla, Samrat B, Nithish Reddy Banda, Arun Pv and Alok Porwal	EFFICIENT GRAPH FORMULATION AND LATENT SPACE INTEGRATION FOR LUNAR HYPERSPECTRAL IMAGE
172	Nithish Reddy Banda, Akhil Galla, Samrat B, Mrinmoy Ghorai and Dr. Arun Pv	SPECTRAL UNMIXING USING SHAPE-DRIVEN BLIND DECONVOLUTION IN CONVOLUTIONAL AUTOENCODER
202	Zhe Meng, Qian Yan, Feng Zhao and Miaomiao Liang	Multi-Scale Feature Attention and Transformer for Hyperspectral
204	Elif Ozlem Yilmaz, Taskin Kavzoglu, Ismail Colkesen, Hasan Tonbul and Alihan Teke	A MULTI-STAGE METHODOLOGY FOR EXTRACTING POPLAR PLANTED FIELDS FROM VERY HIGH-RESOLUTION IMAGERY USING OBJECT-BASED IMAGE ANALYSIS AND FEATURE
165	Aby Mathai, Alex Mathew and Gnanappazham Lakshmanan	BHITARKANIKA MANGROVE SPECIES CHANGE DETECTION USING HYPERSPECTRAL REMOTE SENSING AND FIELD
108	Yun Cheng, Yang-Jun Deng, Wei-Ye Wang, Chen-Feng	Locality Preserved MLP for Hyperspectral Image Classification

Posters Day1

Applications 1

136	Halal Abdulrahman Ahmed and Fattah Alizadeh	Indoor Sign Recognition System for Visually Impaired People
152	Steven Le Moan and Ivar Oveland	Application of Large Colour Checker for Calibration of Remote
115	Dennis Langer, Simen Berg, Joseph Garrett, Roger Birkeland, Sivert Bakken, Tor Arne Johansen and Asgeir	Agile Smallsat Operation Tool-Chain Development: HYPISO-1 hyperspectral earth observation experiences
164	Martine Lussier and Michaela Skulinova	UV-Hyperspectral Imaging as a Tool for the Rapid Non-Destructive Quality Inspection of Produce
188	Momtanu Chakraborty, Damian Oswald, Sirapoom Peanusaha, Alireza Pourreza, Patrick Brown and Sat	Nitrogen retrieval by spectral sensing in almonds
191	Prabakar Ravichandran, Keshav Singh, Coralie Scissons, Keshav Dahal and Hongquan Wang	Estimation of leaf nitrogen content with leaf spectrometer in potatoes
270	Frederik Tack, Alexis Merlaud, Thomas Ruhtz, Anca Nemuc, Dirk Schuettemeyer and Michel Van Roozendael	Assessment of the TROPOMI tropospheric NO ₂ product based on recurrent airborne campaigns
253	Lucian Ratoiu and Luminita Ghervase	Non-invasive investigations of a 17th century Mercator hand-coloured engraved map
206	Jade Preston and William Basener	PREDICTING FOOD INSECURITY IN AFRICA FROM MODIS IMAGERY, DEMOGRAPHICS, ECONOMIC FACTORS, CLIMATE, AND SUPPLY CHAIN INFORMATION
132	Rishika Porandla	QECM-2: A novel visualization of the influence of Earth's precession index variations on the insolation, precipitation, and

105	Vincent Leroy, Yvan Nollet and Yves Govaerts	Hyperspectral simulations with the Eradiate radiative transfer model: introduction and examples of applications
112	Emiliano Carmona, Martin Habermeyer, Helmut Muehle,	The EnMAP Ground Segment user services and products
113	Carolina Blanch-Perez-del-Notario, Steven Thijs and Murali Jayapala	BAND RELEVANCE STUDY OF SWIR HYPERSPECTRAL IMAGING FOR MATERIAL RECYCLING AND REUSE
120	Binu Melit Devassy and Sony George	FORENSIC DOCUMENT ANALYSIS USING HYPERSPECTRAL IMAGING AND DEEP CONVOLUTIONAL SPECTRAL
239	Fabrizio Tadina and Jason Howse	A new Advanced Single Detector VIS-SWIR spectrometer for scientific and commercial use

Data Processing and Advanced Algorithms 1

139	Tianwei Zhang, Xu Sun, Lina Zhuang, Lianru Gao and Bing	FFN:Fountain Fusion Net for Arbitrary-Oriented Object Detection
211	Shaoxiong Xie, Jia Li, Lin Zhao, Wenjing Hu, Guoyun	VP-HOT : VISUAL PROMPT FOR HYPERSPECTRAL OBJECT
212	Haijiao Xing, Wei Wei, Lei Zhang, Guochao Chen and	A Visual Prompt Learning Network for Hyperspectral Object
223	Yuqing Ji, Hailong Wu, Xinyi Liang, Hangyun Liu, Ding Zhu and Jiaojiao Li	DHFN: A Dual-branch Network with Hybrid Fusion for Spatial-aware Hyperspectral Object Tracking
224	Zhaoxu Li, Gaowei Guo, Xu He, Qingyu Xu, Wei Wang, Qiang Ling, Zaiping Lin and Wei An	RawTrack: Toward Single Object Tracking on Mosaic Hyperspectral Raw Data
214	Mohammad Aminul Islam, Wangzhi Xing and Jun Zhou	Multi Modality Siamese Feature Fusion Transformer Tracker for Object Tracking from Hyperspectral Videos
213	Yuedong Tan, Wenfang Sun, Jieran Yuan, Wenwang Du, Zhe Wang, Nan Mao and Beibei Song	HHTRACK: HYPERSPECTRAL OBJECT TRACKING BASED ON HYBRID ATTENTION
219	Songling Zhu, Yinan Wu and Ronghua Shang	Cross-domain Feature Learning for Hyperspectral Object Tracking
220	Huihui Guo, Yang Xu, Zebin Wu and Zhihui Wei	HYPERSPECTRAL VIDEO TRACKER BASED ON ANOMALY SUPPRESSION AND MULTI-FEATURE INTEGRATION
79	Xiaotong Sun, Lina Zhuang, Lianru Gao, Hongmin Gao, Xu	Information Retrieval with Chessboard-Shaped Topology for
184	Karan Owalekar, Shailesh Deshpande and Arpan Pal	TRIPLET-LOSS DRIVEN OPTIMIZATION FOR IMPROVED
118	Elyes Ouerghi, Thibaud Ehret, Gabriele Facciolo, Enric Meinhardt, Jean-Michel Morel, Carlo de Franchis and	Model adjusted generalized tests for methane plume detection on hyperspectral images
72	Neil Pendock and Vitaly Vidavskiy	finding fairies at the bottom of your garden
22	Eliad Yurkovetsky and Stanley Rotman	OPTIONS FOR SOLID POINT TARGET DETECTION IN
216	Chang Liu, Jiawei Zhou and Yanni Dong	Adaptive Hyperspectral Siamese Network in Transformer
170	Michael Alibani, Nicola Acito and Giovanni Corsini	Sentinel-2 Image Generation via StyleGAN3 Model
94	Salma Haidar and José Oramas	A Contrastive Learning Method for Multi-label Predictors on
190	Shalom Hai Kobi, Mor David, Isaac August and Dima	Hyperspectral image prediction using a linear model in different
153	Anthony Medellin, David Grabowsky, Dariusz Mikulski and Reza Langari	SAM-SAM - A NOVEL APPROACH TO HYPERSPECTRAL-BASED IMAGE SEMANTIC SEGMENTATION
201	Bart Beusen, Marian-Daniel Iordache, Xenia Ivashkovych, Stefan Livens, Dirk Nuyts and Tanja Van Achteren	Self-Supervised AI Techniques for Versatile Near Lossless Compression of Hyperspectral Satellite Data
236	Daniel Staps, Marika Kaden, Jan Auth, Florian Zaussinger and Thomas Villmann	Compression of Particle Images for Inspection of Microgravity Experiments by Means of a Symmetric Structural Auto-Encoder
263	Grigorios Tsagkatakis	Tensor Decomposition Learning for Compression of
84	Martin Bachmann, David Marshall, Frederic Schwarzenbacher and Sarah Asam	Linear Spectral Unmixing for Large Spaceborne Hyperspectral Datasets - Challenges and Solutions for the Automated DLR
226	Bikram Koirala, Samiran Das, Behnood Rasti, Pedram Ghamisi, Richard Gloaguen and Paul Scheunders	A CRITICAL COMPARISON OF LINEAR AND NONLINEAR UNMIXING FOR INTIMATE MIXTURES

Posters Day2

Applications 2

266	Meesun Yang and William Basener	Analysis of Spectral Library Variation using Manifold Learning
30	Sivert Bakken, Kelly Luis, Geir Johnsen and Tor Arne Johansen	EVALUATING HYPERSPECTRAL SECCHI DEPTH RETRIEVAL THROUGH HYBRID MODELING AND REGRESSION
122	Cameron Penne, Joseph Garrett, Tor Arne Johansen,	INDEPENDENT COMPONENT ANALYSIS: A TOOL FOR ALGAL
97	Benjamin A. Lange, T. Dylan Mikesell, Taeheon Kim and Luke Griffiths	Investigating mineralogy and water-ice content of lunar regolith simulants using hyperspectral imagery
185	Leslie Garza	Harmful Algal Bloom Detection Using Remote Sensing Data
175	Jobin Francis, Binu Melit Devassy, Sudhish N George and Sony George	Quantitative Assessment of Hayward Kiwi Soluble Solids Content Prediction using Hyperspectral Imaging
273	Keshav Singh, Manoj Natarajan, Kamal Gill, Prabahar Ravichandran, Hongquan Wang and Charles M. Geddes	Digital Imaging System for High-Throughput Plant Phenotyping using Raspberry Pi Computers
137	Han-Ryul Seo, Hae-Chan Jeon, Il-Ryong Kweon and Seung-Wook Song	A STUDY ON THE DEVELOPMENT OF A QUALITY ESTIMATION MODEL FOR 'HONGRO' APPLES USING HSI
2	Petya Campbell, K. Fred Huemrich, Petr Lukes, Christopher Neigh, Benjamin Poulter and Sean McMahon	Evaluation of Canopy Function and Productivity by Combining Field Proximal and Space-borne Reflectance Time Series

240	Ioana Cristina Plajer, Alexandra Baicoianu, Luciana	NDVI Computation from Hyperspectral Images
225	Prabakar Ravichandran, Keshav D. Singh, Breanne Tidemann, Eric Johnson, Steve Shirliffe, Charles M.	Quantifying plant moisture and desiccant response in lentils (lens culinaris) using multi-spectral imagery
127	Anne Schucknecht, Sophie Reinermann, Ralf Kiese and Anita Bayer	TOWARDS THE RETRIEVAL OF PLANT TRAITS IN GRASSLANDS WITH HYPERSPECTRAL ENMAP DATA
187	Hongquan Wang, Keshav Singh, Hari Poudel, Prabakar Ravichandran, Manoj Natarajan and Brandon Eisenreich	Estimate Canopy Height and Biomass from UAV-based Multispectral Images
129	Kamal Marandskiy, Mihai Ivanovici, Stefan Corcodel and Sabina Costache	MULTISPECTRAL FRACTAL IMAGE ANALYSIS FOR SOIL ROUGHNESS ESTIMATION AT VARIOUS ALTITUDES
261	Deodato Tapete, Fabrizio Lenti, Maria Virelli, Patrizia Sacco, Vittorio Gentile, Nicola Pieroni, Achille Ciappa, Maurizio Frezzotti, Luca Pietranera, Giovanni Anconitano, Nazzareno Pierdicca, D. Comite, Cristina Vittucci, Leila Guerriero, S. Mokrane Siad, Lorenzo Giuliano Papale,	CLEXIDRA PROJECT: SOIL MOISTURE RETRIEVAL OVER AGRICULTURAL AREAS BY INTEGRATION OF C-, L-, X-BAND SAR DATA
232	Gabor Kereszturi, Michael Heap, Sam Thiele, Lauren Schaefer, Maia Kidd and Richard Gloaguen	Hydrothermally influenced rock strength and porosity – New insights using VNIR-SWIR-MWIR-LWIR spectroscopy
60	Rupsa Chakraborty, Imane Rachdi, Samuel Thiele, René Booyesen, Sandra Lorenz, Moritz Kirsch and Richard	A spectral and spatial comparison of airborne and satellite-based hyperspectral sensors for carbonatite mapping
11	Ayoub El Hassani and Michaela Skulinova	FLUORESCENCE DETECTION OF BACTERIA
6	Akram Mahan	Evaluation the impact of the Flood event in changing morphological parameters and Land Use/ Land Cover of the area,
17	Tanja Van Achteren, Bart Beusen, Jaro De Rooze, Pieter-Jan Demeyer, Bavo Delauré and Peter Matthijs	MOVIQ: Shaping the Future of Hyperspectral Earth Observation through AI and Onboard Intelligence
89	Corrado Chiatante, Dennis D. Langer, Joseph L. Garrett, Roger Birkeland, Simen Berg and Milica Orlandic	ONBOARD HYPERSPECTRAL CLASSIFICATION ENABLES GEOREFERENCING
26	Jonas Røysland, Dennis Langer, Simen Berg, Milica	Hyperspectral classification onboard the HYPISO-1 cubesat
218	Gozde Ozdogan and Aoife Gowen	Prediction of Wet Gluten Content in Wheat Kernels by Spectral Classification
18	Zhou Fang, Lin He and Wenrui Liang	GAN-BASED HYPERSPECTRAL CLASSIFICATION WITH
39	Boao Qin, Chunhui Zhao, Shou Feng, Maoyang Chen, Hongzhe Zhang and Bobo Xi	Hybrid Spectral-Spatial Convolutional Network and Transformer with Mixup Regularization for Hyperspectral Image Classification
71	Kai Shi, Qichao Liu, Liang Xiao and Zhizhong Zheng	Efficient Implementation for Composite CNN-based HSI classification Algorithm with Huawei Ascend Framework
102	Wenxiang Zhu, Yinghui Quan, Na Li and Yongxu Liu	Full Range Feature Extraction Network for Hyperspectral Image
126	Koushik Chhappariya, Dr. Emmett J. Lentilucci, Dr. Krishna Mohan Buddhiraju and Dr. Anil Kumar	A SPECTRAL-SPATIAL CLASSIFICATION NETWORK FOR HYPERSPECTRAL IMAGES USING A RESIDUAL ATTENTION
189	Shufang Xu, Sijie Geng, Tingting Fan, Chenming Li and Hongmin Gao	HYPERSPECTRAL IMAGE CLASSIFICATION METHOD BASED ON NARROWING SEMANTIC GAP CONVOLUTIONAL NEURAL
199	Fan Zhang, Yuting Wan and Pei Liu	A DEDICATED NETWORK FOR HYPERSPECTRAL IMAGE CLASSIFICATION BASED ON MULTI-OBJECTIVE
198	Giuseppina Monteverde, Vittoria Bruni, Domenico Vitulano, Alessandro Pagliarunga and Gianpiero Maiello	A WAVELET-BASED BAND SELECTION METHOD FOR HYPERSPECTRAL IMAGE CLASSIFICATION
85	R Aruna Florence, B Rupa and Atul Negi	HYPER SPECTRAL IMAGE CLASSIFICATION USING SPECTRAL and SPATIAL DIMENSION REDUCTION
159	Yunhao Gao, Wei Li, Mengmeng Zhang and Ran Tao	Hyperspectral classification using heterologous feature alignment
140	Jade Preston and William Basener	Modeling Uncertainty in Hyperspectral image Classification using Neural Networks with Bayesian Monte Carlo Dropout
142	Yang Hao, Zhifei Chen and Liang Xiao	DETECTING ADVERSARIAL EXAMPLES FOR HYPERSPECTRAL IMAGE CLASSIFICATION VIA MUTATION
163	Bing Qi and Xiaoyan Luo	Spatial-Spectral Cross-Domain Attention Network for Unsupervised Hyperspectral Image Classification

Posters Day 3

Data Processing and Advanced Algorithms 2

103	Olli Ihalainen, Yunseon Lee, Theresa Sandmann and Matti Möttö	Illumination correction for very high spatial resolution hyperspectral images using spectral invariants and random forest
171	Shachaf Weil-Zattelman and Fadi Kizel	IMAGE-BASED BRDF MEASUREMENT
173	Simon A. Trim and Daniel Schläpfer	Correction of Radiometric Steps at Dual-Sensor Imaging
267	Jason Brown, Bohan Chen, Harris Hardiman-Mostow, Adrien Weihs, Andrea Bertozzi and Jocelyn Chanussot	Material Identification in Complex Environments: Neural Network Approaches to Hyperspectral Image Analysis
38	Marie Bøe Henriksen, Fred Sigernes and Tor Arne Johansen	Comparing Filters for Correction of Second Order Diffraction Effects in Hyperspectral Imagers
233	Sihao Luo, Li Ma and Xingmei Li	Unsupervised Domain Adaptation for One-Stage Detector in
193	Stephane Nicolas and Andrei Fridman	New performance criterion for hyperspectral cameras

124	Sidney Besnard, Frederic Jurie and Jalal Fadili	SimPINNs: Simulation-Driven Physics-Informed Neural Networks for Enhanced Performance in Nonlinear Inverse Problems
5	Frédéric Schmidt	Intra-class variability : approximation of Radiative Transfer for
157	Geetika Barman, B. S. Daya Sagar, Aditya Challa and	Band Selection Using Dilation Distances
67	Ling Hu, Ran Meng, Qichao Liu, Jia Liu and Liang Xiao	A Novel Contrastive Regularized Bipartite Network for
76	Steven Le Moan	Hyperspectral Band Clustering for Visualisation
32	Lin Wang, Shijia Cao, Qinyan Tan and Heng Yang	Self-Adaptive Differential Evolution in Band Subset Selection for
276	Samrat B, Nithish Reddy Banda, Akhil Galla and Arun Pv	An adaptive deep denoising approach for Chandrayaan-2 IIRS
275	Sadia Hussain and Brejesh Lall	SWUNET: SWIN TRANSFORMER BASED UNET FOR HYPERSPECTRAL RECONSTRUCTION
33	Zha Yuchen and Liu Hongyi	Hyperspectral image super-resolution based on a Linear and
64	Hanghui Ye and Lin He	ASYMMETRIC-SCALE ARBITRARY RESOLUTION PANSHARPENING CNN FOR HYPERSPECTRAL IMAGES
95	Thomas De Kerf, Alexander Ulrichsen, Paul Scheunders, Paul Murray and Steve Vanlanduit	A Hyperspectral Super Resolution Dataset for the Validation of Super resolution Methods

Sensors, Missions, Data

8	Marta Ghirardello, Lorenzo Vinco, Alex Barker, Dario Polli, Antonio Perri and Fabrizio Preda	Exploring a new hyperspectral imaging technology: HERA, a hyperspectral camera based on Fourier-transform approach
42	Stefan Livens and Els Knaeps	A Superspectral Smallsat mission for marine litter monitoring
196	Matteo Corti, Benedetto Ardini, Giulio Cerullo, Antonio Perri, Fabrizio Preda and Cristian Manzoni	A compact and rugged hyperspectral camera for remote sensing based on Fourier transform spectrometry
12	Luca Maresi	Why HyperScout is not CHIME
53	Bjørn Andreas Kristiansen, Dennis Langer, Joseph Garrett, Simen Berg, Jan Tommy Gravdahl and Tor Arne Johansen	Accuracy of a slew maneuver for the HYPISO-1 hyperspectral imaging satellite — in-orbit results
59	Karina Strøm, Stephane Nicolas, Magnus Breivik and	Advancements in Hyperspectral Imaging for High-Altitude
134	Robert Wright	HyTI: high spectral resolution thermal imaging from a 6U CubeSat
144	Marco Esposito and Luca Maresi	Bigger is Better, but Smaller is Smarter
149	Maximilian Czech, Steven Le Moan and Jon Yngve	A NEW DUAL-SCALE HYPERSPECTRAL DATASET
147	Nathaniel Hanson, Benjamin Pyatski, Samuel Hibbard, Charles DiMarzio and Taskin Padir	Hyper-Drive: Visible-Short Wave Infrared Hyperspectral Imaging Data Sets for Robots in Unstructured Environments
194	Victor Angulo, Dario Scilla, Kasper Johansen and Matthew McCabe	THE KAUST-SAT HYPERSPECTRAL CUBESAT: OVERVIEW OF THE CONCEPT AND COMMISSIONING
228	Vincent Moreau, Benoit Borguet, Etienne Renotte, Gregory Lousberg, Aikatarini Radioti and Roberto Di Paola	Final Design and performance of the CHIME Spectrometer Unit
244	Ana-Mia Louw, Jacu Vos, Victor Angulo, Dario Scilla, Kasper Johansen and Matthew McCabe	Assessing Spectral Accuracy of the HyperScape50 Imaging Modes onboard the KAUST-SAT 6U CubeSat Mission
40	Kishor Chandra Kandpal and Amit Kumar	Identification and Mapping of Himalayan Medicinal Plants using PRISMA Hyperspectral Remote Sensing and in-situ Data using
54	Keltoum Khechba, Ahmed Laamrani and Abdelghani	Estimating Nutrient Concentrations in Crop Grains Using PRISMA
104	Rajesh Vanguri, Giovanni Laneve and Alvise Ferrari	Analysis of Fusion Techniques for Enhancing Spatial Resolution of PRISMA Hyperspectral Data Using Sentinel-2 Data.
109	Maxime Troiani, Jean Bouchat, Louise Leclère, Yannick Curnel, Philippe Vermeulen, François Stevens, Benoit Scaut, Damien Malice, Vincent Baeten, Nicolas	PRISMA & ENMAP COMPARISON IN THE CONTEXT OF WHEAT NITROGEN STATUS ASSESSMENT
151	Dr. Ronak Jain	PALAEOPROTEROZOIC TALC AND CLAY MAPPING USING SPACEBORNE IMAGING SPECTROMETER PRISMA DATA
178	Yuan Fang, Alexander De Souza, Linlin Xu, Xinwei Chen and David A. Clausi	Endmember variable mineral mapping with Bayesian convolutional unmixing network using PRISMA hyperspectral imagery
250	Arindam Guha, Debasis Singh, Deodato Tapete, Suparn Pathak, Rajeev Jaiswal, Licciardi Giorgio and Sacco	PRISMA data-based delineation of Blue-dust rich zone within Banded Hematite Quartzite – a study in the Bolani area, Odisha,
131	Khalil Misbah, Ahmed Laamrani and Raffaele Casa	Spatial Mapping of Soil Elements using PRISMA Satellite Data and Feature Selection Learning