

Krishna Gummadi

Max Planck Institute for Software Systems (MPI-SWS)

Discrimination in Human vs. Machine Decision Making

Machine (data-driven algorithmic) decision making is increasingly being used to assist or replace human decision making in a variety of domains ranging from banking (rating user credit) and recruiting (ranking applicants) to judiciary (profiling criminals) and journalism (recommending news-stories). Against this background, in this talk, I will pose and attempt to answer the following high-level questions:

- (a) Can machine decision making be discriminatory?
- (b) How can we quantify discrimination in machine decision making?
- (c) Can we control machine discrimination? i.e., can we make machine decisions more fair?