

Report

(1) Name: Min Xie

(2) Title: Chair Professor



(3) Affiliation: Systems Engineering and Engineering Management Department, City University of Hong Kong, Hong Kong

(4) Short Biography:

Min Xie received his Ph.D. in Quality Technology in 1987 from Linköping University in Sweden. He was awarded the prestigious LKY research fellowship in 1991 and currently he is a Professor at National University of Singapore. Prof Xie has authored or co-authored numerous papers and eight books on quality and reliability engineering, including Software Reliability Modelling by World Scientific Publisher, Advanced QFD Applications by ASQ Press, Weibull Models by John Wiley, and Computing Systems Reliability by Kluwer Academic. Prof Xie has served as chair and committee members in over 100 international conferences and delivered keynote speech at a number of them. He has supervised over 30 PhD students, now holding various positions in industry, academia and financial institutions. Prof Xie is an elected fellow of IEEE.

(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

August 1, 2011, 8:45-10:15 Introduction to software reliability models

August 2, 2011, 10:30-12:00 Some NHPP models, especially those with graphical interpretation

August 2, 2011, 12:50-14:20 Some recent applications of software reliability models for system reliability analysis

August 3, 2011, 12:50-14:20 Application examples and case studies

August 3, 2011, 14:35-16:05 Solving renewal equations

(6) Comments:

I find this to be an interesting arrangement of the university and the department. There are courses taught in English and Professors from overseas can be invited to give a few lectures to share their knowledge and experience, so that this is a true international program.

In this particular part, I provided a general overview of software reliability models with the emphasis on the model assumptions and their applications. Examples are used to illustrate the potential problems when using these models. Possibilities to further improve the modeling and applications are also discussed. Finally, my experience when I started writing computer program to solve renewal equations is shared with the students.