

## Special Issue

# Improving Climate Resilience of Critical Asset: Asset-Level Modelling to Achieve A Better Understanding of Climate-Related Impacts

### Message from the Guest Editors

According to the United Nations, climate hazard-related disasters have risen significantly, with over 7000 incidents between 2000 and 2019. These events impacted 4 billion people and caused nearly USD 3 trillion in losses. This surge is primarily due to extreme weather events. If global temperatures continue to rise and net-zero targets are not met by 2050, 10% of the world's economic value may be lost. In this framework, this Special Issue aims to collect contributions from EU ICARIA project promoting the use of asset-level hazard and risk models to better understand climate-related impacts and the potential reduction provided by sustainable and cost-effective adaptation solutions. Submissions to this Special Issue should focus on the results of cutting-edge assessment methods implemented in the three ICARIA case studies (Barcelona Metropolitan Area, South Aegean Archipelago, and Salzburg Region), all facing severe climate challenges. Presentation of comprehensive climate risk assessments considering complex events including compound events and cascading effects are especially encouraged to ensure scientific novelty and state-of-the-art contributions.

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### Guest Editors

Prof. Dr. Beniamino Russo  
Dr. Eduardo Martínez-Gomariz  
Dr. Rita Salgado Brito

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### Deadline for manuscript submissions

closed (31 March 2026)



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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

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