Institute Lecture

Automating Repetitive Tasks for the Masses

Dr. Sumit Gulwani
Principal Researcher
@ [Microsoft Research](#) (Redmond Lab)

Wednesday, 18th February 2015; 6.00 PM*

Venue: Room No 101, Rajeev Motwani Building

Abstract of the talk:

The recent IT revolution has resulted in the masses having access to personal computing devices. More than 99% of these computer users are non-programmers and are today limited to being passive consumers of the software that is made available to them. In this talk, we will discuss two applications related to empowering these users to more effectively leverage computers for their daily repetitive tasks. In the first half, I will describe technologies for end-user programming of data manipulation tasks using examples and natural language. In the second half, I will describe technologies for automated feedback generation and problem generation for various subject domains including math, programming, and language learning.

About the Speaker:

Dr. Sumit Gulwani is a researcher at *Microsoft Research* and an adjunct faculty in the Computer Science Department at IIT Kanpur. He is interested in cross-disciplinary areas of end-user programming and intelligent tutoring systems. He obtained his PhD from University of California - Berkeley in 2005 and was awarded the ACM SIGPLAN Outstanding Doctoral Dissertation Award. He did BTech from IIT Kanpur in 2000 and was awarded the President's Gold Medal. He has received the 2014 Robin Milner Young Researcher Award for outstanding contributions to the area of programming languages.

All interested are welcome to attend.

*Tea at 5:45 PM

Prof. K. Muralidhar
Dean of Research and Development