
Characterizing predictability of extreme convective events through HPC and HydroMeteorology

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Place: Conference room CESGA

Speaker: Dr. Antonella Galizia

Institution: Istituto di Matematica Applicata e Tecnologie Informatiche - CONSIGLIO NAZIONALE DELLE RICERCHE (IMATI-CNR).

Abstract:

The Project is a first attempt to understand the potentials and the limits of space-time predictability of extreme convective events by means of high-resolution meteorological models. The investigation considers the combined use of high performance computing and hydrometeorological observations, and focuses on an intense rainfall episode to enable the comparison of modeling results and available observations.

CV:

Dr. Antonella Galizia obtained the Laurea Degree cum laude in Mathematics at the University of Naples in December 2001, and a PhD in Computer Science at the University of Genova in May 2008. In June 2003 she started her research activity at the IMATI-CNR Genova. Her research interests are in the fields of Parallel and Grid computing with a specific focus on the image processing, in particular she aims to the design and the development of high performance tools for distributed image processing to enable the parallel elaborations of large image datasets and a proper scheduling on Grid resources. Recently, she is working on the exploitation of computing power to allow hydro-meteorological investigations. The aim is the set up an effective collaborative infrastructure to provide the computational power, the storage and the needed communication resources to enable numerical weather simulations to efficiently run models on larger domains at finer resolution.