# Table of Contents

Preface .............................................................................................................................................. xviii

Chapter 1
The Impact of Quality E-Feedback as an Element of Social Learning Theory Applied in the
Context of E-Learning Communities of Practice ...................................................................................... 1
   Evelyn Gullett, Universitas 21 Global, Germany

Chapter 2
A Document Reuse Tool for Communities of Practice ........................................................................... 13
   Aida Boukottaya, University of Fribourg, Switzerland
   Bernadette Charlier, University of Fribourg, Switzerland
   Micaël Paquier, EPFL, Switzerland
   Loïc Merz, EPFL, Switzerland
   Stéphane Sire, EPFL, Switzerland
   Christine Vanoirbeek, EPFL, Switzerland

Chapter 3
Tackling Acceptability Issues in Communities of Practice by Providing a Lightweight
Email-Based Interface to Social Software ............................................................................................... 26
   Chiu Man Yu, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
   Denis Gillet, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
   Sandy El Helou, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
   Christophe Salzmann, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

Chapter 4
Supporting Communities of Practice by Advancing Knowledge Management between
Hybrid Collaborative Environments ...................................................................................................... 38
   Anna De Liddo, Open University, UK
   Grazia Concilio, Politecnico di Milano, Italy
Chapter 5
Using Graphs in Developing Educational Material

Thanassis Hadzilacos, Open University of Cyprus, Cyprus & Research Academic Computer Technology Institute, Patras, Greece
Dimitris Kalles, Hellenic Open University, Greece
Dionysis Karaiskakis, Hellenic Open University, Greece
Maria Pouliopoulou, Research Academic Computer Technology Institute, Greece

Chapter 6
Using Storytelling as the Pedagogical Model for Web-Based Learning in Communities of Practice

Nalin Sharda, Victoria University, Australia

Chapter 7
Mining Unnoticed Knowledge in Collaboration Support Systems

George Gkotsis, University of Patras, Greece
Nikos Tsirakis, University of Patras, Greece

Chapter 8
Live Virtual Technologies to Support Extended Events in Online Communities of Practice

Eleftheria Tomadaki, Knowledge Media Institute, The Open University, UK
Peter J. Scott, Knowledge Media Institute, The Open University, UK
Kevin A. Quick, Knowledge Media Institute, The Open University, UK

Chapter 9
Individual Learning and Emotional Characteristics in Web-based Communities of Practice

Nikos Tsianos, National & Kapodistrian University of Athens, Greece
Zacharias Lekkas, National & Kapodistrian University of Athens, Greece
Panagiotis Germanakos, University of Cyprus, Cyprus
Constantinos Mourlas, National & Kapodistrian University of Athens, Greece

Chapter 10
From ‘Collecting’ to ‘Deciding’: Facilitating the Emergence of Decisions in Argumentative Collaboration

Manolis Tzagarakis, Research Academic Computer Technology Institute, Greece
Nikos Karousos, Research Academic Computer Technology Institute, Greece
Giorgos Gkotsis, Research Academic Computer Technology Institute, Greece
Vasilis Kallistros, Research Academic Computer Technology Institute, Greece
Spyros Christodoulou, Research Academic Computer Technology Institute, Greece
Christos Mettouris, Research Academic Computer Technology Institute, Greece
Panagiotis Kyriakou, Research Academic Computer Technology Institute, Greece
Dora Nousia, Research Academic Computer Technology Institute, Greece
Chapter 11
An Organizational Knowledge Circulation Management System for Universities.......................... 143
Toshie Ninomiya, The University of Electro-Communications, Japan
Fumihiko Anma, The University of Electro-Communications, Japan
Toshio Okamoto, The University of Electro-Communications, Japan

Chapter 12
Using Web-Based Technologies and Communities of Practice for Transformative Hybrid and Distance Education ........................................................................................................................................... 156
Nory Jones, University of Maine, USA
Omar J. Khan, University of Maine, USA

Chapter 13
The Role of Learner in an Online Community of Inquiry: Instructor Support for First-time Online Learners ........................................................................................................................................ 167
Martha Cleveland-Innes, Athabasca University, Canada
Randy Garrison, The University of Calgary, Canada

Chapter 14
Visualising the Invisible in Science Centres and Science Museums: Augmented Reality (AR) Technology Application and Science Teaching ........................................................................................................ 185
Hannu Salmi, University of Helsinki, Finland
Sofoklis Sotiriou, Ellinogermaniki Agogi Foundation, Greece
Franz Bogner, University of Bayreuth, Germany

Selected Readings

Chapter 15
A Proposed Framework for Designing Sustainable Communities for Knowledge Management Systems .......................................................................................................................... 210
Lakshmi Goel, University of Houston, USA
Elham Mousavidin, University of Houston, USA

Chapter 16
An Agent System to Manage Knowledge in CoPs ............................................................................ 230
Juan Pablo Soto, University of Castilla - La Mancha, Spain
Aurora Vizcaino, University of Castilla - La Mancha, Spain
Javier Portillo-Rodriguez, University of Castilla - La Mancha, Spain
Mario Piattini, University of Castilla - La Mancha, Spain