Organizational Productivity and Performance Measurements Using Predictive Modeling and Analytics

Table of Contents

Chapter 1: Predictive Analytics for Infrastructure Performance
Sue McNeil, University of Delaware, USA
Susanne Trimbath, STP Advisory Services, LLC., USA
Farzana Atique, University of Delaware, USA
Ryan Burke, U.S. Air Force Academy, USA

Chapter 2: Structural Equation Modeling Algorithm and its Application in Business Analytics
Shahryar Sorooshian, Universiti Malaysia Pahang, Malaysia

Chapter 3: An Integrated Fuzzy VIKOR Method for Performance Management in Healthcare
Ehsan Shekarian, University of Malaya, Malaysia
Salwa Hanim Abdul-Rashid, University of Malaya, Malaysia
Ezutah Udoncy Olugu, UCSI University Malaysia

Chapter 4: An Analytical Algorithm for Delphi Method for Consensus Building and Organizational Productivity
Abd Hamid Zahidy, Universiti Malaysia Pahang, Malaysia
Noor Azlinna Azizan, Universiti Malaysia Pahang, Malaysia
Shahryar Sorooshian, Universiti Malaysia Pahang, Malaysia

Chapter 5: New Product Development and Manufacturability Techniques and Analytics
Alan D. Smith, Robert Morris University, USA

Chapter 6: Transformation of CRM and Supply Chain Management Techniques in a New Venture
Amber A. Ditizio, Texas Woman’s University, USA
Alan D. Smith, Robert Morris University, USA

Chapter 7: A Hybrid AHP-ELECTRE I Multicriteria Model for Performance Assessment and Team Selection
Ikram Khatrouch, University of Lyon and University of Saint Etienne, France
Lyes Kermad, University of Paris8, France
Younes Boujelbene, University of Paris8, France

Chapter 8: Predictive Modeling and its Role in Effective Health Informatics Deployment
Fabrizio L. Ricci, Institute for Systems Analysis and Computer Science, Italy
Oscar Tamburis, University of Naples Federico II, Italy

Chapter 9: Analytics Overuse in Advertising and Promotion Budget Forecasting
Burçin Güçlü, BES La Salle, Universitat Ramon LLull, Spain
Miguel-Ángel Canela, University of Navarra, Spain

Chapter 10: Mastering Business Process Management and Business Intelligence in Global Business
Kijpokin Kasemsap, Suan Sunandha Rajabhat University, Thailand

Chapter 11: Information and Communication Technology Impact on Supply Chain Integration, Flexibility and Performance
Carlos A Talamantes-Padilla, Autonomous University of Ciudad Juarez, Mexico
Jorge L. García-Alcaráz, Autonomous University of Ciudad Juarez, Mexico
Aide A. Maldonado-Macias, Autonomous University of Ciudad Juarez, Mexico
Giner Alor-Hernandez, Instituto Tecnologico de Orizaba, Mexico
Cuauhtemoc Sanchéz-Ramírez, Instituto Tecnologico de Orizaba, Mexico
Juan L Hernández-Arellano, Autonomous University of Ciudad Juarez, Mexico

Chapter 12: A Causal Analytic Model for Labour Productivity Assessment
Manoj Kumar, International Engineering Services, India
Jyoti Singh, International Engineering Services, India
Priya Singh, International Engineering Services, India

Chapter 13: Effective Tools for Improving Employee Feedback During Organizational Change
Tanja Sedej, Graduate School of Government and European Studies, Slovenia
Gorazd Justinek, Graduate School of Government and European Studies, Slovenia

Chapter 14: A Conceptual and Pragmatic Review of Regression Analysis for Predictive Analytics
Sema A. Kalaian, Eastern Michigan University, USA
Rafa M. Kasim, Indiana Tech University, USA
Nabeel R. Kasim, University of Michigan, USA

Chapter 15: Student Retention Performance Using Absorbing Markov Chains
Dennis Crossen, La Salle University, USA

Chapter 16: An Analytical Employee Performance Evaluation Approach in Office Automation and Information Systems
Maryam Kalhori, University of Science and Culture, Iran
Mohammad Javad Kargar, University of Science and Culture, Iran