Università degli Studi Gabriele d'Annunzio Chieti-Pescara





Doctoral Course in Earth Systems and Built Environments

The following course will be held at the University G.d'Annunzio Chieti-Pescara, Aula Consiglio, Department of Engineering and Geology, Viale Pindaro 42, Pescara:

Handling Uncertainty in Complex Systems

Dott.ssa Serena Doria

Department of Engineering and Geology, University G. d'Annunzio

The aim of the course is to introduce some new results to represent and handle uncertainty in complex systems.

Program

- -Complex systems and complex decisions in the real world. Imprecise probability: a tool to represent partial knowledge.
- (22 March 2018, 9.30-12.00)
- Iterated functions systems, attractors, fractal sets: mathematical models to represent complex systems. (28 March 2018, 9.30-12.30)
- -A measure of the complexity of a set: the Hausdorff dimension; Hausdorff dimensional outer measures. (12 April 2018, 9.30-12.30)
- A new model of coherent upper conditional prevision based on Hausdorff outer measures. (18 April 2018, 9.30-12.30)
- Coherent measures of risk defined by the Choquet integral with respect to Hausdorff outer measures: applications.

(3 May 2018, 9.30-12.30)

Il coordinatore del Dottorato Prof.ssa Isabella Raffi