Human-Cyber Networks: Performance, social Media, and the Arab Spring

Increasingly researchers are finding the need to handle vast quantities of relational or "network" data. Typically this data is generated by humans engaged in social networking. But what is the nature of this data? How has it been assessed? What kind of technologies are needed? This talk presents an overview of Dynamic Network Analysis and discusses results and challenges in applying these techniques in novel contexts. Application examples are drawn from several areas including improved radio performance, disaster response, and the Arab Spring. General insight into existing and needed technologies is provided.