

SUMMARY:

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Type: Traditional Session
Title: INTEROPERABILITY AND PRODUCTIVITY - A CHALLENGE IN ENGINEERING IT

Abstract:

Engineering IT is a leading field in productivity improvement in the industry. Nowadays, IT tools have been applied in almost all the processes from conceptual design, to process analysis, manufacturing, project management. The interoperability and system integration has been a challenge and demands a systematic solution. A feature-based life-cycle approach is proposed in this presentation to implement IT projects in various engineering projects with system integration and interoperability considered.

Problem:

What are features? What is the concept of interoperability? What are the feature-based engineering IT solutions? Associative features and their enormous applications in engineering IT are to be introduced. Collaborative network engineering is emphasized.

Audience:

Plant technical managers, IT vendors, IT consultants, engineers using IT tools, system integrators, system analysts, and developers

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Biography:

Dr. Yongsheng Ma is a tenured associate professor of University of Alberta. He joined Department of Mechanical Engineering since 2007. Before that Dr. Ma had been a professor with Nanyang Technological University, Singapore since 2000. He has worked in the field of engineering IT as a lecturer, trainer, IT consultant, R&D manager and a professor for the past 18 years. His main research areas include engineering life-cycle management, feature-based product and process modeling. Dr. Ma owns BEng (TsingHua, China 1986), MSc and PhD degrees (Manchester University, 1990 and 1994). He has registered as a P.Eng of Alberta since 2009.