

26 April 2019

Towards Friendly AI: Designing Human-(Socially) Aware Systems

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Abstract

The innovation that Artificial Intelligence (AI) brings to our modern world is almost tangible. The new decade is going to be enhanced with more automation everywhere and robotics powered by AI. However, there is a lot of hype and hysteria around the future of AI and how humans will need to adapt and get used to co-living with it. This talk explores the topic of selected human-directed artificial intelligence applications as a building block towards friendly AI-based system. Technically, a "Friendly AI" is an AI-based system that takes actions that are, on the whole, beneficial to humans and humanity; benevolent rather than malevolent; nice rather than hostile. This particular concept combines aspects of AI with knowledge from human-directed disciplines including, but not limited to cognitive sciences, psychology, sociology, neuroscience, and biomedical sciences. Therefore, from the diverse and growing number of AI-based systems, a variety of aspects of human and socially aware systems have been and are being developed to support fluid and friendly human-machine interaction by performing a more in-depth analysis of the human's functioning. Thus, this can result in an environment / machine that may more proactively affect the state of humans by undertaking in a knowledgeable manner actions that improve their wellbeing and performance. In addition, "Friendly AI" is also important to the extent that as present-day society has begun debating the peril and promise of advanced AI technology.