

Privacy-Sensitive Robotics

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Abstract

This dissertation focuses on personal privacy in human-robot interaction, which we call “privacy-sensitive robotics.” Our understanding of “privacy” is very broad, including not just information privacy but also physical, psychological, and social privacy. We begin by surveying the scholarly literature on privacy and talking about why it applies to interactions with robots. We then make five contributions to help launch privacy-sensitive robotics as an emerging area of research---one from a literature review, three from empirical studies, and one about the future of privacy-sensitive robotics research. We close with a call to action for potential privacy-sensitive robotics researchers.

November 20th, 2018

10AM, Rogers 226

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