

## Contents

Introduction ..... 9-10

### **1 Information Systems and Learning in a Global Society: Concepts, Design and Implementation**

Claudio Gnoli  
*The meaning of facets in non-disciplinary classifications* ..... 11-18

Jeff Gabel  
*Improving Information Retrieval of Subjects through Citation-Analysis :  
a Study* ..... 19-26

Aaron Loehrlein, Richard Martin, and Edward L. Robertson  
*Integration of International Standards in the Domain of  
Manufacturing Enterprise* ..... 27-34

Charles Abiodun Robert and Amos David  
*Annotation and its application to information research in  
economic intelligence* ..... 35-40

Shawne D. Miksa, William E. Moen, Gregory Snyder,  
Serhiy Polyakov, and Amy Eklund  
*Metadata Assistance of the Functional Requirements for Bibliographic  
Records' Four User Tasks: a report on the MARC Content Designation  
Utilization (MCDU) Project* ..... 41-50

Dimitris A. Dervos and Anita Coleman  
*A Common Sense Approach to Defining Data, Information, and Metadata* ..... 51-58

Markus F. Peschl  
*Knowledge-Oriented Educational Processes.  
From Knowledge Transfer to Collective Knowledge Creation and Innovation* ..... 59-70

Ricardo Eito Brun  
*Retrieval effectiveness in software repositories: from faceted classifications  
to software visualization techniques* ..... 71-76

Olha Buchel  
*Uncovering Hidden Clues about Geographic Visualization in LCC* ..... 77-84

Kerstin Zimmermann, Julika Mimkes, and Hans-Ulrich Kamke  
*An Ontology Framework for e-Learning in the Knowledge Society* ..... 85-92

Mikel Breitenstein  
*Global Unity: Otto Neurath and the International Encyclopedia of  
Unified Science* ..... 93-100

Athena Salaba, Marcia L. Zeng, and Maja Zumer  
*Functional Requirements for Subject Authority Records* ..... 101-106

## 2 Global Society and Learning in Theories of Knowledge and Knowledge Organization

- Jack Andersen  
*Social change, modernity and bibliography:  
 Bibliography as a document and a genre in the global learning society*..... 107-114
- Ágnes Hajdu Barát  
*Usability and the user interfaces of classical information retrieval languages*..... 115-122
- Judith Simon  
*Interdisciplinary Knowledge Creation – Using Wikis in Science* ..... 123-130
- Alon Friedman  
*Concept Mapping a measurable sign* ..... 131-140
- Chaim Zins  
*Knowledge Map of Information Science: Issues, Principles, Implications*..... 141-150
- Rebecca Green  
*Semantic Types, Classes, and Instantiation*..... 151-158
- Clare Beghtol  
*The Global Learning Society and the Iterative Relationship between  
 Theory and Practice in Knowledge Organization Systems*..... 159-164

## 3. Multilingual problems of information retrieval

- Elaine Menard  
*Image Retrieval in Multilingual Environments:  
 Research Issues* ..... 165-172
- Graciela Rosemblat and Laurel Graham  
*Cross-Language Search in a Monolingual Health Information System:  
 Flexible Designs and Lexical Processes*..... 173-182
- Susanna Keränen  
*Equivalence and focus of translation in multicultural thesaurus construction*..... 183-194
- Marianne Dabbadie and Jean-Marc Blancherie  
*Alexandria, a multilingual dictionary for Knowledge Management purposes* ..... 195-204

## 4. Representations of Educational and didactical knowledge

- Elin K. Jacob, Hanne Albrechtsen, and Nicolas George  
*Empirical analysis and evaluation of a metadata scheme for  
 representing pedagogical resources in a digital library for educators* ..... 205-212
- Nancy J. Williamson  
*Knowledge Structures and the Internet: Progress and Prospects* ..... 213-224
- B. H. Kwaśnik, Y.-L. Chun, K. Crowston, J. D’Ignazio, and J. Rubleske  
*Challenges in Creating a Taxonomy of Genres of Digital Documents*..... 225-232

Hur-Li Lee <i>Navigating Hierarchies vs. Searching by Keyword: Two Cultural Perspectives</i> .....	233-240
Maria Teresa Biagetti <i>Indexing and scientific research needs</i> .....	241-246
Babajide Afolabi and Odile Thiery <i>Using Users' Expectations to Adapt Business Intelligence Systems</i> .....	247-254
Aaron Loehrlein, Elin K. Jacob, Seungmin Lee, and Kiduk Yang <i>Development of Heuristics in a Hybrid Approach to Faceted Classification</i> .....	255-262
Michèle Hudon <i>Structure, logic, and semantics for Web-based collections in education</i> .....	263-270
Catalina Naumis Peña <i>Evaluation of Educational Thesauri</i> .....	271-278

#### **5. Theoretical basis of knowledge organization: universal vs. local solutions**

Martin Thellefsen <i>The dynamics of information representation and knowledge mediation</i> .....	279-286
Jian Qin, Peter Creticos, and Wen-Yuan Hsiao <i>Adaptive Modeling of Workforce Domain Knowledge</i> .....	287-294
Julianne Beall and Diane Vizine-Goetz <i>Finding Fiction: Facilitating Access to Works of the Imagination Scattered by Form and Format</i> .....	295-302
Joseph T. Tennis <i>Function, Purpose, Predication, and Context of Information Organization Frameworks</i> .....	303-310
Edmund JY Pajarillo <i>A qualitative research on the use of knowledge organization in nursing information behavior</i> .....	311-322
Ia C. McIlwaine and Joan S. Mitchell <i>The new ecumenism: Exploration of a DDC/UDC view of religion</i> .....	323-330

#### **6. Users and uses of knowledge organization**

María J. López-Huertas <i>Thematic map of interdisciplinary domains based on their terminological representation. The Gender Studies</i> .....	331-338
Edmund JY Pajarillo <i>A classification scheme to determine medical necessity: A knowledge organization global learning application</i> .....	339-348

Steven J. Miller, Melodie J. Fox, Hur-Li Lee, and Hope A. Olson  
*Great Expectations: Professionals' Perceptions and Knowledge Organization Curricula* ..... 349-358

Kathrin La Barre  
*A multi-faceted view: Use of facet analysis in the practice of website organization and access*..... 359-366

Xia Lin, Serge Aluker, Weizhong Zhu, and Foster Zhang  
*Dynamic Concept Representation through a Visual Concept Explorer* ..... 367-374

Victoria Frâncu  
*Subjects in FRBR and Poly-Hierarchical Thesauri as Possible Knowledge Organizing Tools*..... 375-382

## 7. Ontologies

Richard P. Smiraglia  
*Empiricism as the Basis for Metadata Categorisation: Expanding the Case for Instantiation with Archival Documents*..... 383-388

Carol A. Bean  
*Hierarchical Relationships Used in Mapping between Knowledge Structures* ..... 389-394

## 8. KO for non print multimedia

Francisco Javier García Marco  
*Understanding the categories and dynamics of multimedia information: a model for analysing multimedia information*..... 395-404

Rob Hilderley and Pauline Rafferty  
*Flickr and Democratic Indexing: Disciplining Desire Lines*..... 405-412

## 9. Linguistic and cultural approaches

Blanca Rodríguez Bravo  
*The Visibility of Women in Indexing Languages* ..... 413-422

Florian Kohlbacher  
*Knowledge Organization(s) in Japan – Empirical Evidence from Japanese and Western Corporations* ..... 423-434

Ann Doyle  
*Naming and Reclaiming Indigenous Knowledges in Public Institutions: Intersections of Landscapes and Experience*..... 435-442