Summary

The course integrates concepts from media studies, machine learning, multimedia and network science to characterize social practices and analyze content in sites like Facebook, Twitter and YouTube. Students will learn computational methods to infer individual and networked phenomena in social media.

Content

SCHEDULE

ROOM: ELG120. On Friday (22.02 to 31.05) from 10:15 to 13:00

The course will present a human-centered view of computational social media. It uses a multidisciplinary approach and integrates concepts from media studies, multimedia information systems, machine learning, and network science to present the socio-technical fundamentals needed to understand the motivations, characterize the behavior, and analyze the content and relations of social media users and communities in sites like Twitter, Facebook, Flickr, YouTube, and Foursquare. Students will become familiar with computational approaches for classification, discovery, and prediction of individual and networked phenomena in social media.

The content is organized around trends in social media, introducing computational models of general applicability.

3. Tweeting. From random chatter to worldwide pulse. Followers, hashtags, topics, events, and network effects. Analyzing phenomena on Twitter.
4. Shooting. Photo sharing and tagging in Flickr, Pinterest, and Instagram. Media, user and community analysis enabled by photo sharing.
5. Watching. YouTube as a media phenomenon. Video blogging. Multimedia techniques (audio, video, text) to analyze social video.

Keywords

Social Media, Social Networks, Multimedia, Machine Learning.

Learning Prerequisites

Required courses
Beginning PhD level in Electrical Engineering or Computer Science. Students from other disciplines (e.g. geography and sociology) can talk to the instructor during the first lecture of the course.

**Assessment methods**

Multiple.

**Resources**

**Websites**