CALL FOR CHAPTER PROPOSALS
Proposal Submission Deadline: January 30, 2012
Business Strategies and Approaches for Effective Engineering Management

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Introduction

Engineering projects are huge undertakings and require serious political commitment, clear vision and robust long term strategy. In order to be successful extensive planning, monitoring and evaluation of such projects is of utmost importance. Most of these initiatives normally fail not due to technical problems but due to management weaknesses often making them delayed and over budget. In this book we aim to focus on this particular area and aim to present theories and strategies to better manage engineering projects.

Objective of the Book

The aims are to give you practical as well as conceptual knowledge of the latest methodologies, principles, practices, tools and technologies for engineering management. The book will present state-of-the-art and future perspectives of EM. Industry experts, researchers, and academicians will share ideas and experiences regarding frontier technologies.

Target Audience

The target audience of this book will be designers of EM processes, academician, students, practitioners, professionals and researchers working in the field of engineering management. This book will be invaluable for theoretical analysis, algorithms and practical applications of engineering management. Universities libraries would be interested in putting up this book in their libraries to enhance the knowledge of engineering students.

Recommended topics include, but are not limited to, the following:

Process Management

- o Fundamentals of Process Management
- o Tools and Techniques of Process Management
- o Manufacturing Systems Management
- o Productivity Management Techniques
- o Production and Operational Management
- o Process Innovation and Development
- o Process Performance Measurements
- o Design Cycle Management
- o Supply Chain Management
- o Engineering Economy and Cost Analysis
- o Maintenance Management
- o Process Management in the future

Knowledge Management

- o Fundamentals of Knowledge Management
- o Role of KM in Research and Development
- o KM Assessment Techniques
- o Success factors of Knowledge based Organizations
- o Shared Knowledge Management Processes
- o Role of Social and Cognitive Aspects of Knowledge Engineering
- o Organizational Learning and Knowledge Management
- o New Product Design and Development

Technology Management
- o Technology Strategy and Management
- o Technology Transfer Theories and Guidelines
- o Technology and Competitiveness
- o Technological Innovation
- o Technology-based Entrepreneurship
- o Technological Foresight
- o Outsourcing and Off-shoring
- o Green Information Technology

Project Management
- o Challenges in Global Manufacturing and Management
- o Computer Applications in Project Management
- o Project Risk, Quality & Procurement Management
- o Project Monitoring, Evaluation & Control
- o Engineering Contract Management
- o Managing Organizational Change
- o Service Innovation and Management

Special Topics in Engineering Management
- o Ethics in engineering projects
- o Legal aspects in global engineering projects
- o Intellectual Property Right and Patent Management
- o Curriculum design for engineering management
- o Teaching Engineering Management

Submission Procedure
Researchers and practitioners are invited to submit on or before January, 30, 2012, a 2-3 page chapter proposal clearly explaining the mission and concerns of his or her proposed chapter. Authors of accepted proposals will be notified by February 15, 2012 about the status of their proposals and sent chapter guidelines. Full chapters are expected to be submitted by May 15, 2012. All submitted chapters will be reviewed on a double-blind review basis.

Publisher
This book is scheduled to be published by IGI Global (formerly Idea Group Inc.), publisher of the "Information Science Reference" (formerly Idea Group Reference), "Medical Information Science Reference," "Business Science Reference," and "Engineering Science Reference" imprints. For additional information regarding the publisher, please visit www.igi-global.com. This publication is anticipated to be released in 2013.

Important Dates
- **January 30, 2012:** Proposal Submission Deadline
- **February 15, 2012:** Notification of Acceptance
- **May 15, 2012:** Full Chapter Submission
- **June 30, 2012:** Review Results Returned
- **July 30, 2012:** Final Chapter Submission
- **September 30, 2012**: Final Deadline

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