

REPORT



(1) **Name:** Dr. Kazuhira Okumoto

(2) **Title:** Distinguished Member of Technical Staff

(3) **Affiliation:** Wireless Reliability Engineering, Alcatel-Lucent, U.S.A

(4) **Short Biography:** Kazu Okumoto is a recognized expert in software reliability, quality metrics, statistical trend analyses, system performance analysis, and system engineering with strong management experience in software development, system engineering and customer technical support. He completed his Ph.D. & M.S. in IE&OR from Syracuse University in 1979 & 1976, respectively, and B.S. in IE from Hiroshima University, Japan in 1974. Dr. Okumoto co-authored a book on software reliability in 1987 and published over 25 papers in technical journals, including a most referenced paper in software reliability. He has been with AT&T Bell Labs/Lucent Technologies/Alcatel-Lucent since 1980, taking on a wide range of technical and management assignments

Assistant Professor at Rutgers University from 1979 to 1980.

(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, 2013, 8:45-10:15

- Introduction - Class
- My personal/professional career
- Bell Labs technical contributions
- Why is SW reliability important?
- SW defect find process

July 31, 2013, 8:45-10:15

- SW reliability practice
- SW reliability data collection & analysis
- SW reliability prediction - Overview

August 1, 2013, 8:45-10:15

- SW reliability prediction – Step by Step
- Uses of SW reliability models

August 2, 2013, 8:45-10:15

- SW design for reliability

August 2, 2013, 10:30-12:00

- Seminar: Software Reliability & Availability: Measurement, Prediction, Application

(6) Comments: As an Alumni of Hiroshima University, I was honored to have this opportunity to share my academic and professional experiences working abroad in the US for over 35 years. I provided practical aspects of software reliability engineering based on my current work. Also discussed were Bell Labs technical innovations (e.g., transistor, Laser, UNIX operating system and C language). It helped the students understand and appreciate the importance of these technical innovations underlying today's information society.

The purpose of this course is to provide students with a class environment similar to typical courses taught in English by inviting professors from overseas to share their knowledge and experiences. It is important for students to understand the global work environment. I highly recommend courses like this to continue in the future.