



Operations Research Seminar

Economic Optimization of Off-Line Inspection

Yale T. Herer

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In this talk we explore the problem of determining the optimal inspection/disposition policy for a finite batch of items produced by a machine which is subject to random breakdowns. This talk will explore two separate, but related works. In the first work, we investigate situations in which the disposition of some of the units can and should be made without unquestionably identifying their status. In the second we apply information theory to the problem of finding the first nonconforming unit in the batch at minimum cost.

Biography: Yale T. Herer, B.S. (1986), M.S. (1990), Ph.D. (1990), Cornell University, Department of Operations Research and Industrial Engineering. Yale joined the Faculty of Industrial Engineering and Management at the Technion—Israel Institute of Technology in 1990 immediately after the completion of his graduate studies. In 1997 Yale joined the Department of Industrial Engineering at Tel-Aviv University and in 2001 he returned to the Technion. He is presently the Head of the Industrial Engineering Area at the Technion. His research interests include supply chain management, especially when integrated with transshipments. He is also interested in production control and production system design.

Date: Monday, May 12, 2008

Time: 15:00-16:00

Location: Glasgow 286