



Industrial Engineering Non-Traditional Applications in International Settings: Volume 3

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Industrial Engineering Non-Traditional Applications in International Settings: Volume 3 From CRC Press

Industrial engineering originated in the United States, and although the popularity of this discipline has grown worldwide, there is still little information available outside of the US regarding its practical use and application. **Industrial Engineering Non-Traditional Applications in International Settings** raises the bar and examines industrial engineering from a global perspective. Representing the best papers from the International Institute of Industrial Engineers (IIIE) conference held in Istanbul in June 2013, and developed by contributors from at least six different countries, this material lends their expertise on the international impact of industrial engineering applications and provides a thorough understanding of the subject.

Focusing on two key aspects of the industrial engineering (IE) discipline, non-traditional settings and international environments, the book introduces applications and incorporates case studies illustrating how IE-based tools and techniques have been applied to diverse environments around the world. Each chapter represents a novel application of industrial tools and techniques. In addition, the authors highlight some of the more exciting developments and implementations of industrial engineering. The book enables both students and practitioners to learn from universal best practices and observe the international growth of the discipline.

Consisting of ten chapters, this groundbreaking work includes content that:

- Presents applications in the area of natural resource development, or more specifically open-pit mining, to optimize the extraction sequence of blocks—an operation that can have a major impact on mining profitability
- Studies disasters and details where to best locate sites for disaster waste procession (multiobjective optimization is used to identify site locations and provide solution guidance)
- Examines factors affecting buying patterns and behaviors at private shopping clubs (Turkey is used as a benchmark and a technology acceptance model is used to study the buying behavior)
- Explores optimization methods that can be used to increase the effectiveness of the timing of traffic signals
- Discusses the Turkish banking sector and the measurement of efficiency of its banks (a topic that greatly impacts the emerging financial market)
- Applies quantitative models to study 29 commercial banks and 12 investment banks

Industrial Engineering Non-Traditional Applications in International

Settings explores the globalization of this expanding discipline and serves as a guide to industry professionals including systems, industrials, manufacturing engineers, design, production, environmental, and Lean Six Sigma engineers, and is also relevant to applied ergonomics, business scm, business logistics, and business operations management.

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Editorial Review

Review

"The value of this book lies in applying industrial principles and tools of IE to nontraditional areas. The chapters are presented like research articles. So, the book can be used for both teaching and research. More specifically it is an asset for research led teaching in the field of industrial engineering."

?Arun Elias, Victoria University of Wellington, New Zealand

About the Author

Bopaya Bidanda is currently the Ernest Roth Professor and Chairman of the Department of Industrial Engineering at the University of Pittsburgh. His research focuses on manufacturing systems, reverse engineering, product development, and project management. He has published five books and more than a hundred papers in international journals and conference proceedings. He has received numerous distinctions including the 2012 John Imhoff Award for Global Excellence in Industrial Engineering, the International Federation of Engineering Education Societies (IFEES) 2012 Award for Global Excellence in Engineering Education, the 2013 Albert G. Holzman Distinguished Educator Award, and the 2014 Chancellors Distinguished Public Service Award.

?hsan Sabuncuo?lu is the founding Rector of Abdullah Gul University. He earned his BS and MS in industrial engineering from the Middle East Technical University in 1982 and 1984, respectively. He earned his PhD in industrial engineering from Wichita State University in 1990. His research interests are in real-time scheduling, simulation optimization, and applications of quantitative methods to cancer-related health-care problems. In addition to publishing more than a hundred papers in international journals and conference proceedings, Dr. Sabuncuo?lu has edited two books. He is also on the editorial board of a number of scientific journals.

Bahar Y. Kara is an associate professor in the Department of Industrial Engineering at Bilkent University. Dr. Kara earned an MS and a PhD from the Bilkent University Industrial Engineering Department, and she worked as a postdoctoral researcher at McGill University in Canada. Dr. Kara was elected as an associate member of Turkish Academy of Sciences in 2012. She has been acting as a reviewer for the top research journals within her field. Her current research interests include distribution logistics, humanitarian logistics, hub location and hub network design, and hazardous material logistics.

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