

Software Analytics in Practice

by

Ayşe Tosun

Date and Time: April 12th, 2017 (Wednesday), 13:00
Place: Room 207, Computer Engineering Building, GTU

All interested are cordially invited.

ABSTRACT:

In this talk, I will define software quality from the perspective of developers and managers. Then I will introduce data analytics techniques used to improve software quality in terms of bugs. I will also talk about different challenges encountered by software development teams, such as finding co-changed software modules, predicting the time to fix a particular bug, and how data analytics would provide an opportunity to build automated, learning-based prediction models for solving these challenges.

BIOGRAPHY:

Dr. Ayse Tosun is an assistant professor at Faculty of Computer and Informatics Engineering, Istanbul Technical University (ITU), Istanbul, Turkey. Prior to joining ITU, she worked as a post-doctoral research fellow at Department of Information Processing Science, University of Oulu, Finland. She received her PhD in 2012, and MSc degree in 2008 from Department of Computer Engineering, Bogazici University, Turkey. Her research interests are empirical software engineering, more specifically mining software data repositories, software measurement, software process improvement, software quality prediction models, and applications of AI on building recommendation systems for software engineering.