Abstract:

Design of data science algorithms and techniques, central to the Internet and on-line media, needs to be revolutionized. Current designs ignore participants’ strategic incentives. We are establishing an entirely new repertoire of incentive-compatible data science algorithms and techniques, with major applications in search and information retrieval, recommendation systems, regression, on-line learning, clustering and segmentation, and social networks analysis. In this talk I will introduce our research agenda, and discuss in more detail couple of concrete contributions.