Invited Plenary Talk

Using Grids for Exploiting Data Abundance in Science
Domenico Talia, University of Calabria, Italy

Digital data volumes are growing exponentially both in all sciences. To handle this abundance in data availability, scientists must embody data analysis techniques in their scientific practices and solving environments to get the benefits coming from knowledge that can be extracted from large data sources.

When data is maintained over geographically distributed sites the computational power of distributed and parallel systems can be exploited for knowledge discovery in scientific data. In this scenario the Grid can provide an effective computational support for distributed knowledge discovery on large datasets. In particular, Grid services for data integration and analysis can represent a primary component for e-science applications involving distributed massive and complex data sets.