Milad Niroumand-Jadidi
Remote Sensing Researcher and Tutor

Date of birth: 21 March 1987

Extensive experience in remote sensing of inland and coastal waters; Solid experience in data modeling and image processing; Expert in geospatial analysis; Strong scientific programming skills; Strong analytical and creative problem-solving skills; Strong skills in communication, presentation, and teaching.

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📍 Bologna, Italy 🔲 🔲 🔲 (Clickable)

EMPLOYMENT/POSITIONS

Researcher

Interdepartmental Research Center for Environmental Sciences, University of Bologna

Main responsibilities:

- Developing remote sensing methods and applications focused on retrieving biophysical parameters in optically-complex Adriatic coastal waters.
- Contribution to research projects of the unit.
- Supervising MSc and BSc students.

8/2024- present   *Bologna, Italy*

Tenure-Track Assistant Professor (offer accepted — unable to start due to visa issues)

School of Forest, Fisheries, and Geomatics Sciences, University of Florida

- Successfully secured a tenure-track faculty position through a competitive international recruitment process.
- 650k USD start-up grant.

2024   *Gainesville, USA*

Post-Doc Researcher

Remote Sensing for Digital Earth (RSDE) Unit, Fondazione Bruno Kessler

Main responsibilities:

- Developing remote sensing methods and applications focused on retrieving biophysical parameters (e.g., water quality and bathymetry) in inland and coastal waters.
- Contribution to research projects of the unit.

Supervising MSc and BSc students.

Researcher level 3	*11/2020- 8/2024*	
Researcher level 4	*11/2017- 11/2020*	*Trento, Italy*

Visiting Scientist, German Aerospace Center (DLR)

May-August 2022   *Oberpfaffenhofen, Germany*

Remote Fellow for Young Investigator Group Preparation Program

Institute for Photogrammetry and Remote Sensing (IPF), Karlsruhe Institute of Technology (KIT)

7/2021- 7/2022   *Karlsruhe, Germany*

Research Fellow

Remote Sensing Laboratory, Dept. of Information Engineering and Computer Science, University of Trento

11/2017- 8/2024   *Trento, Italy*

Ph.D. Research Fellow

Department of Civil, Environmental, and Mechanical Engineering, University of Trento

Department of Biology, Chemistry, and Pharmacy, Freie Universität Berlin

Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB)

11/2014 − 11/2017   *Trento, Italy*
Berlin, Germany

University Lecturer

Department of Geomatics Engineering, University of Tabriz

Department of Geomatics Engineering, University of Zanjan

1/2013 – 10/2014   *Tabriz, Iran*
Zanjan, Iran

EDUCATION

Ph.D. in Civil, Environmental, and Mechanical Engineering

Joint degree (in River Science) awarded by University of Trento & Freie Universität Berlin

Thesis Title: Rivers Hydromorphological Characterization from High Resolution Remotely Sensed Data

11/2014 − 11/2017   *Trento, Italy*
Berlin, Germany

MSc in Remote Sensing Engineering

K.N. Toosi University of Technology

Thesis Title: Land Cover Mapping at Sub-pixel Resolution Based on Spatial Optimization Techniques Using Multispectral Satellite Imagery

9/2010 – 1/2013   *Tehran, Iran*

BSc in Geomatics Engineering

University of Tabriz

11/2005 − 11/2009   *Tabriz, Iran*

HONORS & AWARDS

1. Tenure Track Assistant Prof. Position with Starting Grant (650k USD), 2024, School of Forest, Fisheries, and Geomatics Sciences**,** University of Florida, USA (*unable to start the position due to visa issues*)

2. DLR-DAAD Fellowship, 2022, Visiting Scientist at German Aerospace Center (DLR), May-August 2022

3. Travel Grant to attend Ocean Optics XXV Conference (Vietnam, Oct. 2-7), 2022, awarded by European operational satellite agency for monitoring weather, climate and the environment from space (EUMETSAT)

4. International Society for Photogrammetry and Remote Sensing (ISPRS) Best Young Author Award, 2021, *XXIV ISPRS Congress*, Nice, France (Digital Edition)

5. Remote Fellowship for Young Investigator Group Preparation Programme, 2021, Karlsruhe Institute of Technology, Germany

6. Top Peer Reviewer of Geosciences in the Global Peer Review Awards, 2019, powered by Publons

7. Best Paper and Oral Presentation Award, *SPIE Remote Sensing Conference*, 2017, Warsaw, Poland

8. Invited Talk, September 2017, *SPIE Remote Sensing Conference*, Warsaw, Poland

9. Best Paper and Oral Presentation Award, 2016, *SPIE Remote Sensing Conference*, Edinburgh, UK

10. SPIE Scholarship for Potential Long-range Contributions to the Field of Optics and Photonics, 2016, awarded by *SPIE (International Society for Optics and Photonics)*

11. Alexander Goetz Instrument Support Award, 2016, short-term usage of field spectroradiometer fully supported by *Analytical Spectral Devices* (*ASD) Inc.*

12. Best Paper and Oral Presentation Award, 2015, *SPIE Remote Sensing Conference*, Toulouse, France

13. Imagery Grant, 2015 and 2017, Awarded by *DigitalGlobe Foundation*

14. Erasmus Mundus Fellowship for Joint Doctorate Programme, 2014, Awarded by *European Union*

15. International Cartographic Association (ICA) Travel Award, 2013, *26th International Cartographic Conference*, Dresden, Germany

16. International Society for Photogrammetry and Remote Sensing (ISPRS) Travel Grant, 2012, *XXII ISPRS Congress*, Melbourne, Australia

17. Best Paper Award, 2012, *The Second International Conference and Exhibition on Mapping and Spatial Information (ICMSI 2012) and 19th National Geomatics Conference*, Tehran, Iran

18. Best Student Researcher Award, 2011, *K. N. Toosi University of Technology*, Tehran, Iran

19. International Cartographic Association (ICA) Travel Award, 2011, *25th International Cartographic Conference*, Paris, France

20. Best Paper Award, 2007, *Geomatics Conference*, Azad University of Bonab, Iran

TEACHING & SUPERVISING STUDENTS

Ph.D., MSc and BSc Thesis Supervisions	*University of Bologna, Bologna, Italy*
	University of Trento, Trento, Italy
	State University of New York, US (remote)
	1/2016 − Present

(Co)Supervision of 2 Ph.D. students and more than 20 Bachelor and 10 Master students in the course of their research project and thesis.

Graduate Thesis Committee Member	Participated remotely in the evaluation and defense of graduate research in the Department of Environmental Resources Engineering, State University of New York, USA, 2025.

Lecturer	Summer School held by the CMCC Foundation (Euro-Mediterranean Center on Climate Change), Lecce, Italy, 20−25 July 2025

Taught Course:

Forward and Inverse Modeling in Coastal Water Remote Sensing: From Physics to Machine Learning

* Both theoretical and practical lectures were delivered.

Lecturer	University of Tabriz and University of Zanjan
	1/2013 − 10/2014

Taught Courses:

Principles of Remote Sensing*, Applied Remote Sensing*, Semester Projects, Digital Cartography*, Surveying‡, Cadaster

* Both theoretical and practical lectures were delivered; image processing and GIS software, including ENVI, ERDAS, MATLAB, ArcGIS, and AutoCAD Civil 3D is used for practical sessions.

‡ Theoretical sessions accompanied by field surveys.

Workshops Attended for Improving Teaching and Presentation Skills:

Online workshop for teaching and learning in higher education: Vocal Empowerment - Speak to be heard, December 2021, Organized by Hochschuldidaktikzentrum Baden-Württemberg (HDZ) and University of Stuttgart

PUBLICATIONS

Peer-reviewed:

1. **Niroumand-Jadidi, M.,** Gege, P., 2025, WASI-AI: Synergistic Integration of AI and Physics for Retrieving Water Quality and Benthic Parameters from Multi- and Hyperspectral Images, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* (in press, the early access version of the accepted paper is available at: https://doi.org/10.1109/JSTARS.2025.3605061

2. **Niroumand-Jadidi, M.,** Legleiter, C.J., and Bovolo, F., 2025, Neural Network-Based Temporal Ensembling of Water Depth Estimates Derived from SuperDove Images, *Remote Sensing*, 17(7), 1309.

3. Khan, R. M., Salehi, B., **Niroumand-Jadidi, M,** and Mahdianpari, M., 2024, Mapping Water Clarity in Small Oligotrophic Lakes Using Sentinel-2 Imagery and Machine Learning Methods: A Case Study

of Canandaigua Lake in Finger Lakes, New York, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 17, 4674–4688.

4. **Niroumand-Jadidi, M.,** Bovolo, F., 2023, Deep Learning based Retrieval of an Orange Band Sensitive to Cyanobacteria for Landsat 8/9 and Sentinel 2, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing,* 16, 3929–3937.

5. Zaghian, S., Mohammadzadeh, A., Ghorbanian, A., Bovolo, F., and **Niroumand-Jadidi, M.**, 2023, Enhancing Suspended Sediment Concentration Retrieval by Integrating Thermal Infrared and Optical Bands of Landsat-8 and Machine Learning Algorithms, *International Journal of Remote Sensing*, Vol.44, pp. 5814-5844, 2023.

6. **Niroumand-Jadidi, M.,** Legleiter, C.J., and Bovolo, F., 2022, Bathymetry retrieval from CubeSat image sequences with short time lags, *International Journal of Applied Earth Observation and Geoinformation*, 112, 102958.

7. **Niroumand-Jadidi, M.,** Bovolo, F., Bresciani, M., Gege, P., and Giardino, C., 2022, Water Quality Retrieval from Landsat-9 (OLI-2) Imagery and Comparison to Sentinel-2, *Remote Sensing*, 14(18), 4596.

8. **Niroumand-Jadidi, M.,** Legleiter, C.J., and Bovolo, F., 2022, River Bathymetry Retrieval from Landsat-9 Images Based on Neural Networks and Comparison to SuperDove and Sentinel-2, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 15, 5250–5260.

9. **Niroumand-Jadidi, M.,** and Bovolo, F., 2022, Temporally Transferable Machine Learning Model for Total Suspended Matter Retrieval From Sentinel-2, ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 3, 339–345.

10. **Niroumand-Jadidi, M.,** and Bovolo, F., 2021, Sentinel-2 Reveals Abrupt Increment of Total Suspended Matter While Ever Given Ship Blocked the Suez Canal, *Water*, 13 (22), 3286.

11. **Niroumand-Jadidi, M.,** Bovolo, F., Bruzzone, L., and Gege, P., 2021. Inter-Comparison of Methods for Chlorophyll-a Retrieval: Sentinel-2 Time-Series Analysis in Italian Lakes, *Remote Sensing*, 13(12), 2381.

12. **Niroumand-Jadidi, M.,** and Bovolo, F., 2021, Water Quality Retrieval and Algal Bloom Detection Using High-Resolution CubeSat Imagery, *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*; Vol. V-3-2021,191–195.

13. **Niroumand-Jadidi, M.**, Bovolo, F., and Bruzzone, L., 2020. SMART-SDB: Sample-specific multiple band ratio technique for satellite-derived bathymetry, *Remote Sensing of Environment*. 251, 112091.

14. **Niroumand-Jadidi, M.,** Bovolo, F., and Bruzzone, L., 2020. Water Quality Retrieval from PRISMA Hyperspectral Images: First Experience in a Turbid Lake and Comparison with Sentinel-2, *Remote Sensing*. 12(23), 3984.

15. **Niroumand-Jadidi, M.**, Santoni, M., Bovolo, F., and Bruzzone, L., 2020. Snow Cover Estimation Underneath the Clouds based on Multitemporal Correlation Analysis in Historical Time-Series Imagery, *IEEE Transactions on Geoscience and Remote Sensing*. 58 (8), 5703–5714.

16. **Niroumand-Jadidi, M.**, Bovolo, F., and Bruzzone, L., Gege, P., 2020. Physics-based Bathymetry and Water Quality Retrieval Using PlanetScope Imagery: Impacts of 2020 COVID-19 Lockdown and 2019 Extreme Flood in the Venice Lagoon, *Remote Sensing*. 12(15), 2381.

17. **Niroumand-Jadidi, M.**, Bovolo, F., and Bruzzone, L., 2019. Novel Spectra-Derived Features for Empirical Retrieval of Water Quality Parameters: Demonstrations for OLI, MSI and OLCI Sensors, *IEEE Transactions on Geoscience and Remote Sensing*, 57 (12): pp. 10285–10300.

18. **Niroumand-Jadidi, M.**, Pahlevan, N., and Vitti, A., 2019. Mapping Substrate Types and Compositions in Shallow Streams. *Remote Sensing*, 11(3), 262.

19. **Niroumand-Jadidi, M.**, Vitti, A. and Lyzenga, D., 2018. Multiple Optimal Depth Predictors Analysis (MODPA) for river bathymetry: Findings from spectroradiometry, simulations, and satellite imagery, *Remote Sensing of Environment*, 218: 132-147.

20. **Niroumand-Jadidi, M.** and Vitti, A., 2017. Reconstruction of River Boundaries at Sub-pixel Resolution: Estimation and Spatial Allocation of Water Fractions, *ISPRS International Journal of Geo-Information*. 6(12): 383.

21. **Niroumand-Jadidi, M.** and Vitti, A., 2016, Optimal Band Ratio Analysis of WorldView-3 Imagery for Bathymetry of Shallow Rivers (case Study: Sarca River, Italy), *ISPRS- International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XLI-B8, 2016, pp. 361-364.

22. Fairbairn, D. and **Niroumand-Jadidi, M.**, 2013, Influential Visual Design Parameters on TV Weather Maps, *The Cartographic Journal*, Vol. 50, No 4, pp. 311-323.

23. **Niroumand-Jadidi, M.**, Sahebi, M.R. and Mokhtarzade, M., 2013, Enhancing the Locational Perception of Soft Classified Satellite Imagery through Evaluation and Development of the Pixel Swapping Technique. In: "*Cartography: from pole to pole*" ed. By M. Buchroithner et al., Springer-Verlag Berlin Heidelberg. pp. 63-78.

24. **Niroumand-Jadidi, M.**, Safdarinezhad, A.R., Sahebi, M.R. and Mokhtarzade, M., 2012, A Novel Approach to Super Resolution Mapping of Multispectral Imagery Based on Pixel Swapping Technique. *ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume I-7, pp.159-164.

Full Papers Presented at International Conferences:

25. Khan, R.M., Salehi, B., **Niroumand-Jadidi, M**, and M. Mahdianpari, 2024, Global vs Local Random Forest Model for Water Quality Monitoring: Assessment in Finger Lakes Using Sentinel-2 Imagery and Gloria Dataset, IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium, Athens, Greece, pp. 4389-4392.

26. Khan, R.M., Salehi, B., **Niroumand-Jadidi, M**, and M. Mahdianpari, 2023, Quantification and Mapping of Water Clarity for Freshwater Lakes Using Sentinel-2 Data and Random Forest Regression Model: Application on Finger Lakes, New York, IGARSS 2023 - 2023 IEEE International Geoscience and Remote Sensing Symposium, Pasadena, CA, USA, pp. 2890-2893.

27. **Niroumand-Jadidi, M.,** Bovolo, F., 2022, Extreme gradient boosting machine learning for total suspended matter (TSM) retrieval from Sentinel-2 imagery, Proc. SPIE 12263, Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2022, 1226308, SPIE Remote Sensing Conference, Berlin, Germany.

28. **Niroumand-Jadidi, M.,** Santoni, M., Bovolo, F., Bruzzone, L., 2019. A Novel Approach to Snow Coverage Retrieval Under Cloud-Obscured Pixels Based on Multitemporal Correlation, International Geoscience and Remote Sensing Symposium 2019 (IGARSS 2019), Yokohama, Japan, 28 July – 2 August.

29. Podsiadlo, I., Paris, C., Bovolo, F., Callegari, M., De Gregorio, L., Günther, D., Marin, C., Marke, T., **Niroumand-Jadidi, M.**, Notarnicola, C., Strasser, U., Zebisch, M., Bruzzone, L., 2019, Integration of hydro-climatological model and remote sensing for glacier mass balance estimation. *Proc. SPIE 10789, Image and Signal Processing for Remote Sensing*, SPIE Remote Sensing Conference, Strasbourg, France.

30. **Niroumand-Jadidi, M.**, Bovolo, F., Vitti, A., Bruzzone, L., 2018. A novel approach for bathymetry of shallow rivers based on spectral magnitude and shape predictors using stepwise regression, *Proc. SPIE 10789, Image and Signal Processing for Remote Sensing XXIV*, 107890O, SPIE Remote Sensing Conference, Berlin, Germany.

31. **Niroumand-Jadidi**, M. and Vitti, A., 2017, Grain Size Mapping in Shallow Rivers Using Spectral Information: A Lab Spectroradiometry Perspective, Proc. SPIE 10422, Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2017, 104220B, SPIE Remote Sensing Conference, Warsaw, Poland.

32. **Niroumand-Jadidi, M.** and Vitti, A., 2016, Improving the Accuracies of Bathymetric Models Based on Multiple Regression for Calibration (Case Study: Sarca River, Italy), *Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions*, edited by Charles R. Bostater, Xavier Neyt, Caroline Nichol, Oscar Aldred, SPIE Remote Sensing, Edinburgh, UK.

33. **Niroumand-Jadidi, M.** and Vitti, A., 2015, *Sub-pixel mapping of water boundaries using pixel swapping algorithm (case study: Tagliamento River, Italy)*, Proc. SPIE 9638, Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2015, 96380G. SPIE Remote Sensing 2015, Toulouse, France.

34. **Niroumand-Jadidi, M.**, Vitti, A., Jannati, M. and Salehi, S., 2015, *Improvement of Linear Spectral Unmixing Results Using Over-Shoot Pixels (Case Study: Urmia Lake Basin)*, International Geoscience and Remote Sensing Symposium 2015 (IGARSS 2015), Milan, Italy. p. 4432-4435.

35. **Niroumand-Jadidi, M.**, Helali, H., and Alesheikh., A.A., 2011. *Optimal Visualization of Satellite Imagery and Superimposed Vector Data; a New Trend to the Conceptual Visualization of Land-Use Maps*, In: ICC 2011 proceedings: 25th International Cartographic Conference, 3-8 July 2011, Paris, France.

Other Talks/Posters in International Conferences:

36. **Niroumand-Jadidi, M.**, Mentaschi, L., and Silvestri, S., 2025. Seamless retrieval of coastal water quality from Landsat-9 and Sentinel 2 imagery based on an AI-enhanced physical model, 13th World Congress on Water Resources and Environment (EWRA 2025), 24— 28 June, Palermo, Italy.

37. **Niroumand-Jadidi, M.**, and Gege, P., 2024. AI-Empowered Physical Inversion of Water Quality and Benthic Parameters from Multi- and Hyperspectral Images. Ocean Optics XXVI, 6─11 October 2024, Las Palmas de Gran Canaria, Spain.

38. Gege, P., and **Niroumand-Jadidi, M.**, 2024. Combining physical modelling and AI for removing sun glint from atmospherically corrected imagery. *Ocean Optics XXVI*, 6─11 October 2024, Las Palmas de Gran Canaria, Spain.

39. Gege, P., and **Niroumand-Jadidi, M.**, 2024. Identifying and Handling of Errors Caused by Spectral Ambiguities over Water. 13th EARSeL Workshop on Imaging Spectroscopy, 16─18 April 2024, Valencia, Spain.

40. **Niroumand-Jadidi, M.**, Bovolo, F., 2022. Deep Learning-Based Retrieval of Cyanobacteria-Sensitive Orange Band For Landsat-8/9 And Sentinel-2 Imagery, Ocean Optics XXV, 2-7 October, Quy Nhon, Vietnam.

41. **Niroumand-Jadidi, M.**, Bovolo, F., and Bruzzone., L., 2019. *Enhanced Retrieval of Lake Water Quality Parameters from Satellite Imagery by Extraction of Novel Spectral Features,* 6th biennial Symposium of the International Society for River Science, 8-13 September, Vienna, Austria.

42. **Niroumand-Jadidi, M.**, Vitti, A., 2019. *Advanced Methods for Remote Sensing of Fluvial Hydromorphology,* 6th biennial Symposium of the International Society for River Science, 8-13 September, Vienna, Austria.

43. **Niroumand-Jadidi, M.**, Vitti, A., Pahlevan, N., 2017. *Bottom Reflectance Retrieval in Shallow Rivers: Lab Spectroradiometry Experiments,* International Ocean Colour Science Meeting, 15-18 May, Lisbon, Portugal.

Invited Talks

Earth Day Symposium 2021, University of Maryland Baltimore County**, Title:** *Remote Sensing of Impacts on Surface Water Quality due to COVID-19 Lockdowns*

Geodetic Colloquium, Karlsruhe Institute of Technology (KIT), **Title:** *CubeSats and Opportunities for Remote Sensing of Inland Waters*

PEER REVIEW SERVICES

Associate Editor, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Topic Editors Board, *Remote Sensing* journal, MDPI

Special Issue Editor, *Remote Sensing* journal, MDPI, "Methodological Advancements in Remote Sensing of Biophysical Parameters in Inland and Coastal Waters"

Member of Reviewers Board, *Remote Sensing* journal

Reviewer of International Journals: *Remote Sensing of Environment, IEEE Transactions on Geoscience and Remote Sensing, Remote Sensing, International Journal of Remote Sensing, ISPRS International Journal of Geo-Information, Water, Sensors, Sustainability, International Journal of River Basin Management, Applied Sciences, Journal of Hydrology*

PROFESSIONAL SOCIETIES

- Early-career Member, Association for the Sciences of Limnology and Oceanography, 2022– present

- Member, SPIE International Society for Optics and Photonics, 2015– present

- Member, IEEE Geoscience and Remote Sensing Society (IEEE GRSS), 2017– present

INTERNATIONAL FIELD CAMPAIGNS (FUNDED)

- Validation of hyperspectral satellite imagery for water quality applications, Lake Constance, Germany, August 2022

- Validation of drone-based imagery for water quality and bathymetry applications, EU network of mesocosm facilities for research on marine and freshwater ecosystems open for global collaboration, LakeLab, Stechlin, Germany, July-August 2021

PROJECTS

- Researcher and team member, since 2024, Adriatic coastal areas science-based solutions for climate adaptation (AdriaClimPlus-ITHR0200333) funded by the Interreg Italy-Croatia cooperation program.

- Researcher and team member, 2023-2024, Environmental Mapping from Hyperspectral Aerial Images (MAPPIS: Mapping Ambientale da Immagini Aeree Iperspettrali). Joint project with AVT Airborne Sensing.

- Principal investigator and Research Fellow, May-August 2022, Integration of Artificial Intelligence (AI) with Physics-based Models for Retrieving Biophysical Parameters in Aquatic Environments, Funded by German Aerospace Center (DLR) and German Academic Exchange Service (DAAD).

- Researcher and team member, 2019- 2022, Remote Sensing of Water Quality in Lakes (Northern Italy), a collaboration project with the Provincial Agency for Protection of the Environment (APPA-Trentino).

- Researcher and team member, 2017-2020, CRYOMON-SciPro project, Development, and Assessment of Algorithms for Mapping of Snow-Cover from Temporal Imagery. Funded by the Euregio Scientific Research.

- Researcher and team member, 2014-2017, Science for Management of Rivers and their Tidal Systems (SMART), Erasmus Mundus joint Ph.D. project, Funded by European Union.

RESEARCH INTERESTS

Remote Sensing of the Environment, Remote Sensing of Inland and Coastal Waters, Water Quality Retrieval, Fluvial Remote Sensing, Satellite-Derived Bathymetry, Multitemporal Analysis, Machine and Deep Learning, Integration of Machine Learning and Physics-based models

References

Dr. Peter Gege, German Aerospace Center (DLR), Earth Observation Center, Oberpfaffenhofen, 82234 Weßling, E-mail: peter.gege@dlr.de

Dr. Carl J. Legleiter, U.S. Geological Survey, Integrated Modeling and Prediction Division, Golden, CO 80403, USA, E-mail: cjl@usgs.gov

Dr. Bahram Salehi, State University of New York, College of Environmental Science and Forestry, Syracuse, NY 13210, USA, E-mail: bsalehi@esf.edu

Dr. Francesca Bovolo, Fondazione Bruno Kessler (FBK), Remote Sensing for Digital Earth Unit, Via Sommarive 18, 38123, Trento, Italy, E-mail: bovolo@fbk.eu

Dr. Lorenzo Bruzzone, Department of Information Engineering and Computer Science, University of Trento, Via Sommarive, 5 I-38123 Trento, Italy, E-mail: lorenzo.bruzzone@unitn.it

Dr. Alfonso Vitti, University of Trento, Department of Civil and Environmental Engineering, Via Mesiano, 77 - 38123 Trento, E-mail: alfonso.vitti@unitn.it