



## TIEMS 2015 Annual Conference

*“Evolving threats and vulnerability landscape: new challenges for the emergency management”*

<http://www.tiems-ic.it>

September 30—October 2 , Rome (Italy)

### CALL FOR PAPERS

Emergency Management (EM), in its modern acceptation, gathers activities embracing much more than “hot” phase of Emergency Scenarios. These focus at enhancing system’s Resilience, at increasing Preparedness of involved Operators, at training Managers, at developing “synthetic” scenarios to improve abilities to design contingency plans. To date, technological advancements are used in “push” and “pull” modes: on the one hand, technology helps designing and realizing new tools for supporting EM needs (top-down approach), on the other hand, they are providing invaluable clues for enabling new services which are prompted to the attention and usefully customized for supporting EM needs (bottom-up approach).

In the 2015 Annual Conference, TIEMS wishes to improve the EM attitude to gather new insights from emerging technologies and new issues, by comparing EM operators with Technologists in new and emerging technological fields. The Conference will be divided into 5 Thematic Sessions (Tracks):

**T1M:** *Best practices in Civil Protections (Chair: Dr. Massimo Simonelli, ISPRA Italy).*

In this Track, we will solicit Public Authorities and Stakeholders to share best practices in the different EM areas: organizational, technological, “governance”

- ◆ Invited Speaker: Dr. Fabrizio Curcio (Head, EM Office, Italian Dept. of Civil Protection) (t.b.c.)

**T1A:** *Risk Management of “new” classes of phenomena (Chair: Dr. Gregorio D’Agostino, ENEA and AIIC, Italy)*

Pandemics are new (albeit ancient) critical scenarios which nowadays relate to several domains, from public health to telecommunication systems. Their management requires the development of new systems for reducing and mitigating outbreak effects but also for anticipating the outbreak itself, by increasing vulnerability threshold and improving resilience properties of the possibly wounded systems.

- ◆ Invited Speaker:

⇒ Prof. Alessandro Vespignani, Northeastern University, Boston (USA)

**T2M:** *Preparedness and Resilience enhancement in growing metropolitan areas: are “smart cities” coping with these issues? (Chair: Dr. Alessandro Coppola, Roma Capitale)*

In this Track, we will attempt to show if, aside to efficiency, social inclusion, sustainability, the issue proper of risk and emergency managements are equally considered in “smart city reject” and new urban planning

- ◆ Invited Speaker:

⇒ Dr. Daniel Stevens, Director of Emergency Management at City of Vancouver

⇒ Dr. Michael Berkowitz, Rockefeller Foundation, “100 Resilient Cities” project (tbc)

**T2A:** *New technologies, use of big data, collaborative approaches to sustain Emergency Management (Chair: Prof. Roberto Baldoni, University of Roma)*

In this Track, we will attempt to introduce the new technological systems (from ICT, SW, IA etc.), the new tools for extracting information useful for risk prediction and management from open big data and the new sources of collaborative (web based) systems enabling new options for enhancing efficiency of emergency management.

- ◆ Invited Speaker:

⇒ Prof. Dirk Helbing, ETH Zurich (tbc)

**T3M:** *Decision Support Systems for Risk management in the Cold and Hot Phases (Chair: Dr. Sandro Bologna, TIEMS IC)*

In this Track, we will review new concepts and implementations of classical technological systems (prediction tools, DSS etc.), in order to stress their

### International Scientific Board

Prof. José Martí  
University of British Columbia—Canada

Dr. Eric Luijff, TNO, The Hague, Netherlands

Dr. Massimo Mario Simonelli,  
ISPRA Roma, Italy

Dr. Stefano Marsella, ISA  
Roma, Italy

Mr. K. Harald Drager, TIEMS  
International

Prof. Paolo Trucco  
Milano Polytechnic , Milan  
Italy

### Conference Chair

Dr. Carmelo Di Mauro, RGS,  
Milano (Italy)

### Topics

Emergency Management

Risk Analysis and Preparedness

Dr. Vittorio Rosato, ENEA, Roma (Italy)

Dr. Carmelo Di Mauro, RGS, Milano (Italy)

usability and their current use in different contexts.

◆ Invited Speaker

⇒ Dr. Craig Gordon, NISAC Program Manager, Capability Development, Modelling, and Crisis Action (tbc) .

**Paper submission details**

TIEMS wishes to act as a platform for bringing academic research, industrial and operational needs together. Therefore, industrial contributions and real-world experience reports are explicitly invited. We solicit two types of papers to be published in the main proceeding of the conference: 1) regular papers (up to 14 pages) and 2) practical experience reports and tools (up to 8 pages). In both categories, papers submitted will be reviewed by at least three program committee members. They must not have been previously published or concurrently submitted elsewhere. See the website for further details. Please use the following link to submit your paper: <https://easychair.org/conferences/?conf=tiems2015> ac

**Thematic Workshops**

TIEMS wishes to prompt the interest to allow presentation of thematic workshops on selected area of Emergency Management. The Workshop proposer should briefly examine the topic in relation to its relevance on Emergency Management. The Workshop, if accepted, could be hosted within parallel thematic sessions to be run during the first two days (September 29 and 30) of the Conference.

**Publication of scientific contributions**

All accepted papers will be submitted for publication on International Journal of Disaster Risk Reduction (Elsevier)

**Topics**

The conference covers all aspects related to Emergency Management, Risk Analysis and Preparedness activities, either for predicting Critical Scenario and for managing hot phases.

**Topics include, but are not limited to:**

- ◆ monitoring and fault prediction infrastructures,
- ◆ risk reduction and mitigation techniques,
- ◆ cyber-physical threats and vulnerability analysis,
- ◆ model-based and experimental assessment of safety, reliability and security;
- ◆ validation and verification methodologies and tools,
- ◆ human and social aspects in emergency managements,
- ◆ management of complex emergency scenarios and
- ◆ epidemic spreading.

**Domains of application are (but not limited to):**

- ◆ threats and emergency on Critical Infrastructures,
- ◆ chemical and nuclear emergency management,
- ◆ telecommunications and networks tools for coping with emergency activities and
- ◆ education & training.

**Submission Link**

<https://easychair.org/conferences/?conf=tiems2015ac>

**Thematic workshop submission:** MARCH 31, 2015

**Abstract submission:** MAY 31, 2015

**Full paper submission:** JUNE 30, 2015

**Notification of acceptance:** AUGUST 31, 2015

Istituto Superiore Antincendi (ISA School, National Fire Brigade Corp)

Via del Commercio 13 Roma nearby Ostiense Railways Station

Ten minutes walking from Metro B "Piramide" stations (Bus lines available: n°23, n°769)

Short walk (700 metres) from Ostiense Railway Station

