EUDAT

PARALLEL TRACKS – TRACK 4 – NEW SERVICES

PARALLEL SESSION: TRACK 4 – NEW SERVICES - 4.2 DYNAMIC & REAL-TIME DATA

CHAIR: ALBERTO MICHELINI, DIRECTOR OF THE NATIONAL EARTHQUAKE CENTER, ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA (INGV)

DATE & TIME: TUESDAY 29TH OCTOBER – 16:30 – 18:30

ROOM: VERDI + MASCAGNI

OVERVIEW:

Some dynamic data is generated by sensors which produce data streams that may be temporarily incomplete (owing to latencies or temporary interruptions of the transmission lines between the field sensors and the data acquisition centres) and that may consequently fill up over time (automatically or after manual intervention). Dynamic data can also be generated by massive crowd sourcing where, for example, experimental collections of data can be filled up at random moments. The nature of dynamic data makes it difficult to handle for various reasons: a) establishing valid policies that guide early replication for data preservation and access optimization is not trivial, b) identifying versions of such data – thus making it possible to check their integrity – and referencing the versions is also a challenging task, and c) performance issues are extremely important since all these activities must be performed fast enough to keep up with the incoming data stream. There is no doubt that both applications areas (namely data from sensors and crowdsourcing) are growing in their relevance for science, and that appropriate infrastructure support (by initiatives such as EUDAT) is vital to handle these challenges.

AGENDA

Dynamic Data Chair: Alberto Michelini, Director of the National Earthquake Center, Istituto Nazionale di Geofisica e Vulcanologia (INGV)
Alberto Michelini: Workshop Results
Herman Stehouwer: Crowd Sourcing Use case
Alberto Michelini: Sensor Data Use Case
Other contributions and General discussion on Dynamic Data in EUDAT
Alberto Michelini: Update New Services