

Stakeholders' Social Interaction in Requirements Engineering of Open-Source Software

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Abstract:

Requirements engineering (RE) is a human-centric activity that requires interaction among multiple stakeholders. Traditionally, RE has been considered as a centralized, collocated, and phase-specific process. However, in open-source software (OSS) development, stakeholders' social interaction is often decentralized, iterative, and dynamic. In my research, I focus on this dynamic nature of stakeholders' social interaction in OSS RE. In particular, I examine stakeholders' social interaction in creativity in RE, requirements identification, and requirements realization utilizing models and theories originally developed in other disciplines, such as sociology and anthropology. My research shows the important role social interaction plays in such RE activities, and further demonstrates an automated support for creativity in RE.

Biography:

Tanmay Bhowmik is a Ph.D. candidate in the Department of Computer Science and Engineering at Mississippi State University. He obtained his M.S. degree in Computer Science from the same department in 2010. He completed his Bachelor's in Computer Science and Engineering from National Institute of Technology, Durgapur, India, in 2007. Mr. Bhowmik's Ph.D. dissertation focuses on software engineering, especially seeking a fundamental understanding of how stakeholders' social interaction influences requirements engineering (RE) of open-source software (OSS). His current research interests include social aspects in software engineering, requirements engineering, software security, digital forensics, big data, software maintenance, software ecosystems, refactoring, requirements traceability, and software engineering education. He is a member of ACM and IEEE.