MDM has a tradition of exciting and well-attended panel discussions from leaders in academia and industry. This year, we continue this tradition with one panel on the crucial topic of query answering over big mobile data.

**Panel Title:** Advanced Query Answering Techniques over Big Mobile Data

**Coordinator:** Alfredo Cuzzocrea, University of Trieste, Italy

**Abstract:**

Mobile environments are “classical” settings where big data arise, mostly raised up by emerging (mobile) environments such as social networks, sensor networks, IoT infrastructures, and so forth. This phenomenon introduces a novel class of big data, the so-called big mobile data. Big mobile data demand for novel models, techniques, and algorithms devoted to the annoying problem of effectively and efficiently querying large-scale, enormous, highly heterogeneous amounts of data, which is now living a renewed season precisely due to the advent of the big data era. Indeed, classical approaches developed during decades of database research activities demand for novel adaptations and optimizations explicitly tailored to deal with the (many) V-requirements of big data management in mobile environments. In line with this emerging research trends, this panel will focus its attention on state-of-the-art proposals in the area of advanced query answering techniques over big mobile data, and will propose critical comments about the pros and cons of actual research efforts along with future research directions to be considered in future years.

We hope through the personal perspective of the panelists and the interaction with the audience, the panel will identify some research challenges and innovation opportunities.

**Matthias Renz,** Ludwig-Maximilians-Universität München  
**Claudia Roncancio,** University of Grenoble, France

*IEEE MDM 2016 Panel Co-Chairs*