TRACK 5 - Data and resilience: opportunities and challenges

Increasingly, organizations and societies embrace new opportunities to foster resilience in disaster settings. Data has been playing an important role from this respect. More specifically, open-data, as well as data analytics solutions and artificial intelligence have supported visualization, the tracking and alerting of disaster events, as well as ad hoc initiatives and bricolage. While practical expectations have been surging regarding the benefits from data use in disaster management, less attention has been devoted of the possible side-effects and the care required for increased use of data in disaster settings.

The literature has highlighted that data is far from being a trivial asset, being easy to copy-paste, hard to interpret, and requiring intense collaboration and a proper governance to avoid any misuse and surveillance. In addition, the rise of data comes with the emergence of new actors, such as platforms, which also questions the future of the emergency sector. This track’s objective is to identify and share expertise with respect to the social, economic, organizational and political perspectives on data and resilience. In this inter-disciplinary track, contributions that address the shadowed issues of future data use in disasters are encouraged. We seek sources of discussion to foster reflexivity among practitioners and scholars. As data represents one of the most promising avenues for resilience, reflexivity towards its most questioning aspects also represents a key condition to hold those promise.

TRACK FORMAT

The track plans for collaborative presentation and exchange along the planned sessions. Preliminary to the conference, the track chairs plan to gather the related submissions by key questions and controversies. The sessions will be organized as panels that will focus on one key question inferred by the track chairs from the submissions. The attendees will present their work as a possible answer to the main key question and will be asked to provide questions and provocative conclusions with respect to the topic of the panel. Each presentation within the panel should not last more than 15 minutes, which would leave room for discussion with the audience. For
the last session, the track chairs will organize a synthesis, putting into perspective the various topics and questions addressed in the track. The track will conclude with an open discussion of what practical recommendation could be possibly phrased (and how).

**TRACK TOPICS**

The track intends to tackle one of the most promising avenues for disaster resilience, namely data access and use. Therefore, contributions on the following questions are being encouraged.

- **How to use data to its full potential?** What are the risks and limitations of an increasing use of data before, during and after disasters?
- **What are the actors involved in data use in future disasters?** What are their needs and how do they collaborate with each other?
- **What are the implications of massive data access and use on the emergency sector?**
- **How should the emergency sector transform in the data era?** How does the emergence of new sources of expertise of data use impact the emergency sector? How do organizations have to prepare in order to develop the required skills for the use of data in disasters?
- **How can data help design a more resilient emergency and disaster management system?**

Alternatively, submission can tackle the following topics:

- **Community resilience and citizen generated data**
- **Data-driven framework for improving resilience in various disaster scenarios**
- **Data-driven framework for improving resilience in various emergency management cycles**
- **Designing resilience with multiple stakeholders data needs**
- **Data and map support for improving community resilience**
- **Multi-event disaster resilience and data**
- **Integrating data from individual, community, responder stakeholders into disaster resilience**
- **Indicators and metrics to measure disaster resilience improvements**

The track is chaired by scholars from multiple disciplines (sociology, organization theory, computer science), who have extensive experience at reviewing high quality journals and conference. Interdisciplinary contributions are very welcomed.
TRACK CHAIRS

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