

Call for papers of the special session **Safeguards, Safety and Security**

In the frame of

THE 12TH INTERNATIONAL FLINS CONFERENCE

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ENSAIT, Roubaix, France

Safeguards, Safety and Security

Promoting safeguards, safety and security in relation to the use of nuclear technologies, or the so-called ³S concept, has become a cornerstone for the safe and peaceful use of nuclear technologies. 'Safeguards' refers to the verification inspections by IAEA (and EURATOM) that nuclear material is only used for peaceful purposes in the framework of Non Proliferation Treaty, 'safety' concerns the protection of people and environment from effects of ionizing radiation, while 'security' encompasses measures for the prevention, detection and response to nuclear terrorism and threats thereof. While this framework was developed for nuclear technologies, several concepts are applicable to a broader framework.

In this context, efficient decision support for risk analysis and mitigation as well as under crisis and disaster situations has several challenges and requirements. It requires multi-disciplinary approaches, including intelligent information processing technologies able to support optimal decisions even under incomplete or low quality information sources. This encompasses several aspects, among other, meaningful data representation, quantification of data quality, knowledge representation and modelling and assessment of decision reliability. In addition, providing . The focus of the track is on challenges and approaches in safeguards safety and security research. To address these challenges specialised approaches need to be developed to derive robust recommendations, which include, but are not limited to vulnerability analysis, reliability assessment, data quality quantification, disaster informatics , information fusion, rule based systems. This special session focuses on papers responding to the knowledge modeling and decision support needs for safeguards, safety and security.

Experts and scholars of excellence in the field of safeguards, safety and security are invited to present their latest and inspiring works. Contributions from outside the nuclear field dealing with topics connected to safeguards, safety and security are also welcome. Theoretical and practical contributions are both welcome for this special session.

All full papers should be submitted in accordance to the deadlines set by FLINS 2016 according to the format given on the website of FLINS2016 <http://flins2016.ensait.fr/>.

Organisers

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