Table of Contents

Foreword ............................................................................................................................................ xix

Preface ................................................................................................................................................ xxi

Acknowledgment .............................................................................................................................. xxiv

Section 1
The Use of Concept Mapping and Collaborative Learning in E-Learning

Chapter 1
LOLA: A Collaborative Learning Approach Using Concept Maps ......................................................... 1

Patricia Lupion Torres, Pontifícia Universidade Católica do Paraná, Brazil

Chapter 2
Collaborative Learning and Concept Mapping for Language Teaching............................................. 13

Rita de Cássia Veiga Marriott, University of Birmingham, UK

Chapter 3
The Assessment of Interactive Learning: The Contributions Made by Online Portfolios
and Cognitive Mapping ................................................................................................................... 35

Edmée Santos, Faculty of Education of State of Rio de Janeiro, Brazil
Marco Silva, Estácio de Sá University, Brazil

Chapter 4
Eliciting Thinking Skills with Inquiry Maps in CLE ........................................................................ 52

Alexandra Okada, The Open University, UK

Chapter 5
Concept Maps as a Tool for Promoting Online Collaborative Learning in Virtual Teams
with Pre-Service Teachers .............................................................................................................. 81

Wan Ng, La Trobe University, Australia
Ria Hanewald, The University of Melbourne, Australia
Chapter 6
Factors Influencing Individual Construction of Knowledge in an Online Community of Learning and Inquiry Using Concept Maps ................................................................. 100
Simone C. O. Conceição, University of Wisconsin–Milwaukee, USA
Maria Julia Baldor, University of Wisconsin–Milwaukee, USA
Carrie Ann Desnoyers, University of Wisconsin–Milwaukee, USA

Chapter 7
Distance Collaboration with Shared Concept Maps ........................................................................... 120
Alfredo Tifi, World Wide Maps, Italy
Antonietta Lombardi, World Wide Maps, Italy

Section 2
The Use of Concept Mapping and Collaborative Learning in Face-to-Face Situations

Chapter 8
Collaborative Learning: Leveraging Concept Mapping and Cognitive Flexibility Theory.............. 152
Chaka Chaka, Walter Sisulu University, South Africa

Chapter 9
Teaching Critical Thinking and Team Based Concept Mapping ....................................................... 171
Dawndra Meers-Scott, Texas Tech University, USA
LesLee Taylor, Texas Tech University, USA
John Pelley, Texas Tech University, USA

Chapter 10
Intersubjective Meaning-Making in Dyads Using Object-Typed Concept Mapping ..................... 187
Josianne Basque, LICEF Research Center, Télé-Université, Canada
Béatrice Pudelko, LICEF Research Center, Télé-Université, Canada

Chapter 11
Collaborative Learning by Developing (LbD) Using Concept Maps and Vee Diagrams.................. 215
Päivi Immonen-Orpana, Laurea University of Applied Sciences, Finland
Mauri Åhlberg, University of Helsinki, Finland

Chapter 12
A Systematic Review of Research on Collaborative Learning with Concept Maps ....................... 238
Olusola O. Adesope, Simon Fraser University, Canada
John C. Nesbit, Simon Fraser University, Canada
Chapter 13
Exploring Semiotic Approaches to Analysing Multidimensional Concept Maps
Using Methods that Value Collaboration.......................................................... 256
Christina J. Preston, University of London, UK

Chapter 14
Expanded Collaborative Learning and Concept Mapping: A Road to Empowering
Students in Classrooms.................................................................................... 283
Paulo Rogério Miranda Correia, Universidade de São Paulo, Brazil
Maria Elena Infante-Malachias, Universidade de São Paulo, Brazil

Chapter 15
Mapping Concepts with Fisherfolk.................................................................... 301
Denis Hellebrandt, School of International Development University of East Anglia, UK

Chapter 16
Using Concept Mapping to Improve the Quality of Learning.......................... 316
Maria Luisa Pérez Cabani, University of Girona, Spain
Josep Juandó Bosch, University of Girona, Spain

Chapter 17
Concept Maps and Conceptual Change in Physics........................................... 337
Angel Luis Pérez Rodríguez, University of Extremadura, Spain
Maria Isabel Suero López, University of Extremadura, Spain
Manuel Montanero-Fernández, University of Extremadura, Spain
Pedro J. Pardo Fernández, University of Extremadura, Spain
Manuel Montanero-Morán, University of Extremadura, Spain

Chapter 18
Using Concept Maps to Assess Individuals and Teams in Collaborative Learning Environments.... 358
Tristan E. Johnson, Florida State University, USA
Dirk Ifenthaler, Albert-Ludwigs University Freiburg, Germany
Pablo N. Pirnay-Dummer, Albert-Ludwigs University Freiburg, Germany
J. Michael Spector, University of Georgia, USA
Section 3
The Use of Concept Mapping and Collaborative Learning at Pre-School, Primary and Secondary Schools

Chapter 19
Enhancing Autonomy, Active Inquiry and Meaning Negotiation in Preschool Concept Mapping .... 383
Gloria Gomez, Swinburne University of Technology, Australia

Chapter 20
Consensual Concept Maps in Early Childhood Education ......................................................... 410
Rosario Mérida Serrano, University of Córdoba, Spain

Chapter 21
Concept Maps and Meaningful Learning ............................................................................. 430
Patricia Lupion Torres, Pontifícia Universidade Católica do Paraná, Brazil
Luiza Tatiana Forte, Instituto de Ensino Superior Pequeno Príncipe, Brazil
Josiane Maria Bortolozzi, Pontifícia Universidade Católica do Paraná, Brazil

Chapter 22
Concept Mapping and Formative Assessment: Elements Supporting Literacy and Learning........ 449
Jeffrey Beaudry, University of Southern Maine, USA
Polly Wilson, University of Southern Maine, USA

Compilation of References ..................................................................................................... 474

About the Contributors ......................................................................................................... 510

Index ...................................................................................................................................... 518