

Hazard Mapping and vulnerability Monitoring (HaMMon)

Tuesday 15 October 2024 11:50 (15 minutes)

The HaMMon project is the outcome of an industrial partnership that includes many Italian research institutions and private companies, led by UnipolSai and Leitha. The project is funded from the ICSC, the National Research Centre for High Performance Computing, Big Data and Quantum Computing.

The ambition of HaMMon is to build a flexible and expandable platform to map the hydrogeological and atmospheric balance of the Italian territory, extending the current knowledge in hazard mapping, monitoring and forecasting from industrial perspectives by means of innovative technologies with the interdisciplinary activities carried out by the ICSC National Center's Spokes [<https://www.supercomputing-icsc.it/>].

We will present the current activities and preliminary results related to the integration of Photogrammetry techniques, Data Visualization and Artificial Intelligence technologies, to map and assess the impact of extreme natural disasters, extracting meaningful information on risk-exposed assets.

Acknowledgement

The work is supported by the Spoke 1, 2 and 3 of the ICSC –Centro Nazionale di Ricerca in High Performance Computing, Big Data and Quantum Computing –and hosting entity, funded by European Union –NextGenerationEU.

Primary author: FRANCHINA, Francesco

Co-authors: SCIACCA, Eva; VITELLO, Fabio Roberto; PELONERO, Leonardo; IMBOSCIANO, Mauro

Presenters: SCIACCA, Eva; FRANCHINA, Francesco

Session Classification: Session 5