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Introduction on approaches to deal with uncertainty information within the decision-making process in nuclear emergency

**Training seminar, 16 April 2019
University of Milan, Italy**

Objectives

In emergency management the uncertainty information on the current situation, or its predicted evolution, is an intrinsic problem for decision making. CONFIDENCE aims to improve decision making through the development of approaches to deal with uncertainty information, and to communicate them in such a way that decisions can be made in a more robust manner, reflecting the variability and complexity of the real situation and the decision makers' preferences. The work-programme of CONFIDENCE is defined to understand, reduce and cope with the uncertainty of meteorological and radiological data and their further propagation in decision support systems. Consideration of social, ethical and communication aspects related to uncertainties is a key point of the project activities. Decision making principles are investigated, ranging from formal decision aiding techniques to simulation based approaches.

The training seminar includes an introduction on the NERIS European Platform, on the CONFIDENCE Project and on the approaches based on multi-criteria decision analysis and on the agent based model.

Addressed to

Decision makers and stakeholders who may be involved at different levels in decision making process at post release and transition phase of an event of radiological or nuclear emergency.

Participants will be involved in the panel discussion on how to deal with uncertainties in decision making and on the benefits of stakeholders involvement in the use of uncertainty information.

Dates and venue

The training seminar will take place on April 16, 2019 at premises of the University of Milan, UMIL, the Sala Napoleonica, Via S. Antonio 12, Milan, Italy.

Further information

For more information please contact the hosted Coordinator Marie Claire Cantone, marie.cantone@unimi.it or the event Secretariat, Salvatore Gallo, salvatore.gallo@unimi.it

Important dates

Registration deadline: March 25, 2019

Training seminar: April 16, 2019

Programme

- 9:30 Welcome & introduction
Marie Claire Cantone, UMIL
- 9:40 Italian nuclear and radiological emergency planning and international exercises
Paolo Zeppa, ISIN
- 10:10 The role of CEVaD, Evaluation Data Center, in the Italian Nuclear Emergencies Plans
Mauro Magnoni, ARPA
- 10:30 The activities of CISAM for the management of RN emergencies
Raffaele Zagarella, CISAM
- 10:50 *Coffe*
- 11:20 NERIS, European Platform on preparedness for nuclear and radiological emergency response and recovery
Tatiana Duranova, VUJE
- 11:40 CONFIDENCE, COPing with uNcertainties For Improved modelling and DEcision making in Nuclear emergenCiEs
Tim Müller, KIT
- 12:00 The basis for modelling with MCDA and ABM in decision making under uncertainty
Tim Müller, KIT
- 12:30 A summary of guides and recommendations for the decision making in the post release and transition phase taking into account uncertain information
Tatiana Duranova, VUJE
- 13:00 *Lunch*
- 14:00 Scenario-based stakeholder engagement and involvement in nuclear emergency in decision making, preparedness – Slovak Republic experience in RODOS
Tatiana Duranova, VUJE
- 15:00 Panel discussion on how to interpret, use and communicate uncertainties within the decision-making process and on the benefits of stakeholder involvement in the use of uncertain information.
- 17:00 *Conclusion of the training seminar*