Title: **Data Deluge: Challenges and Opportunities**

Nowadays not just the scientific communities but every organization faces mountains of data, often with conflicting information. In this talk, the speaker will examine various options for dealing with data deluge, and will point out the need for a new enabling technology to support data analysts and decision makers. In particular, the speaker will discuss the definitions of three primary entities, namely *data, information* and *knowledge*, and the relationships among them. He will present the state of the art and challenging problems in a variety of information-centric activities, including collection, retrieval, processing, visualization, analysis and dissemination.