Table of Contents

Preface .................................................................................................................................................... xix
Acknowledgment .................................................................................................................................. xxx

Section 1
IT Professionals Human Resource Management

Chapter 1
A Dynamic Approach to Introduce Competency Frameworks: Application to the IT & Systems Management Domain ........................................................................................................................................... 1
Alfonso Urquiza Echavarren, Universidad Francisco de Vitoria, Spain

Chapter 2
Project Managers’ Competence Identification ............................................................................................................. 17
Heli Aramo-Immonen, Tampere University of Technology, Finland
Andrea Bikfalvi, University of Girona, Spain
Núria Mancebo, University of Girona, Spain
Hannu Vanharanta, Tampere University of Technology, Finland

Chapter 3
The Determinants of Information Technology Wages .................................................................................................. 32
Jing Quan, Salisbury University, USA
Ronald Dattero, Southwest Missouri State University, USA
Stuart D. Galup, Florida Atlantic University, USA
Kewal Dhariwal, Athabasca University, Canada

Chapter 4
Facades of Attractive Employer in Indian IT Industry: Existing Employee Perspective ................................................. 50
R. Saraswathy, National Institute of Technology, India
N. Thamaraiselvan, National Institute of Technology, India
B. Senthilarasu, National Institute of Technology, India
M. Sivagnanasundaram, National Institute of Technology, India
Chapter 5
Work Practices to Curb Attrition in the Indian Hi-Tech Software Development Industry: A Structurational Analysis
Anuradha Mathrani, Massey University, New Zealand
Sanjay Mathrani, Massey University, New Zealand

Chapter 6
Using People-CMM for Diminishing Resistance to ITIL
Nelson Gama, Instituto Superior Técnico, Portugal & Marinha Portuguesa, Portugal
Raúl Nunes da Silva, Instituto Superior Técnico, Portugal
Miguel Mira da Silva, Instituto Superior Técnico, Portugal

Section 2
Professionals Education and Learning

Chapter 7
Learning in Networks of SMEs: A Case Study in the ICT Industry
Valentina Morandi, University of Brescia, Italy
Francesca Sgobbi, University of Brescia, Italy

Chapter 8
Proposals for Postgraduate Students to Reinforce Information Security Management Inside ITIL®
Elena Ruiz Larrocha, Spanish University for Distance Education, Spain
Jesús M. Minguet, Spanish University for Distance Education, Spain
Gabriel Díaz, Spanish University for Distance Education, Spain
Manuel Castro, Spanish University for Distance Education, Spain
Alfonso Vara, Spanish University for Distance Education, Spain
Sergio Martín, Spanish University for Distance Education, Spain
Elio San Cristobal, Spanish University for Distance Education, Spain

Chapter 9
A Multidisciplinary Problem Based Learning Experience for Telecommunications Students
Carlos Figuera, Rey Juan Carlos University, Spain
Eduardo Morgado, Rey Juan Carlos University, Spain
David Gutiérrez-Pérez, Rey Juan Carlos University, Spain
Felipe Alonso-Atienza, Rey Juan Carlos University, Spain
Eduardo del Arco-Fernández-Cano, Rey Juan Carlos University, Spain
Antonio J. Caamaño, Rey Juan Carlos University, Spain
Javier Ramos-López, Rey Juan Carlos University, Spain
Julio Ramiro-Bargueño, Rey Juan Carlos University, Spain
Jesús Requena-Carrión, Rey Juan Carlos University, Spain
Chapter 10
IT Methods and Techniques Applied to Educational Quality Enhancement ............................................. 140
Kerstin V. Siakas, Alexander Technological Educational Institute of Thessaloniki, Greece
Rita Gevorgyan, State Engineering University of Armenia, Armenia
Elli Georgiadou, Middlesex University, UK

Chapter 11
Problem-Focused Higher Education for Shaping the Knowledge Society ..................................................... 153
Juri Valtanen, University of Tampere, Finland
Eleni Berki, University of Tampere, Finland
Elli Georgiadou, Middlesex University, UK
Margaret Ross, Southampton Solent University, UK
Geoff Staples, British Computer Society, UK

Chapter 12
Engaging the Students in Activity Based Learning for Future Employability ........................................... 169
Margaret Ross, Southampton Solent University, UK
Geoff Staples, Southampton Solent University, UK
Mark Udall, Southampton Solent University, UK

Section 3
IT Professionals in Projects and Organizations

Chapter 13
Trust as an Aspect of Organisational Culture: Its Effects on Knowledge Sharing in Virtual Communities .......................................................... 182
Abel Usoro, University of the West of Scotland, UK
Imran U. Khan, University of the West of Scotland, UK

Chapter 14
Leading Techies: Assessing Project Leadership Styles Most Significantly Related to Software Developer Job Satisfaction .................................................. 200
Steven Westlund, Washington University in Saint Louis, USA

Chapter 15
A Vertical Approach to Knowledge Management: Codification and Personalization in Software Processes .......................................................... 216
Karsten Jahn, Aalborg University, Denmark
Peter Axel Nielsen, Aalborg University, Denmark
Chapter 16
The IP Visualisation Framework for Performance Estimation through the Alignment of Process Maturity and Knowledge Sharing .................................................................228
  Elli Georgiadou, Middlesex University, UK
  Kerstin V. Siakas, Alexander Technological Educational Institution of Thessaloniki, Greece
  Bo Balstrup, Center for Software Innovation, Denmark

Chapter 17
Success Factors for the Management of Global Virtual Teams for Software Development .......... 239
  Javier García Guzmán, Carlos III University of Madrid, Spain
  Javier Saldaña Ramos, Carlos III University of Madrid, Spain
  Antonio Amescua Seco, Carlos III University of Madrid, Spain
  Ana Sanz Esteban, Carlos III University of Madrid, Spain

Chapter 18
Knowledge Base Development in Virtual Enterprise Network as Support for Workplace Risk Assessment .................................................................................................................250
  George Dragoi, Politehnica University of Bucharest, Romania
  Anca Draghi, Politehnica University of Timisoara, Romania
  Sebastian Marius Rosu, Special Telecommunication Service, Romania
  Alexandru Radovici, Politehnica University of Bucharest, Romania
  Costel Emil Cotet, Politehnica University of Bucharest, Romania

Chapter 19
The Effect of Music Listening, Personality, and Prior Knowledge on Mood and Work Performance of Systems Analysts.................................................................266
  Teresa Lesiuk, University of Miami, USA
  Peter Polak, Vrije Universiteit, Netherlands
  Joel Stutz, University of Miami, USA
  Margot Hummer, University of Miami, USA

Chapter 20
Sustainability and Social Responsibility in Raising Awareness of Green Issues through Developing Tertiary Academic Provision: A Case Study ........................................284
  Colin Pattinson, Leeds Metropolitan University, UK
  Denise Oram, Glyndŵr University, UK
  Margaret Ross, Southampton Solent University, UK

Chapter 21
A Framework for the Quality Evaluation of MDWE Methodologies and Information Technology Infrastructures .................................................................295
  Francisco José Dominguez-Mayo, University of Seville, Spain
  María José Escalona, University of Seville, Spain
  Manuel Mejías, University of Seville, Spain
  Isabel Ramos, University of Seville, Spain
  Luis Fernández, University of Alcala, Spain
Chapter 22
Success Factors and Motivators in SPI

Andreas Munk-Madsen, Metodica, Denmark
Peter Axel Nielsen, Aalborg University, Denmark

Compilation of References

About the Contributors

Index