



Socially Responsible AI for Autonomous Vehicles

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Abstract: Autonomous vehicles represent a complex topic that necessitates in-depth analysis across multiple academic disciplines. As some claim that autonomous vehicles represent the moonshot for AI and machine learning, the development and testing of autonomous vehicles, however, go way beyond the technical aspect of algorithm development and training. In this proposal, we propose to initiate the dialogue of socially responsible AI for autonomous vehicles, by working closely with the autonomous vehicle consortium that is currently active at Penn State. Questions to study include, but are not limited to AV decision making in situations of moral dilemmas, AI bias in self-driving, Human bullying AV, and AV adaption to heterogeneous driving scenarios. We will discuss and identify the potential issues of AI in AV, foster cross-disciplinary collaborations, and brainstorm research ideas to pursue external funding opportunities. Faculty from multiple departments will work together to promote, practice and study socially responsible ways of using, building, and deploying AI technology for autonomous vehicles.