The Cross-Disciplinary Perspectives of Management

CROSS-DISCIPLINARY MANAGEMENT PERSPECTIVES: APPLICATIONS, CHALLENGES AND OPPORTUNITIES

Edited by Yaakov Weber, Demetris Vrontis, Evangelos Tsoukatos and S. M. Riad Shams

Cross-Disciplinary Management Perspectives presents a diverse range of cross-disciplinary insights from different business and management disciplines to offer new theoretical and practical perspectives and advances on key conceptual themes and issues in the management subject area. By extending scholarly understanding on how different business disciplines explore opportunities and minimize potential risks, the contributions to each title in the series will collectively offer diverse contemporary insights from an interdisciplinary business knowledge base. Each volume in the series is based on selected papers from the EuroMed Academy of Business Annual Conference Proceedings.

The Cross-Disciplinary Perspectives of Management: Challenges and Opportunities

EDITED BY

YAAKOV WEBER

College of Management, Israel

DEMETRIS VRONTIS

University of Nicosia, Cyprus

EVANGELOS TSOUKATOS

Technological Education Institute of Crete, Greece

S. M. RIAD SHAMS

Northumbria University, UK



Emerald Publishing Limited Howard House, Wagon Lane, Bingley BD16 1WA, UK

First edition 2020

Copyright © 2020 Emerald Publishing Limited

Reprints and permissions service

Contact: permissions@emeraldinsight.com

No part of this book may be reproduced, stored in a retrieval system, transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise without either the prior written permission of the publisher or a licence permitting restricted copying issued in the UK by The Copyright Licensing Agency and in the USA by The Copyright Clearance Center. Any opinions expressed in the chapters are those of the authors. Whilst Emerald makes every effort to ensure the quality and accuracy of its content, Emerald makes no representation implied or otherwise, as to the chapters' suitability and application and disclaims any warranties, express or implied, to their use.

British Library Cataloguing in Publication Data

A catalogue record for this book is available from the British Library

ISBN: 978-1-83867-250-8 (Print) ISBN: 978-1-83867-249-2 (Online) ISBN: 978-1-83867-251-5 (Epub)



ISOQAR certified Management System, awarded to Emerald for adherence to Environmental standard ISO 14001:2004.

Certificate Number 1985 ISO 14001



Contents

About the Editors	VII
About the Contributors	ix
List of Contributors	xiii
Introduction	
Yaakov Weber, Demetris Vrontis, Evangelos Tsoukatos and S. M. Riad Shams	1
Chapter 1 "Are We There Yet?" Mind-Genomics and Data-Driven Personalized Health Plans	7
Gillie Gabay and Howard R. Moskowitz	7
Chapter 2 Mergers and Acquisitions: Exploitation and Exploration	
Yaakov Weber	29
Chapter 3 Intellectual Capital and Enabling Factors for Startups in a Business Ecosystem	
Daniela Rupo, Patrizia Accordino, Elvira Tiziana La Rocca and Tindara Abbate	39
Chapter 4 SMEs and Globalization	
Ilan Bijaoui	55
Chapter 5 Can a High Women Quota in Supervisory Boards Influence Enterprise Success?	
Bettina C.K. Binder	71
Chapter 6 Implementation of Female Mentoring Programs in German Companies: Still Some Way To Go	
Véronique Goehlich, Briony Gilbertson and Kerstin Bremser	83

Chapter 7 Impact of Corporate R&D on Efficiency in	
OECD Industries	
Maria José Palma Lampreia Dos-Santos and Henrique Diz	97
Chapter 8 A Study of the Olive Oil Consumption and	
Economic Sector in the Iberian Peninsula	
Carla Lousas, Humberto Ribeiro, Sandra Alves and	
Cláudia Veloso	111
Chapter 9 E-marketing and Strategy by Energy Companies	
Felicetta Iovino and Guido Migliaccio	135
Chapter 10 The Effects of Pay Dispersion Between Executives and Employees of an Organization on Firm Performance: Evidence from Turkey	
Aylin Ataay	153
Chapter 11 Genuine Emotions When Facing Aggressive Customers in the Hospitality Industry: A Conceptual Framework	
Aspasia Simillidou, Demetris Vrontis and Michael Christofi	165
Chapter 12 A Retrospective and Prospective Analysis in the Health Management through Applied Innovation	
Larisa Mihoreanu	181
Index	203
	200

About the Editors

Yaakov Weber is full Professor in the School of Business Administration at the College of Management Academic Studies, Israel. His publications in various journals, such as Strategic Management Journal, Management Science, Human Relations, Journal of Management, California Management Review, Journal of Business Research, Journal of Human Resource Management Review, Human Relations, Human Resource Management, and more, received about 6,000 citations. He got prestige academic awards on his work. His recent book was invited and published by the leading international financial newspaper, Financial Times. He serves in various editorial positions for leading journals. Yaakov is consultant to international and very large organizations. He also the Founder and President of the EuroMed Research Business Institute and the EuroMed Academy of Business.

Demetris Vrontis is a Professor and Executive Dean at the University of Nicosia in Cyprus. He is the Founder and Editor-in-Chief of the *EuroMed Journal of Business* and the President of the EuroMed Research Business Institute. He has widely published in over 200 refereed journal articles, 25 chapters and cases in books/edited books, and presented papers to over 70 conferences at a global basis. Professor Vrontis is also the author of 30 books in the areas of business management, marketing, human resource management, innovation, and entrepreneurship. He is a fellow member and certified Chartered Marketer of the Chartered Institute of Marketing and a Chartered Business and Chartered Marketing Consultant. He also serves as a consultant and member of board of directors to a number of international companies. Further details about Professor Vrontis can be found at http://unic.academia.edu/DemetrisVrontis

Evangelos Tsoukatos is Associate Professor of Management at the University of Applied Sciences, Crete, Greece, and Adjunct Faculty at the University of Nicosia, Cyprus, and the Hellenic Open University. He earned a BSc in Mathematics from the "Aristotelion" University of Thessaloniki, Greece, a Postgraduate Diploma, and MSc in Operational Research from Lancaster University Management School, UK, where from he also earned his PhD in Management. He is Associate Editor of the *Euro Med Journal of Business* and editorial board member in a number of international scholarly journals. His research interests are in Services Management, Quality Management, Cross-cultural Management and Entrepreneurship. He holds the position of Vice President – Operations and

viii About the Editors

Development at the EuroMed Research Business Institute. For his published research, he has gained wide recognition from his peers. Further information is available at https://www.researchgate.net/profile/Evangelos_Tsoukatos

S. M. Riad Shams is a Lecturer in Marketing at the Northumbria University, UK. He has completed his doctoral research from the Central Queensland University, Australia. His MBA and BBA (Honours in Marketing) have been awarded by the University of Dhaka, Bangladesh. He has published and guest edited in various reputed journals, namely, the *Journal of International Management*, *Journal of Business Research*, *International Marketing Review*, and so forth. He is the Leadeditor of the *Annals of Business Research* and the Founding Editor of the *International Journal of Big Data Management*, and has been serving as track-chair in the leading international academic conferences.

About the Contributors

Tindara Abbate, PhD, is Associate Professor of Business Economics and Management at the University of Messina (Italy). She has been involved in several research projects, as member and scientific coordinator. She is author of several contributions published in national/international journals.

Patrizia Accordino, PhD, is Assistant Professor of Tax Law at the University of Messina. She was Barrister and Official Receiver. Her academic qualifications are a Master's degree and a Postdoctoral Fellowship in Tax Law, and recently the national academic qualification as Associated Professor. She is author of three books and many journal articles.

Sandra Alves is Professor at Polytechnic Institute of Leiria, Portugal. Her academic and professional qualifications are Doctorate in Business Sciences from the Faculty of Economics of the University of Porto; Master in Accounting and Auditing, Open University; Degree in Business Management, College of Accounting and Administration of Coimbra; and Chartered Accountant (OCC, Portuguese Chartered Accountants Association).

Aylin Ataay is Professor of Management at Galatasaray University, Istanbul. She received her PhD in Management from the IAE – Paris 1 Panthéon – Sorbonne University and Istanbul University. Her recent research interests are in the areas of boards and governance and top management teams, with a specific focus on top managers' succession and compensation.

Ilan Bijaoui is Senior Lecturer at Bar-Ilan University, Israel, teaching courses across marketing, international business, and technology policy. He is also a Trainer and a Consultant for international businesses on project management and monitoring process. He has written numerous articles in business, marketing, and economic journals and is the author of the books, *The Economic Reconciliation Process, The Open Incubator Model, SMEs in an Era of Globalization, Multinational Investment & Development in Africa, and Immigrant Innovators.*

Bettina C. K. Binder is Professor of Business Administration and Engineering at Pforzheim University of Applied Sciences in Pforzheim, Germany. Bettina has been involved in teaching sessions in Managerial Accounting, Strategic and Process Management. Prior to this she worked 10 years in Consultancy and 4 years as CFO in the Automotive Supplier Industry. She published numerous articles in national and international journals about Key Performance Indicators (KPIs).

A special research topic for her is the KPI women quota in management and supervisory boards.

Kerstin Bremser has been Professor of International Business at the Pforzheim University of Applied Sciences since 2008. Prior to this, she worked in different marketing and consulting companies. Kerstin has been involved in teaching and research related to strategic issues in the tourism industry and cross-cultural topics.

Michael Christofi is a Senior Research Fellow in Marketing Strategy and Innovation at the University of Nicosia in Cyprus, having previously served from various R&D, sales, and marketing positions within large organizations. He has published his work in premier marketing and management journals such as the *Journal of Business Research*, *International Marketing Review*, *Journal of Services Marketing*, and *Marketing Intelligence & Planning*, among others.

Henrique Diz is full Emeritus Professor from University of Aveiro. He has experience as a Dean of various faculties and research hubs. He is a very successful researcher with more than 150 referred publications and projects among various countries.

Maria José Palma Lampreia Dos-Santos is Assistant Professor and Researcher at ISCTE-Institute University of Lisbon – DINÂMIA'CET. She is a Portuguese Delegate from two COST Actions from European Commission and Member of Editorial Board and Editor-in-Chief of two scientific journals. She also is Coordinating Leader Author of the 1st MedECC Assessment Report (MARI) from MEDECC.

Gillie Gabay is a Senior Lecturer at the College of Management Academic Studies, and a member of the School of Behavioral Sciences and Psychology. She is the author of three books, scientific articles, and book chapters in the field of health psychology. Dr Gabay serves as a Reviewer at the Advances in Healthcare Management Journal (Emerald), INHP Israel, QMJ, International Journal of Medicine, Qualitative Health Research, and PLOS One.

Briony Gilbertson has been working as a Global Mobility Manager in the mechanical engineering sector since 2015. In 2013, she graduated in International Business (BSc) at Pforzheim University of Applied Sciences and continued with a Master's degree in Human Resources Management (MA) at Regensburg University of Applied Sciences from which she graduated in 2015.

Véronique Goehlich has been Professor of International Business at the Pforzheim University of Applied Sciences since 2010. Prior to this, she worked in international sales and general management in German, US, and French companies. Veronique has been involved in teaching and research related to mobility, gender issues, and cross-cultural topics.

Felicetta Iovino is Fellow of Business Administration and Accounting at the University of Sannio. She has a PhD in Public Sector Management (2008) from the University of Salerno. She has written articles about energy companies, tourism, and SEZs, published in international and peer-reviewed journals.

Elvira Tiziana La Rocca, PhD, is Assistant Professor in Management at the University of Messina (Italy), where she teaches "International Marketing" and "Corporate Governance." Her research interests concern international management, corporate governance, and firm value. She is author and co-author of many contributions published in international and Italian journals.

Carla Lousas is from Mogadouro, Bragança, Portugal. She has a Master degree in Organizational Management – Business Management, College of Technology and Management (ESTiG), Polytechnic Institute of Bragança (IPB), Portugal. She holds an undergraduate degree in Management and another in Accounting, from ESTiG-IPB. She is a Chartered Accountant (OCC, Portuguese Chartered Accountants Association), a Corporate Advisor and a Consultant.

Guido Migliaccio is Associate Professor of Business Administration and Accounting at the University of Sannio, Italy. He has a PhD in Public Sector Management (2007) and another PhD in Marketing and Communication (2010). He has reported in numerous national and international conferences. He has written many books and articles.

Larisa Mihoreanu, PhD, studied and taught bio-medical and economic sciences in prestigious European universities and co-authors 41 papers cited in outstanding journals. She held the Health Technology Assessment expert position, accredited by the Permanent Representation of Romania to the EU as member of the Pharmaceutical Products and Medical Devices WG of the EU Council during the first Romanian Presidency of the EU.

Howard R. Moskowitz founded Mind Genomics Associates in 2014 to promote the development and use of the new science of Mind Genomics. The science creates an archival and action-oriented database for knowledge about how people think about the aspects of their daily life. The science is used in business to drive 1:1 sales and marketing, and in social research to understand what is important, and what should be communicated to citizens of a country for socially relevant issues.

Humberto Ribeiro is Professor at University of Aveiro, ESTGA and Researcher at GOVCOPP, Portugal. He has a PhD in Business and Management Research, Leicester Business School, DMU, UK, MPhil in Quantitative Methods Applied to Economy, Santiago de Compostela, Spain, Masters' in Accounting and Corporate Finance, and Graduate in Economics. He is Certified Economist and Chartered Accountant.

Daniela Rupo, PhD, is Associate Professor in Business Administration and Accounting at the University of Messina (Italy). Her research interests include corporate social responsibility disclosure, intellectual capital, business valuation, and public sector accounting. She is author/co-author of several books and articles, published by national and international editors.

Aspasia Simillidou is a Lecturer in Business Management and Hospitality and Tourism and the Course Leader of the MA course in Hospitality and Tourism at UCLan Cyprus. She has previously served as a Trainer and a Business Consultant

in various organizations in a number of sectors both in Cyprus and abroad for 10 years. Her research spans across the field of emotional labor, emotional intelligence, organizational psychology, and emotions in the hospitality industry. She has published in a number of books and academic journals.

Cláudia Veloso is Professor at University of Aveiro, ESTGA, and College of Technology and Management, Polytechnic Institute of Bragança, Portugal. She is a Researcher at GOVCOPP. She has a Doctorate in Social Sciences in the areas of Economics and Management from the University of Salamanca, Spain and Graduate in Management, ISEG, University of Lisbon, Portugal.

Demetris Vrontis is a Professor of Marketing, Executive Dean, and Director at the University of Nicosia in Cyprus, the Editor-in-Chief of the *EuroMed Journal of Business*, and the President of the EuroMed Research Business Institute. He has published over 120 refereed articles and 21 books, and gave numerous presentations in conferences around the globe.

Yaakov Weber is a Professor in the School of Business Administration at the College of Management Academic Studies, Israel. His publications received more than 5,000 citations. Having served in various editorial positions for leading journals, Yaakov is the Founder and President of the EuroMed Research Business Institute and the EuroMed Academy of Business.

List of Contributors

Tindara Abbate Department of Economics, University of Messina,

Italy

Patrizia Accordino Department of Political and Juridical Sciences,

University of Messina, Italy

Sandra Alves High School of Technology and Management,

Polytechnic Institute of Leiria, Portugal

Aylin Ataay Galatasaray University, Istanbul, Turkey Ilan Bijaoui Bar Ilan University, Ramat Gan, Israel

Bettina C.K. Binder School of Engineering, Pforzheim University of

Applied Sciences, Pforzheim, Germany

Kerstin Bremser International Business, Pforzheim University of

Applied Sciences, Germany

Michael Christofi University of Nicosia, Cyprus

Henrique Diz Faculty of Economics, University of Aveiro,

Portugal

Maria José Palma Lampreia Dos-Santos University of Lisbon, Portugal

Gillie Gabay College of Management Academic Studies, Israel
Briony Gilbertson Alumni International Business, Pforzheim Univer-

sity of Applied Sciences, Germany

Véronique Goehlich International Business, Pforzheim University of

Applied Sciences, Germany

Felicetta Iovino University of Sannio, Italy

Elvira Tiziana La Rocca Department of Economics, University of Messina,

Italy

Carla Lousas High School of Technology and Management,

Polytechnic Institute of Bragança, Portugal

Guido Migliaccio University of Sannio, Italy

Larisa Mihoreanu Titu Maiorescu University, Bucharest, Romania Howard R. Moskowitz Founding Partner & Chief Scientist, Mind Genom-

ics Advisors, LLC and President, Mind Genomics

Associates, Inc., Israel

Humberto Ribeiro Águeda School of Technology and Management,

University of Aveiro, Portugal

Daniela Rupo Department of Economics, University of Messina,

Italy

xiv List of Contributors

Aspasia Simillidou School of Business and Management, UCLan

Cyprus, Cyprus

Cláudia Veloso Águeda School of Technology and Management,

University of Aveiro, Portugal

Demetris Vrontis University of Nicosia, Cyprus

Yaakov Weber College of Management, EuroMed Research

Business Institute

Introduction

Yaakov Weber, Demetris Vrontis, Evangelos Tsoukatos and S. M. Riad Shams

This book is the first volume in the series named *Cross-Disciplinary Management Perspectives: Applications, Challenges and Opportunities.* The term cross-disciplinary research (CDR) refers to scientific practice that goes beyond one specific disciplinary boundary. It often refers to research that integrates theories, concepts, perspectives, information, and/or data from two or more scientific disciplines. Such research aims to explore and resolve some complex theoretical problems in the state of the art of one or more area of academic research. This scientific practice has potential to generate innovative research results and make an important impact on the literature of one or more disciplines.

Yet, to a surprising extent, existing bodies of literature in many fields focus on single discipline and seem to exist in a state of splendid isolation. Crossing to other discipline areas may be difficult to pursue and may be risky for researcher career. This is because many journals lack peer reviewers who are able to understand multiple disciplines. Thus, the review process for articles that combine several disciplines may have experts in specific discipline that may not understand the other discipline in the same article. Furthermore, those experts that are familiar with their traditional disciplines may devalue interdisciplinary work that is out of their disciplines. All these increase the difficulty of publishing interdisciplinary papers even though such studies solve problems in many fields without adequate explanations to some phenomenon in their discipline.

Nevertheless, the high potential to solve current theoretical or empirical problems that has confused other researchers motivates few scholars to try a new integrative theory that may be elegant and rich. Good theory integration can make high impact on the literature. Consider the development of behavioral economic field where economic researchers had the curiosity about the new findings about decision-making behavior in psychology discipline. These two disciplines provided conflicting explanations to people behavior as a result of different underlying assumptions. While scholars at the field of economy assume that people mostly act by following rational decisions, and if not, it is due to some feelings such as fear, hate, and affection, Kahneman (Nobel prize winner) and Tversy described, in many studies, other intuitive processes that are employed during decision-making that lead to systematic and predictable errors.

We contend that CDR is a potential way for scholars to advance their field and offer new insights that may help to solve a phenomenon-based problem, to develop knowledge, or when unexpected recurring pattern of findings appears in the literature, etc. For example, mergers and acquisitions (M&A) performance was studied by two different streams of management research with no consistent findings or specific conclusions about the main reasons for M&A success or failure. One stream studied the relationship between M&A performance and the strategic fit of the selling and buying firms. These studies hypothesized, but failed to find, a consistent relationship between performance and the degree of strategic fit at the M&A of their samples. Interestingly, the findings reveal large variance in the performance if M&A? with similar strategic fit, but have not given explanations for the large within-group variance. Another stream of research explored, conceptually and theoretically, possible relationship between culture fit of the buying and selling firms and M&A success by focus on its impact on employee motivation and attitude. Yet, these relationships remain without crystallize theory about the phenomenon.

In fact, in some reviews of the field Weber and his colleagues (e.g., Weber, 2010; Weber & Fried, 2011 Weber & Tarba, 2014) found that the major drawback of the M&A literature is that, while the M&A is a multileveled, multistage and multidisciplinary phenomenon, much of the research tends to be conducted at a single level (e.g., macro or micro), in a single stage (e.g., pre- or post-merger) and in single disciplinary (e.g., strategic management, or organizational behavior). No wonder that empirical findings were confusing, not consistent, and in many cases were contradictory.

Due to no adequate explanation for the observations and occurrences in the existing management theory that were described previously, Weber, 1996; Weber & Tarba, 2010, 2013, 2014; Weber, Tarba, & Oberg, 2014) sought answers in theoretical perspectives of other disciplines, such as anthropology, psychology (e.g., Weber & Schweiger, 1992) and international management (e.g., Weber, Shenkar, & Raveh, 1996). This helped, first, to crystalize thinking about the effects of cultural differences on people behavior phenomenon in M&A such as stress and negative attitudes of managers at the acquired firm, as well as commitment and cooperation of the acquired managers with the buying firm management, and second, to integrate theory from those outside disciplines in order to offer new way of seeing the phenomenon of variation in M&A performance.

By borrowing theories from the other disciplines and import them to their own disciplinary literature Weber and colleagues were able to perform theory integration that helps better understanding of the phenomenon in M&A. The "borrowing" concept was applied in their empirical studies to explore the relationships and knowledge flows between the scientific disciplines. In particular, it helps to demonstrate how the underlying concepts and methodologies of the culture and strategic fit streams (Chatterjee, Lubatkin, Schweiger, & Weber, 1992; Lubatkin, Schweiger, & Weber, 1999), when combined, make an important contribution toward understanding the M&A performance.

Our aim in this book, as well as in this series, is to advance scientific knowledge based on theories in other disciplines when there is curiosity about inconsistent or contradictory findings, or to solve a phenomenon-based problem that confused scholars. Thus, this book's objective is to offer insights and examples of CDR for those who want to engage in CDR especially when researchers look for solving a puzzlement in the management and business administration literature where no good explanations exist and when they seek to offer an innovative and creative way of seeing an existing issue or phenomenon.

To this aim this first volume brings together an eclectic range of work that offers new insights for scholars in various disciplines. For example, it can be seen in the following chapters that prior investigations in many fields have not simultaneously embedded people into organizations and organizations into environmental contexts. Furthermore, while sharing some basic definitions and terminology, authors writing about various phenomena in their traditional discipline, by and large, have refrained from stepping into each other's turf, thereby missing out on opportunities for cross-fertilization. As was previously indicated the intent of this series is to encourage scholars to take a step forward and engage in CDR.

The first chapter of this book is a research that responds to the public expectations for high-quality healthcare for a new, more profound, and more actionable understanding of the healthy customer's mind regarding health-promoting behaviors. Gabay and Moskowitz use a Mind-Genomics that may become the next big idea of health services. Their research looks at the relation between Mind-Genomics and data-driven personalized health plans. Some of the findings are reported in this chapter.

The second chapter by Weber focuses on the paradox about the ongoing long phenomenon of increasing activity of both cross-border and domestic M&A versus their poor performance. He borrows concept from organizational ambidexterity stream of research to explore how different characteristics of M&A relate to different M&A implementation approaches. This helps him to provide various propositions that have the potential to foster future research directions.

In the third chapter, Rupo, Accordino, La Rocca, and Abbate use the new concept of business ecosystem that consists of several factors from different fields that influence the success of any business with focus on start-ups. They develop a theoretical model that combines different fields of research that include government considerations, educational institution, with the individual entrepreneur traits that include motivation, problem-solving agility, and other "soft" competencies. They provide propositions that may foster future research.

The fourth chapter by Bijaoui uses different models developed in international business and the international experience of small- and medium-sized enterprises (SMEs) to propose efficient ways of confronting globalization. Analyzing case studies that illustrate models of globalization, this chapter offers some proposals to help the SMEs in selecting a relevant international business strategy over time.

The next two chapters deal with gender diversity in managerial levels with theories from different disciplines and with different data sets that represent their different field theories and different organizational levels. Binder's chapter offers an insight into the relationship between the economic success of 50 European companies and the gender balance on supervisory boards. For this purpose her study builds upon literature in the fields of KPIs diversity management, supervisory

boards, and women quota. On the other hand, Goehlich, Gibertson, and Bremser combine macro- and micro-levels through the issue of corporate governance structure and the mentoring of women at German companies. Such mentoring can improve gender diversity at higher level of corporations with the potential of improving companies' performance in future.

In the following chapter, Dos-Santos and Diz present a study and data that combine several levels of investigation and several disciplines that include economy and strategy inquiry into Research & Development investments and impact. They collected data from several countries several industries, and several levels of high-tech industries. The main results of their study highlight the impact of corporate R&D strategy on productivity of high-tech industries and the need for a policy and decision-makers to allocate public funds for R&D in high-tech industries, while the investment in capital seems crucial particularly in low-tech industries in order to improve productivity.

Next, Lousas, Ribeiro, Alves, and Veloso's chapter presents a study of the olive oil consumption and economic sector in Portugal and Spain. This is done by the examination of various areas of interest from production to retail and consumption.

The chapter by Iovino and Migliaccio focuses on e-marketing and strategy by energy companies. This chapter shows how e-marketing and e-strategy constitute tools for a public service such as energy priority that helps to achieve the objectives of liberalization and privatization.

The next chapter by Ataay, based on data from Turkey, investigates the effects of pay dispersion between executives and employees of an organization on the firm performance. The study focuses on vertical pay dispersion, which reflects intra-firm and vertical differences between pay at two important hierarchical levels, namely combining top executive level and lower hierarchical level.

The Simillidou, Vrontis, and Christofi's chapter combines different research areas. One area investigated is the behavior of employees in their organization while another area is stakeholders that are out of the organization, namely customer behavior. They develop a framework for the scholar community and management practice in the hospitality industry and propose various avenues for further research.

The chapter by Larisa Mihoreanu seals this volume by providing directions of actions to strengthen medical reputation and care partnering. It suggests complex analyses of composite indicators from various disciplines that facilitate the ranking of their achievements from financial and medical point of view.

Bibliography

Chatterjee, S., Lubatkin, M. H., Schweiger, D. M., & Weber, Y. (1992). Cultural differences and shareholders value: Explaining the variability in the performance of related mergers. *Strategic Management Journal*, 13, 319–334.

Lubatkin, M., Schweiger, D., & Weber, Y. (1999). Top management turnover, following mergers: A longitudinal study of perceptual and attitudinal determinants. *Journal of Management*, 49(9), 1181–1202.

- Weber, Y. (1996). Corporate culture fit and performance in mergers and acquisitions. Human Relations, 49(9), 1181-1202.
- Weber, Y., & Pliskin, N. (1996). The effect of information systems integration and organizational culture on a firm's effectiveness. Information and Management, 30, 81–90.
- Weber Y., & Schweiger, D. (1992). Top management culture conflict in mergers and acquisitions: A lesson from anthropology. International Journal of Conflict Management, *3*(4), 285–302.
- Weber, Y., Shenkar, O., & Raveh, A. (1996). National and corporate culture fit in mergers/ acquisitions: an exploratory study. Management Science, 42(8), 1215-1227.
- Weber, Y. Tarba, S., & Reichal, A. (2011). A model of the influence of culture on integration approaches and international mergers and acquisitions performance. International Studies of Management and Organizations, 41(3), 9-24.



Chapter 1

"Are We There Yet?" Mind-Genomics and Data-Driven Personalized Health Plans

Gillie Gabay and Howard R. Moskowitz

Introduction

Predictive analytics (PA) is the branch of data mining concerned with the prediction of future probabilities and trends (Lee, 2013). The central element of PA is the *predictor*, a variable that can be measured for an individual, in order to predict future behavior. When multiple predictors are available, they are combined into a predictive model, which, when deployed by the service provider, can be used to forecast future probabilities of outcomes with an acceptable level of reliability. In predictive modeling, data are collected, a statistical model is formulated, predictions are made, and the model is validated and revised as additional data become available (Eckerson, 2007).

PA is applied to many research areas, including meteorology, security, genetics, economics, marketing, and recently to health (Gabay, Moskowitz, Onufrey, & Rappaport, 2017). In this study we focus on PA and health and more specifically on PA and delivery of health-care services. We demonstrate the ability of health funds to discover mind-sets of patients with respect to a topic; to use PA to assign a person in the population to a mind-set in the sample; and to thereby use the right messaging for each patient. The relation between PA and messaging used by health plans has not been investigated and is the focus of this chapter.

Health funds have been consumed by care of the sick rather than with preventive health care. Health systems promote health through epidemiology which builds and examines clinical outcomes at population level. Data systems do not enable access to patient treatment outcome that may be compared to one's previous outcomes or to outcomes of a group of patients with the same specific health conditions. Even if physicians had access to these comparative massive amounts of data for all diseases, they would need time and expertise to analyze the information and integrate it with the patient's own medical profile. This in-depth research is beyond the scope of a physician's grasp, particularly facing today's global shortage

in physicians and austerity of health systems (Crisp & Chen, 2014). Shifting the focus from treatment to prevention and incorporating the "mind" of the patient in health plans, health funds will be able to better understand what promotes health and how to avoid illness at patient level. PA may revolutionize the way medicine is practiced today for better health, higher disease reduction, and personalized health plans (Kohane, Drazen, & Campion, 2012).

Looking Forward – The Value of PA

PA promotes health by predicting clinical outcomes for individual patients. PA differs from traditional statistics and from evidence-based medicine in several ways. First, predictions are made for individuals and not for groups, with the ability to predict behaviors (McEachan, Conner, Taylor, & Lawton, 2011). Second, PA does not rely upon a normal (bell-shaped) curve as what may work best for people in the middle of a normal distribution may not work best for an individual patient who seeks treatment. PA may include data from outcomes of past treatment as well as from the latest medical research published in peer-reviewed journals and databases.

PA not only helps with predictions, but may also reveal surprising associations in data. PA may increase the accuracy of diagnoses of patients at the emergency room in cases that is difficult to know whether the patient should be hospitalized. If physicians were able to answer questions about the patient and her or his condition using a system with a tested and accurate predictive algorithm, then the likelihood that the patient could be sent home safely may be assessed in order to support and assist the judgment of the physician (Miner et al., 2014). Predictions can range from responses to medications to hospital readmission rates. PA can help physicians decide the exact treatments for each patient, ruling out unnecessary potentially dangerous treatments that will not work for a certain individual. Better diagnoses and more targeted treatments will naturally lead to increases in good outcomes and to lower depletion of increasingly scarce resources, such as the increasingly rare time of attending physicians.

PA will also promote preventive medicine and public health. With early intervention, many diseases can be prevented or ameliorated. PA may allow primary care physicians to identify at-risk patients within their practice. With that knowledge, patients can make lifestyle and behavioral changes in order to avoid risks (Armstrong et al., 2007). As lifestyles change, population disease patterns may dramatically change resulting in savings in medical costs (Chin et al., 2012). Also, future medications might be designed just for a certain person as PA methods will sort out what works for people with similar subtypes and molecular pathways. The patient role will change as patients become more informed. Patients who will collaborate with their physicians are expected to achieve better outcomes. Patients will become aware of possible personal health risks sooner. Beyond the knowledge of the personal genome as a source of information we have the increasing use of apps and medical devices (i.e., wearable devices and monitoring systems) and consequently more accurate and up-to-date information. The positive outcome is that patients will have the right knowledge to help