Multi-jurisdictional Privacy Compliance in IoT era

Regulatory Compliance Software Engineering (RCSE) is one of the most challenging problems that software engineers and designers face. To ensure protecting the privacy and confidentiality of the data, governments introduce many new privacy-related regulations across multiple jurisdictions. These regulations, however, are not always aligned with each other and in many cases they cause conflicts and/or mismatch. Furthermore, the raise of the Internet of Things (IoT), cloud computing and big data present fundamental challenges for privacy, security, and trustworthiness. For example, IoT devices are constantly generating and collecting data from many various places at a rate which did not exists before. As a result, engineers and analysts face many challenges in terms of protecting the privacy of individual and complying with multiple jurisdictions around the world on one hand, and providing high quality services to the consumer on the other hand. In this talk, Dr. Ghanavati focuses on identifying the challenges faced by software engineers and analysts while dealing with privacy-related regulations and policies and discusses some of her recent contributions in overcoming these challenges.