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on

Statistics in Industry: A Review of Recent Developments and Challenges

Speaker: Professor Vijay Nair, University of Michigan – Ann Arbor, USA

Date: 29 January, 2004 (Thursday)

Time: 10:00 a.m. – 11:30 a.m.

Venue: EA-06-02, Faculty of Engineering, NUS

Abstract: Statistical methods have played a major role in industry for a long time, dating back to the pioneering work of Walter Shewhart. There have been many significant developments such as statistical process control, design of experiments, accelerated testing in reliability, and so on. In recent years, the environment in advanced manufacturing and high-technology industries is changing rapidly. Also, massive amounts of data are now collected routinely in manufacturing and business applications. There is a need to analyze and exploit the extensive information available from in-process and product quality data for timely diagnosis and process improvement. This talk will survey past developments and highlight some new research directions.

About the Speaker: Vijayan N. Nair is the Donald A. Darling Professor of Statistics and Professor of Industrial and Operations Engineering at the University of Michigan, Ann Arbor. He has also been Chair of the Department of Statistics since 1998. Previously, he was a research scientist at Bell Laboratories from 1978-1993. His research interests include statistics in advanced manufacturing, spatial modeling, quality improvement, reliability, design and analysis of industrial experiments, and process control. Prof Nair is a Fellow of the American Association for the Advancement of Science, the American Statistical Association, and the Institute for Mathematical Statistics. He is an elected member of the International Statistical Institute and a senior member of the American Society for Quality. He is a past-editor of *Technometrics* and the *International Statistical Review* and has served on the editorial boards of several other statistical journals. Prof Nair received his B. Econs (Hons.) degree from the University of Malaya and a Ph. D. in Statistics from the University of California, Berkeley.

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