ON THE IMPORTANCE OF COMPREHENSION OF THE COMPUTATIONAL MODEL UNDERLYING COMPUTER SYSTEMS

Abstract:
Computer programming is the process of moving from a specification of a problem to be solved to the formulation of a solution to the problem that can be executed on a computer. The design and implementation of this solution mandates comprehension of the language used to code the solution together with comprehension of the computational model used by the computer during execution. In this talk, we highlight some issues involved in understanding the computational model, with emphasis on memory management. We illustrate the problem and some solutions through demonstration and visualization.

Bio:
Brian Malloy is an Associate Professor in Clemson University’s School of Computing. His research interests are in software analysis, comprehension, visualization, testing, and maintenance, as well as compiler technology, grammarware, front-end construction and development. In addition he is well known at Clemson for his teaching of 2D and 3D Video Game Development. His Ph.D. in Computer Science is from the University of Pittsburgh. He also holds M.S. and M.Ed. degrees from Pittsburgh, and a B.A in Mathematics from LaSalle.

Friday, December 4, 2015 @ 2:30 pm     McAdams Hall, Room 119

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