

Table of Contents

Preface.....	xix
--------------	-----

Volume I

Section 1 Fundamental Concepts and Theories

Chapter 1

Holistic View on Unknown Unknowns in Project Risk Management.....	1
<i>Y.G. Raydugin, Risk Services & Solutions Inc., Canada</i>	

Chapter 2

Harnessing Knowledge Power for Competitive Advantage.....	14
<i>Mark E. Nissen, Naval Postgraduate School, USA</i>	

Chapter 3

Systemic Risk Management: A Practice Approach to the Systemic Management of Project Risk.....	29
<i>Steve Raue, The Systemic Excellence Group, Germany</i>	
<i>Louis Klein, The Systemic Excellence Group, Germany</i>	

Chapter 4

Explaining the Firm's De-Internationalization Process by Using Resource-Based View.....	45
<i>Zeynep Sadikoglu, Bogazici University, Turkey</i>	

Chapter 5

Assessment of Strategic Information Systems Planning (SISP) Techniques From Requirement View.....	59
<i>Abdullah M Basahel, King Abdulaziz University, Saudi Arabia</i>	

Chapter 6

Mastering Business Process Management and Business Intelligence in Global Business.....	76
<i>Kijpokin Kasemsap, Suan Sunandha Rajabhat University, Thailand</i>	

Chapter 7	
Financial Risk Management: An Introduction.....	97
<i>Mirela-Madalina Stoian, Technical University of Civil Engineering Bucharest, Romania</i>	
<i>Rares-Gabriel Stoian, Technical University of Civil Engineering Bucharest, Romania</i>	

Section 2
Development and Design Methodologies

Chapter 8	
Opening the Black Box of the Venture Capital-Entrepreneur Relationship: Evidence From a Process Study	110
<i>Olimpia Meglio, University of Sannio, Italy</i>	
<i>Matteo Rossi, University of Sannio, Italy</i>	
<i>Arturo Capasso, University of Sannio, Italy</i>	

Chapter 9	
Public Policies and Public Programs With a Regional Impact in Promoting Entrepreneurship: The Case Study of Government Backed Venture Capital Schemes in the UK	128
<i>Yannis Pierrakis, Kingston University, UK</i>	

Chapter 10	
Strategic Planning in Entrepreneurial Companies: International Experiences	159
<i>Bobek George Suklev, Ss. Cyril and Methodius University in Skopje, Macedonia</i>	
<i>Filip Fidanoski, Ss. Cyril and Methodius University in Skopje, Macedonia</i>	
<i>Kiril Simeonovski, Ministry of Finance, Macedonia</i>	
<i>Vesna Mateska, Famaki-Ve Ltd., Macedonia</i>	
<i>Aleksandra Zlatanaska, Ministry of Labor and Social Policy, Macedonia</i>	

Chapter 11	
Missed Opportunities From Misalignment of Project and Operational Requirements.....	215
<i>Mark F. Jarman, R4Risk, Australia</i>	
<i>Lachlan G. Dreher, R4Risk, Australia</i>	

Chapter 12	
A Step-by-Step Procedural Methodology for Improving an Organization's IT Risk Management System.....	236
<i>Shanmugapriya Loganathan, Excelok Technologies, Singapore</i>	

Chapter 13	
The Management of Knowledge Risks: What Do We Really Know?	258
<i>Susanne Durst, University of Skövde, Sweden</i>	
<i>Guido Bruns, Incipere, Germany</i>	
<i>Thomas Henschel, HTW Berlin, Germany</i>	

Chapter 14

Towards a Business-Driven Process Model for Knowledge Security Risk Management: Making Sense of Knowledge Risks..... 270

Ilona Ilvonen, Tampere University of Technology, Finland

Jari J Jussila, Tampere University of Technology, Finland

Hannu Kärkkäinen, Tampere University of Technology, Finland

Chapter 15

A Comprehensive Literature Review on Construction Project Risk Analysis..... 289

Ermias Tesfaye, Addis Ababa University, Ethiopia

Eshetie Berhan, Addis Ababa University, Ethiopia

Daniel Kitaw, Addis Ababa University, Ethiopia

Chapter 16

Using a Knowledge-Based Approach to Foster the Use of Risk Management in Construction..... 308

Alfredo Federico Serpell, Pontificia Universidad Católica de Chile, Chile

Ximena Ferrada, Pontificia Universidad Católica de Chile, Chile

Larissa Rubio, Pontificia Universidad Católica de Chile, Chile

Chapter 17

Integrating Sustainability Into Project Risk Management 330

Gilbert Silvius, LOI University of Applied Sciences, The Netherlands & University of

Johannesburg, South Africa

Chapter 18

Building a Natural Disaster Risk Index for Supply Chain Operations..... 353

Kun Liao, Central Washington University, USA

Ozden Bayazit, Central Washington University, USA

Fang Wang, Central Washington University, USA

Chapter 19

Reactive and Proactive Dynamic Capabilities: Using the Knowledge Chain Theory of Competitiveness 366

Clyde W. Holsapple, University of Kentucky, USA

Jae-Young Oh, University of Kentucky, USA

Chapter 20

Path Analysis Model for Supply Chain Risk Management..... 386

Satyendra Kumar Sharma, Birla Institute of Technology and Science, India

Anil Bhat, Birla Institute of Technology and Science, India

Vinod Kumar, Carleton University, Canada

Aayushi Agarwal, Tata Consultancy Services, India

Chapter 21

- Towards A Contingency Model for Assessing Strategic Information Systems Planning Success in Medium Enterprises 409
Ray M Kekwaletswe, University of the Witwatersrand, South Africa

Chapter 22

- Risk and Governance Considerations in Cloud Era 439
Mohammad Ali Shalan, Jordan Engineers Association, Jordan

Chapter 23

- Stochastic Processes for the Risk Management 473
Gamze Özel, Hacettepe University, Turkey

Chapter 24

- Ownership, Incentives and Regulation of CCP Risks 489
Louise Carter, Reserve Bank of Australia, Australia
Jennifer Hancock, Reserve Bank of Australia, Australia
Mark Manning, Reserve Bank of Australia, Australia

Chapter 25

- Assets Management and Risk Control 522
María de Lourdes Eguren Martí, Universitat de Barcelona, Spain

Chapter 26

- Project Selection Frameworks and Methodologies for Reducing Risks in Project Portfolio Management 547
Fabio Nonino, Sapienza University of Rome, Italy

Volume II

Chapter 27

- Deriving a Multi-Theoretical Framework for BPS Research 567
Björn Münstermann, University of Bamberg, Germany

Chapter 28

- Trusted Cloud Initiative Reference Architecture 604
Yushi Shen, Microsoft Corporation, USA
Yale Li, Microsoft Corporation, USA
Ling Wu, EMC2 Corporation, USA
Shaofeng Liu, Microsoft Corporation, USA
Qian Wen, Endronic Corp, USA

Section 3 Tools and Technologies

Chapter 29

- Enhancing Organizational Capacity Through the Use of Social Media 623
Rui Sun, California State University – Dominguez Hills, USA
Hugo Asencio, California State University – Dominguez Hills, USA
Julie Reid, California State University – Dominguez Hills, USA & American Lung Association in Arizona, USA

Chapter 30

- The Operational Risk Assessments in Manufacturing Industry 653
Melek Akgün, Sakarya University, Turkey

Chapter 31

- Operational Risk Management in Third Party Logistics (3PL) 676
Diego Fernando Manotas-Duque, Universidad del Valle, Colombia
Juan Carlos Osorio-Gómez, Universidad del Valle, Colombia
Leonardo Rivera, Universidad del Valle, Colombia

Chapter 32

- Strategic Tacit Knowledge-Based Competitiveness..... 699
Khaled Tamzini, Central School of Law and Management, Tunisia

Chapter 33

- Project Risk Management Process for Professionals: A Value-Based Approach 725
Tamas Toth, Budapest University of Technology and Economics, Hungary
Zoltan Sebestyen, Budapest University of Technology and Economics, Hungary

Chapter 34

- Easier Identification of Risks and Uncertainties With Project Risk Constellations 748
Ursula Kopp, University of Applied Sciences Upper Austria, Austria

Chapter 35

- Fuzzy Rules for Risk Assessment and Contingency Estimation Within COCOMO Software
Project Planning Model..... 771
Ekananta Manalif, University of Western Ontario, Canada
Luiiz Fernando Capretz, University of Western Ontario, Canada
Danny Ho, NFA Estimation Inc., Canada

Section 4 Utilization and Applications

Chapter 36

- Risk Management in Agriculture: Production and Technical Risk Management..... 799
Youssef Mohamed Hamada, Agriculture Research Center, Egypt

Chapter 37

Knowledge Sharing and IT/Business Partnership: An Integrated View of Risk Management 834
Dania Abdulwahab Alkhaldi, Arab Academy for Banking and Financial Sciences, Syria

Chapter 38

Enterprise Risk Management in Non-Profit Organization..... 852
Selçuk Bali, Giresun University, Turkey
Yeter Demir Uslu, Giresun University, Turkey

Chapter 39

Supply Chain Management Practices, Competitive Advantage and Organizational Performance: A
Confirmatory Factor Model 871
Rajwinder Singh, International Management Institute Bhubaneswar, India
H.S. Sandhu, CKD Institute of Management and Technology, India
B.A. Metri, International Management Institute New Delhi, India
Rajinder Kaur, Malout Institute of Management and Information Technology, India

Chapter 40

Alignment of Business Strategy and Information Technology Considering Information
Technology Governance, Project Portfolio Control, and Risk Management..... 898
Vincent Kobina Ahene Parry, DeVry University, USA
Mary L Lind, North Carolina A&T State University, USA

Chapter 41

Contemporary Financial Risk Management Perceptions and Practices of Small-Sized Chinese
Businesses 917
Simon S. Gao, Edinburgh Napier University, Scotland
Serge Oreal, ESC Rennes School of Business, France
Jane Zhang, Edinburgh Napier University, Scotland

Chapter 42

Using Strategic Planning to Improve Performance Management and Its Impact on Organizational
Success: A Study of Private Sector in Iran 932
Ahmad Ali Mohassesi, Iranian Investment Petrochemical Group Co. (IIPGC), Iran
Rozita Shahbaz Keshvari, Islamic Azad University, Tehran, Iran

Chapter 43

Implementing Risk Management Processes Into a Cloud Computing Environment..... 951
Samer Alhawari, The World Islamic Sciences and Education University, Amman, Jordan
Mufleh Amin AL Jarrah, Amman Arab University, Amman, Jordan
Wa'el Hadi, University of Petra, Amman, Jordan

Chapter 44

An Analytical Study of Methodologies and Tools for Enterprise Information Security Risk Management..... 964

Jaya Bhattacharjee, Jadavpur University, India

Anirban Sengupta, Jadavpur University, India

Mridul Sankar Barik, Jadavpur University, India

Chandan Mazumdar, Jadavpur University, India

Chapter 45

Considering Middle Circles in Mobile Cloud Computing: Ethics and Risk Governance 980

Mohammad Ali Shalan, University of Jordan, Jordan

Chapter 46

Islamic Finance in India: Financial Regulations Challenges and Possible Solutions..... 1003

Wasiullah Shaik Mohammed, B. S. Abdur Rahman University, India

Abdur Raqeeb H, Indian Center for Islamic Finance, India

Khalid Waheed, B. S. Abdur Rahman University, India

Chapter 47

Strategic Planning, Cultural Context, and Business Continuity Management: Business Cases in the City of Shkoder 1027

Mirko Perano, Reald University of Vlore (ASAR), Albania

Xhimi Hysa, Epoka University, Albania

Mario Calabrese, Sapienza University of Rome, Italy

Chapter 48

Strategic Information System Planning in Healthcare Organizations..... 1048

Theresa Lee, University of Toronto, Canada

Amir Hossein Ghapanchi, Griffith University, Australia & Institute for Integrated and Intelligent Systems, Australia

Amir Talaei-Khoei, University of Technology Sydney, Australia

Pradeep Ray, Asia Pacific ubiquitous Healthcare Research Centre (APuHC), UNSW, Australia

Chapter 49

The Role of Information System Within Enterprise Architecture and Their Impact on Business Performance 1078

Kijpokin Kasemsap, Suan Sunandha Rajabhat University, Thailand

Chapter 50

Towards a Model of Sustainability Capabilities and Competitive Advantage: Empirical Evidence From India..... 1103

Santanu Mandal, ICAI Business School (IBS), India

Chapter 51

Competitive Advantage and Automated Sharing of Tacit Knowledge 1122

Michael A. Chilton, Kansas State University, USA

James M. Bloodgood, Kansas State University, USA

Chapter 52

Swimming Upstream in Turbulent Waters: Auditing Agile Development 1134

Priyadarsini Kannan Krishnamachariar, State University of New York, Buffalo, USA

Manish Gupta, State University of New York, Buffalo, USA

Volume III

Chapter 53

Supply Risk Management Process: Modeling Enablers to Develop a Structural Framework 1160

Kunal K. Ganguly, Indian Institute of Management, Kashipur, India

Prabir Bandyopdhyay, Goa Institute of Management, Goa, India

Chapter 54

E-Banking in India: Risk Management in Payments and Settlement System..... 1176

Rituparna Das, National Law University Jodhpur, India

Chapter 55

The Roles of Information Technology and Knowledge Management in Project Management

Metrics 1191

Kijpokin Kasemsap, Suan Sunandha Rajabhat University, Thailand

Chapter 56

Applying Enterprise Risk Management on a Fiber Board Manufacturing Industrial Case 1222

Syed Aftab Hayat, Maryville University, USA

Section 5

Organizational and Social Implications

Chapter 57

Improving Objectivity in Project Risk Management 1241

Kailan Shang, Swin Solutions Inc., Canada

Chapter 58

An Empirical Take on Qualitative and Quantitative Risk Factors..... 1259

K. Madhu Kishore Raghunath, National Institute of Technology, Warangal, India

S. Lakshmi Tulasi Devi, National Institute of Technology, Warangal, India

Chandra Sekhar Patro, Gayatri Vidya Parishad College of Engineering, India

Chapter 59

Overcoming the Barriers of Strategic Planning, Implementation, and Monitoring in Turbulent Business Environment: A Qualitative Study on Finnish SMEs..... 1276

Binod Timilsina, University of Vaasa, Finland

Chapter 60

The Rigorous Security Risk Management Model: State of the Art..... 1299

Neila Rjaibi, Institut Supérieur de Gestion de Tunis (ISG), Tunisia

Latifa Ben Arfa Rabai, Institut Supérieur de Gestion de Tunis (ISG), Tunisia

Chapter 61

Challenge or Potential? Risk Identification in the Context of Sustainable Development: A Case Study 1318

Martina Huemann, WU-Vienna University of Economics and Business, Austria

Claudia Ringhofer, WU-Vienna University of Economics and Business, Austria

Chapter 62

Technique for Risk Identification of Software Acquisition and Information Technologies 1337

Gloria Piedad Gasca-Hurtado, Universidad de Medellín, Colombia

Jaime Alberto Echeverri Arias, Universidad de Medellín, Colombia

María Clara Gómez, Universidad de Medellín, Colombia

Chapter 63

The Relationships Among Environmental Turbulence and Socio-Technical Risk Factors Affecting Project Risks and Performance in NPD Project Teams 1353

Jengchung Victor Chen, National Cheng Kung University, Taiwan

Andree E. Widjaja, Pelita Harapan University, Indonesia

Bianca Chen, National Cheng Kung University, Taiwan

Chapter 64

Sustainable Competitive Advantage in Turbulent Business Environments Using Critical Organizational Capabilities and Resources to Manage Complexity..... 1374

Yannis A. Pollalis, University of Piraeus, Greece

Section 6 Managerial Impact

Chapter 65

Managing Enterprise IT Risks Through Automated Security Metrics..... 1395

Aristeidis Chatzipoulidis, University of Macedonia, Greece

Dimitrios Michalopoulos, University of Macedonia, Greece

Ioannis Mavridis, University of Macedonia, Greece

Chapter 66

Sustainability, Risk, and Business Intelligence in Supply Chains 1424

Merve Er Kara, Marmara University, Turkey

Seniye Ümit Oktay Fırat, Marmara University, Turkey

Chapter 67

Integration of Project Risk Management (PRM) into Enterprise Risk Management (ERM)..... 1462

Ruchi Agarwal, University of Edinburgh Business School, UK

Lev Virine, Intaver Institute, Canada

Chapter 68

The Effective Approach of Managing Risk in New Product Development (NPD) 1486

Brian J. Galli, Long Island University, USA

Chapter 69

Risk and Visibility in Supply Chains: An Information Management Perspective..... 1501

Dario Messina, University of Porto, Portugal & INESC TEC, Portugal

Cláudio Santos, INESC TEC, Portugal

António Lucas Soares, University of Porto, Portugal & INESC TEC, Portugal

Ana Cristina Barros, INESC TEC, Portugal

Chapter 70

Project and Risk Management in a Global Context: The Importance of Cultural Risk 1525

Mirko Perano, Reald University of Vlore (ASAR), Albania

Bice Della Piana, University of Salerno, Italy

Gian Luca Casali, Queensland University of Technology, Australia

Chapter 71

Project Portfolio Risk Management: Managing Risk in Case of Investment Portfolio 1549

Nicolae Postăvaru, Technical University of Civil Engineering of Bucharest, Romania

Bogdan Leonte, Technical University of Civil Engineering of Bucharest, Romania

Chapter 72

Linking Organization's Strategy and Strategic Planning With Portfolio Management 1571

Alfonso Bucero, Bucero, Spain

Chapter 73

Management of Risk and Resilience Within Collaborative Business Network..... 1591

Ahm Shamsuzzoha, Sultan Qaboos University, Oman

Chapter 74

Educating Project Managers to Deal With Project Risks: Improvement of the Educational Programmes Design by Using Curriculum Management Systems..... 1606

Radu-Ioan Mogos, Bucharest University of Economic Studies, Romania

Constanta-Nicoleta Bodea, Bucharest University of Economic Studies, Centre for Industrial and Services Economics, Romania

Stelian Stancu, Bucharest University of Economic Studies, Centre for Industrial and Services Economics, Romania

Augustin Purnus, Technical University of Civil Engineering Bucharest, Romania

Maria-Iuliana Dascalu, University Politehnica of Bucharest, Romania

Chapter 75

Management of Risks in Sustainable Supply Chain Using AHP and Monte Carlo Simulation..... 1633

Sunil Luthra, Government Engineering College Nilokheri, India

Sachin Kumar Mangla, Graphic Era University, India

V. G. Venkatesh, The University of Waikato, New Zealand

Suresh Kumar Jakhar, Indian Institute of Management Lucknow, India

Section 7 Emerging Trends

Chapter 76

Influence of Star Bioscientists on Obtaining Venture Capital for Canadian Dedicated

Biotechnology Firms..... 1654

Johanne Queenton, University of Sherbrooke, Canada

Sophie Veilleux, Laval University, Canada

Chapter 77

Migration Goals and Risk Management in Cloud Computing: A Review of State of the Art and

Survey Results on Practitioners 1671

Shareeful Islam, University of East London, UK

Stefan Fenz, SBA Research gGmbH, Austria

Edgar Weippl, SBA Research gGmbH, Austria

Christos Kalloniatis, University of the Aegean, Greece

Chapter 78

Protection of Critical Homeland Assets: Using a Proactive, Adaptive Security Management

Driven Process 1705

William J. Bailey, Edith Cowan University, Australia

Chapter 79

Coping Better With the Project's Unknown Unknowns: New Competences for Overcoming

Uncertainty in Projects..... 1739

Yvonne-Gabriele Schoper, HTW Berlin, Germany

Fritz Böhle, ISF München, Germany

Eckhard Heidling, ISF München, Germany

Index..... xxii