


07 November 2023

Riccardo Roncella

PERSONAL INFORMATION Riccardo RONCELLA

 Affiliation
 Università degli Studi di Parma
 Department DIA
 Parco Area delle scienze 181/a, 43124 Parma

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and level / Technical collaborator

WORK EXPERIENCE

from 01/03/2023 to present

Full professor in Geomatics

University of Parma, Via Università 12, 43121 Parma

Research, teaching, Dean of the Environmental and Land Management Engineering Master Course (from 2018)

High-education, R&D

from 01/10/2014 to 28/02/2023

Associate Professor in Geomatics

University of Parma, Via Università 12, 43121 Parma

High-education, R&D

from 01/11/2008 to 31/09/2014

Assistant professor in Geomatics

University of Parma, Via Università 12, 43121 Parma

Research, teaching

EDUCATION AND TRAINING

from 01/01/2003 to 31/12/2005

PhD student in Geomatics

University of Parma

Photogrammetry, Image processing,

from 09/1996 to 04/2002

Student in Civil Engineering

University of Parma

cum laude

from 01/10/1991 to 31/07/1996

Student at the Scientific High School

Liceo Scientifico Ulivi, Parma (PR)

High school skills

60/60

WORK ACTIVITIES**Editorial activity**

- Guest Editor for the Special Issue "New Advancements in Remote Sensing Image Processing", Remote Sensing, since December 2021.
- Guest Editor for the Special Issue "Image Processing and Analysis: Trends in Registration, Data Fusion, 3D Reconstruction, and Change Detection II", Remote Sensing, since June 2021.
- Guest Editor for the Special Issue "Feature Papers for Remote Sensing Image Processing Section", Remote Sensing, since July 2020.
- Member of the Editorial Board of Remote Sensing (MDPI), since 2018.
- Guest Editor for the Special Issue "Image Processing and Analysis: Trends in Registration, Data Fusion, 3D Reconstruction and Change Detection", Remote Sensing, since January 2019.

- Guest Editor for the Special Issue “New Advancements in Remote Sensing Image Processing”, Remote Sensing, since December 2021.

Invited presentations

- 2020 – Invited Lecture: CGMM – Univ. of Newcastle - Innovative techniques for surveying and monitoring the environment.
- 2016 – Invited Plenary Keynote: XX Convegno Nazionale ASITA 2016 – Geomatics application for risk assessment in high mountain.
- 2014 – Invited Keynote: Accademia Nazionale dei Lincei - Where is photogrammetry heading to? State of the art and trends. (Speaker: Prof. Gianfranco Forlani)
- 2014 – Invited Lecture: UEE Grenoble – “Les principes de la mesure du relief: Photogrammetrie”
- 2013 – Invited Lecture: Rilem Technical Committee (RTC) - DIC Systems: a brief review of image matching techniques and their benefits and limitations
- 2012 – Invited Lecture: CGMM – Univ. of Newcastle - Photogrammetry applied to geotechnical applications.
- 2012 – Invited Lecture: RTC - Digital image correlation techniques and their applications in displacement measurement and strain analyses in cracking phenomena

PERSONAL SKILLS

Mother tongue(s)

Other language(s)

Digital skills

ADDITIONAL INFORMATION

Top 10 cited Publications
(citation scores updated 11/2022)

Web of Knowledge: 64 documents, 1163 citations, H-index=18
Scopus: 92 documents, 2127 citations, H-index=26
Google scholar: 154 documents, 2845 citations, H-index=30, i10-index=59

1. Ferrero, A.M., Forlani, G., Roncella, R., Voyat, H.I. Advanced geosurvey methods applied to rock mass characterization. (2009) *Rock Mechanics and Rock Engineering*, 42 (4), pp. 631-665.
2. Forlani, G., Dall'Asta, E., Diotri, F., di Cella, U.M., Roncella, R., Santise, M. Quality assessment of DSMs produced from UAV flights georeferenced with on-board RTK positioning. (2018) *Remote Sensing*, 10 (2), art. no. 311, .
3. Benassi, F., Dall'Asta, E., Diotri, F., Forlani, G., Cella, U.M., Roncella, R., Santise, M. Testing accuracy and repeatability of UAV blocks oriented with gnss-supported aerial triangulation. (2017) *Remote Sensing*, 9 (2), art. no. 172, .
4. Bruno, N., Roncella, R. HBIM for conservation: A new proposal for information modeling. (2019) *Remote Sensing*, 11 (15), art. no. 1751, .
5. Dall'Asta, E., Forlani, G., Roncella, R., Santise, M., Diotri, F., Morra di Cella, U. Unmanned Aerial Systems and DSM matching for rock glacier monitoring. (2017) *ISPRS Journal of Photogrammetry and Remote Sensing*, 127, pp. 102-114.
6. Roncella, R., Forlani, G., Remondino, F. Photogrammetry for geological applications: Automatic retrieval of discontinuity orientation in rock slopes. (2005) *Proceedings of SPIE - The International Society for Optical Engineering*, 5665, art. no. 05, pp. 17-27.
7. Birgisson, B., Montepara, A., Romeo, E., Roncella, R., Roque, R., Tebaldi, G. An optical strain measurement system for asphalt mixtures. (2009) *Materials and Structures/Materiaux et Constructions*, 42 (4), pp. 427-441.
8. Bruno, N., Roncella, R. A restoration oriented HBIM system for cultural heritage documentation: The case study of parma cathedral. (2018) *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 42 (2), pp. 171-178.
9. Dall'Asta, E., Roncella, R. A comparison of semiglobal and local dense matching algorithms for surface reconstruction. (2014) *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 40 (5), pp. 187-194.
10. Barazzetti, L., Forlani, G., Remondino, F., Roncella, R., Scaioni, M. Experiences and achievements in automated image sequence orientation for close-range photogrammetric projects. (2011) *Proceedings of SPIE - The International Society for Optical Engineering*, 8085, art. no. 80850F, .