



توانمندسازی کاربران در درک و تحلیل مخاطرات امنیتی و حریم خصوصی در خانه های هوشمند

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Abstract: Home users use various smart IoT devices in homes and employ different applications such as trigger-action apps to control devices or connect them to online services making new functionalities. However, there is an inherent risk associated with connecting IoT devices and online services: sensitive information can be leaked by apps simply from the context of use (e.g., where the device is located, who can observe the resultant action, and so on). While recent research has investigated privacy and security concerns in IoT and trigger-action frameworks, little research has investigated the extent to which end users are able to assess such risks or what role contextual factors play in end user risk assessments. If end users cannot do risk assessments, they may expose their sensitive data. Our research aims to improve users' understanding of privacy & security risks associated with smart-home trigger-action apps. To achieve this goal, we explore end user concerns with IoT devices and applications and the impact of usage context on their concerns. We also investigate the impact of a privacy nudge containing a violation scenario on end user decisions to use apps with potential privacy and security risks.

Biography: Dr. Mahsa Saeidi is a research associate at Oregon State University (OSU) working with Dr. Houssam Abbas. Previously, She completed her Ph.D. at OSU under the supervision of Dr. Anita Sarma and Dr. Rakesh B. Bobba. Her research interest lies at the intersection of privacy, security, and human-computer interaction with the current focus on smart homes: i) studying end users' perceptions and expectations of privacy in smart homes, and ii) developing new approaches to help end users manage their privacy better. Prior to her Ph.D., she completed a Bachelors in Software Engineering and a Masters in Computer Science from Amirkabir University of Technology

