

Knowledge Cartography

[DOWNLOAD HERE](#)

1;Contents;5 2;Knowledge Cartography: Preface;7 2.1;Genres of Knowledge Map;8 2.2;Overview of the Book;12 2.3;Toward Human Machine Knowledge Cartography;15 2.4;References;17 3;Contributors;20 4;1. Empirical Studies of the Value of Conceptually Explicit Notations in Collaborative Learning;23 4.1;1.1 Introduction;23 4.2;1.2 Background;24 4.3;1.3 A Summary of the Research;27 4.4;1.4 Related Work;39 4.5;1.5 Conclusions;40 4.6;Acknowledgement;41 4.7;References;41 5;2. Concept Mapping Using CmapTools to Enhance Meaningful Learning;46 5.1;2.1 Introduction;46 5.2;2.2 Concept Maps and Meaningful Learning;47 5.3;2.3 CmapTools: Integrating Concept Mapping with Technology;50 5.4;2.4 A Concept Map-Centered Learning Environment;54 5.5;2.5 Adopting the Concept Map-Centered Learning Environment;56 5.6;2.6 Conclusion;65 5.7;References;65 6;3. Enhancing Collaborative and Meaningful Language Learning Through Concept Mapping;68 6.1;3.1 Introduction: The Use of Concept Mapping in Lapli;68 6.2;3.2 Theories Underpinning the Language Learning Lab;70 6.3;3.3 Lapli Methodology;72 6.4;3.4 Concept Map Activity: Formative and Summative Assessment;87 6.5;3.5 Results and Discussion;89 6.6;3.6 Closing, but Not Final, Comments;91 6.7;References;92 7;4. Thinking Maps: A Visual Language for Learning;94 7.1;4.1 The Mapping Metaphor;94 7.2;4.2 Cartography and Cognition;95 7.3;4.3 The Cognitive Dissonance of Linear Representations;96 7.4;4.4 A Summary Definition of Visual Tools;98 7.5;4.5 Thinking Maps: A Synthesis Language of Visual Tools;100 7.6;4.6 Thinking Maps as a Language;102 7.7;4.7 Five Qualities of Thinking Maps as a Language;104 7.8;4.8 Whole System Change;108 7.9;References;108 8;5. The Constructivist Mapping of Internet Information at Work with Nestor;110 8.1;5.1 Introduction;110 8.2;5.2 Constructivism;111 8.3;5.3 Applied Constructivism at Work with Nestor;114 8.4;5.4 Lessons Learned from Nestor Use;125 8.5;5.5 Conclusions;130 8.6;References;131 9;6. Cognitive and Pedagogical Benefits of Argument Mapping: LAMP Guides the Way to Better Thinking;133 9.1;6.1 The Promise of LAMP;133 9.2;6.2 The AM in LAMP;133 9.3;6.3 The LAMP in LAMP;136 9.4;6.4 Experimental Evidence for LAMP's Cognitive and Pedagogical;138 9.5;Benefits in Dedicated Critical Thinking Courses;138 9.6;6.5 Evidence about LAMP in Standard Classrooms;139 9.7;6.6 How LAMP Confers These Benefits;142 9.8;6.7 The Enquiring Classroom;146 9.9;6.8

Conclusions;147 9.10;Acknowledgment;149 9.11;References;149 10;7. Scaffolding School Pupils Scientific Argumentation with Evidence-based Dialogue Maps;151 10.1;7.1 Why is It so Hard to Argue Scientifically?;151 10.2;7.2 Could Argumentative Maps be Useful for Secondary School?;153 10.3;7.3 Adapting Dialogue Mapping for Scientific Arguing;154 10.4;7.4 Methodology: Constructing Scientific Arguments;157 10.5;in Compendium;157 10.6;7.5 Discussion: Returning to Our Research Questions;176 10.7;Acknowledgments;181 10.8;References;181 11;8. Argument Diagramming: The Araucaria Project;183 11.1;8.1 Introduction;183 11.2;8.2 Diagramming the Standard Account;184 11.3;8.3 Diagramming the Toulmin Account;187 11.4;8.4 Diagramming the Wigmore Account;189 11.5;8.5 Translation Between Diagram Types;191 11.6;8.6 Translating Toulmin Analyses;193 11.7;8.7 Translating Wigmore Diagrams;195 11.8;8.8 Applications;197 11.9;8.9 Conclusion;199 11.10;References;200 12;9. Mapping the Curriculum: How Concept Maps can Improve the Effectiveness of Course Development;202 12.1;9.1 The Challenge of Developing Curricula;202 12.2;9.2 Mapping for Curriculum Design;204 12.3;9.3 Mapping for Curriculum Communication;208 12.4;9.4 Mapping for Curriculum Implementation;209 12.5;9.5 Summing Up;214 12.6;References;216 13;10. Using Compendium as a Tool to Support the Design of Learning Activities;218 13.1;10.1 Introduction;218 13.2;10.2 Learning Design;219 13.3;10.3 Capturing and Representing Practice;221 13.4;10. EAN/ISBN : 9781848001497
Publisher(s): Springer, Berlin, Springer, London Format: ePub/PDF Author(s): Jain, Lakhmi - Wu, Xindong - Okada, Alexandra

[DOWNLOAD HERE](#)

Similar manuals: