

# INTERNATIONAL JOURNAL OF APPLIED INDUSTRIAL ENGINEERING

July-December 2012, Vol. 1, No. 2

## Table of Contents

### RESEARCH ARTICLES

- 1 Design and Development of Hybrid Stir Casting Process**  
*Abhishek Kamboj, National Institute of Technology Kurukshetra, Haryana, India*  
*Sudhir Kumar, Noida Institute of Engineering and Technology, Greater Noida, Uttar Pradesh, India*  
*Hari Singh, National Institute of Technology Kurukshetra, Haryana, India*
- 7 Continuous Review Inventory Model with Fuzzy Stochastic Demand and Variable Lead Time**  
*Nita H. Shah, Department of Mathematics, Gujarat University, Ahmedabad, Gujarat, India*  
*Hardik N. Soni, Chimanbhai Patel Post Graduate Institute of Computer Applications, Ahmedabad, Gujarat, India*
- 25 The Role of Total Productive Maintenance in Group Technology to Achieve World-Class Status**  
*Hassan Farsijani, Department of Industrial Management, Shahid Beheshti University, Tehran, Iran*  
*Mohsen Shafiei Nikabadi, Department of Industrial Management, Semnan University, Semnan, Iran*  
*Fatemeh Mojibian, Department of Industrial Management, Shahid Beheshti University, Tehran, Iran*
- 36 An Efficient VBA Spreadsheet Algorithm and Model for the System Optimum Traffic Assignment**  
*Jae-Dong Hong, Industrial Engineering Technology, South Carolina State University, Orangeburg, SC, USA*  
*Yuanchang Xie, Civil & Environmental Engineering, University of Massachusetts at Lowell, Lowell, MA, USA*  
*Ki-Young Jeong, Engineering Management, University of Houston at Clear Lake, Houston, TX, USA*
- 53 A Fuzzy Inventory Model for Weibull Deteriorating Items with Price-Dependent Demand and Shortages under Permissible Delay in Payment**  
*Chandra K. Jaggi, Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, New Delhi, Delhi, India*  
*Sarla Pareek, Centre for Mathematical Sciences, Banasthali University, Banasthali, Rajasthan, India*  
*Anuj Sharma, Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, New Delhi, Delhi, India*  
*Nidhi, Centre for Mathematical Sciences, Banasthali University, Banasthali, Rajasthan, India*
- 80 Integrated Quality Function Deployment as a Tool for Quality Achievement in Healthcare**  
*Chintala Venkateswarlu, College of Engineering Roorkee (COER), Roorkee, Uttarakhand, India*  
*A. K. Birru, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India*

### Copyright

The **International Journal of Applied Industrial Engineering (IJAIE)** (ISSN 2155-4153; eISSN 2155-4161), Copyright © 2012 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Applied Industrial Engineering* is currently listed or indexed in: Bacon's Media Directory; Google Scholar; INSPEC; JournalTOCs; MediaFinder; ProQuest Engineering Journals; ProQuest Illustrata: Technology; ProQuest SciTech Journals; ProQuest Technology Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory