

## Report

(1) Name: W. Eric Wong

(2) Title: Professor

(3) Affiliation: Department of Computer Science, University of Texas at Dallas, USA

(4) Short Biography:

W. Eric Wong received his B.S. in Computer Science from Eastern Michigan University, and his M.S. and Ph.D. in Computer Science from Purdue University. He also received a certificate from the Georgia Tech Mid-Management Certified Program in 2001. In addition, he was a member of the Telcordia PDP Class of 2000, a two-year leadership development program offered to a limited number of selected employees of Telcordia Technologies (formerly Bellcore or Bell Communications Research).

Currently, Dr. Wong is a Professor and Director of International Outreach in Computer Science at the University of Texas at Dallas. He is the Group Leader for the Software Engineering Group. He also has an appointment as a Guest Researcher from NIST (National Institute of Standards and Technology), an agency of the U.S. Department of Commerce, located in Gaithersburg, Maryland. Before joining UTD in 2002, he was with Telcordia Technologies as a Senior Research Scientist in Applied Research and a project manager under the Horizon Research Program. Dr. Wong is the Vice President of the IEEE Reliability Society and the Secretary of the ACM SIGAPP (Special Interest Group on Applied Computing). He is also the founder and Steering Committee Chair of the IEEE International Conference on Software Security and Reliability (SERE – formerly SSIRI).

(5) Subject and Schedule of the Lectures:

As a part of the course ``Software Reliability Engineering'' in Department of Information Engineering, Graduate School of Engineering

July 30, 2012, 8:45-10:15 Software reliability and quality

July 31, 2012, 8:45-10:15 Software testing I

August 1, 2012, 8:45-10:15 Software testing II

August 2, 2012, 8:45-10:15 Fundamental issue on software fault localization

August 2, 2012, 10:30-12:00 Advanced topics on software fault localization techniques

The lectures with technical lessons in English were intended to give complementary topics on the software reliability engineering.

In the first lecture, the representative software reliability and quality notion was introduced with some real examples. In the subsequent two lectures, the fundamental theory and practice in software testing were introduced. In the fourth lecture, a quantitative method called software fault (bug) localization was introduced. Since this is the main research topics in a series of lectures, the basic concept, related work and real application examples were explained comprehensively. Finally, the advanced theory and empirical study were introduced, where the utility, limitation and open problems for software fault localization techniques were discussed.

(6) Comments:

