



# European Geoscience Union General assembly 2018

8-13 April 2018, Vienna, Austria

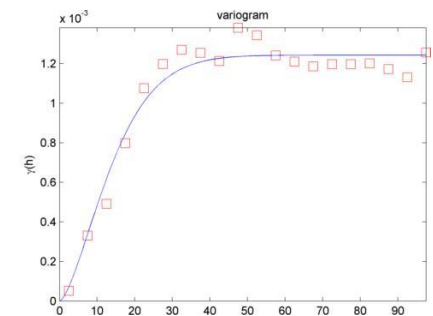
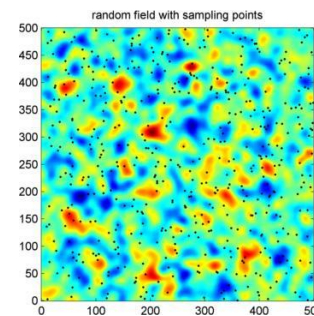
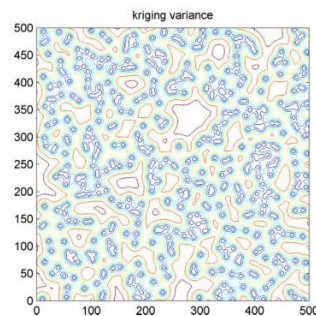
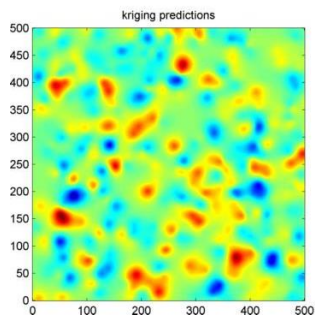


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## Geostatistical and statistical tools to perform the data fusion of large datasets in geo-engineering and environmental studies (co-organized)

*Conveners: D. Di Curzio, A. Castrignanò, A. Micallef, S. Rusi, G. Vessia, R. Viscarra Rossel*

Statistical and Geostatistical methods have been used, since the nineteen-fifties, to deal with spatial and temporal series of data acquired in studies of geological and environmental processes, ground subsurface characterization and monitoring activities of natural hazards. Nonetheless, the abundance of data taken at different locations and times provides a new challenge for scientists, that is integrating diverse spatial and temporal datasets to describe the present conditions of the Earth and try to forecast future changes. In respect of geo-engineering and environmental processes, scientists are requested to investigate the sources and the consequences of several threats to urban, cultivated and natural environments, such as natural hazards, environmental pollution, and land management.



To tackle these problems and try to design actions to recover the impacts of human activity on natural matrices, efficient integration of numerous and multiple source data of temporal and spatial measurements is needed. Geostatistical and statistical tools can play a key role, although they must be still developed and improved to be correctly and efficiently applied to multiple sources and multidisciplinary studies. Thus, this session intends to collect contributions focused on the development of the preceding methods to integrate and fuse large datasets of multidisciplinary sources of measurements. All those interested to exchange new ideas and experiences are warmly welcomed.