Special Issue

Mitigating AI Risk in Healthcare Through Ethical Data Science

Message from the Guest Editors

Artificial Intelligence (AI) has the potential to improve healthcare outcomes, yet AI technologies can also pose risks to individuals, communities, and society. For example, AI systems that are trained on biased data may perpetuate the discrimination against disadvantaged patients. Bias in AI, defined as "unfair systematic error", or more specifically, "the inclination or prejudice of a decision made by an AI system which is for or against one person or group, especially in a way considered to be unfair" is a topic of vital importance in the informatics and healthcare communities. As AI systems proliferate in clinical decision support and other applications crucial to people's wellbeing, bias and the risks it creates in AI demand careful consideration and in-depth discussion. The burgeoning field of ethical data science provides a venue for exploring the causes of bias in AI, and how to correct them, rendering AI output as true, realistic, and fair to all demographic and socio-economic groups.

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