

STEFANO ORLANDINI

Professor of Civil and Environmental Engineering

School Address

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Education

Ph.D., Hydrology, “Politecnico di Milano” Technical University, Milan, Italy, 1995.
M.Sc. Degree Summa Cum Laude, Civil Engineering, University of Parma, Parma, Italy, 1991.

Professional Experience

Full Professor, University of Modena & Reggio Emilia, Modena, Italy, 2016–Present.
Adjunct Associate Professor, Duke University, Durham NC, USA, 2013–2016.
Associate Professor, University of Modena & Reggio Emilia, Modena, Italy, 2005–2016.
Assistant Professor, University of Ferrara, Ferrara, Italy, 1999–2004.

Research Interests

Terrain analysis. Channel networks. Surface flow propagation. Surface-subsurface flow modeling. Flood protective measures. Flood control reservoirs. Wildlife impact on earthen dams and levees.

Fellowships

Fellow of the National Academy of Sciences, Humanities and Arts of Modena, Italy, 2016–Present.

Honors

Travel Fellowship for Young Scientists, American Geophysical Union, 1999.
Giulio Supino Award, Italian Group of Water Scientists, 1992.

Editorial Duties

Associate Editor, *Water Resources Research*, 2014–Present.
Associate Editor, *Journal of Hydrology*, 2019–2022.

Appointments

Member, American Geophysical Union Leadership Group, 2018–2023.
Member, American Geophysical Union Committee on Global Engagement, 2018–2021.
Member, Committee on Causes of the Levee Failure Occurred along the Secchia River, Italy, 2014.

Selected Publications

- Pizzileo, S., G. Moretti, and S. Orlandini (2024), Flood plain inundation modeling with explicit description of land surface macrostructures, *Adv. Water Resour.*, 188(6), 104,713.
- Moretti, G., and S. Orlandini (2023), Thalweg and ridge network extraction from unaltered topographic data as a basis for terrain partitioning, *J. Geophys. Res. Earth Surface*, 128, e2022JF006943.
- Orlandini, S., G. Moretti, and J. D. Albertson (2015), Evidence of an emerging levee failure mechanism causing disastrous floods in Italy, *Water Resour. Res.*, 51(10), 7995–8011.
- Camporese, M., C. Paniconi, M. Putti, and S. Orlandini (2010), Surface-subsurface flow modeling with path-based runoff routing, boundary condition-based coupling, and assimilation of multisource observation data, *Water Resour. Res.*, 46(2), W02512.
- Orlandini, S., and G. Moretti (2009), Determination of surface flow paths from gridded elevation data, *Water Resour. Res.*, 45(3), W03417.

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