Contents

Preface

W. Boyd Rayward
From the index card to the World City: knowledge organization and visualization in the work and ideas of Paul Otlet 1

1. Challenges in visualization of knowledge

Scott B. Weingart
From trees to webs: uprooting knowledge through visualization 43

Charles van den Heuvel; Richard Smiraglia
Visualizing knowledge interaction in the multiverse of knowledge 59

Xia Lin; Jae-wook Ahn
Challenges of knowledge structure visualization 73

2. Categorisation for retrieval, exploration and learning

Lev Manovich
Looking at one million images: how visualization of big cultural data helps us to unlearn our cultural categories 89

Kathryn La Barre
Sempre avanti? Some reflections on faceted interfaces 91

Nathalie Pinède; Véronique Lespinet-Najib
How can users get the gist of a taxonomy using tag clouds? 105

3. Classification, interfaces and information architecture

Luca Rosati
How to design interfaces for choice: Hick-Hyman law and classification for information architecture 121

Andrea Resmini
Ghost in the shell: navigation, meaning and place-making in information space 135
4. Visualization and navigation of knowledge structures

Bin Yang; Jean-Gabriel Ganascia
Memory Islands: an approach to cartographic visualization 137

Daniel Hienert; Dennis Wegener; Siegfried Schomisch
Exploring semantically-related concepts from Wikipedia: the case of SeRE 153

Dario Rodighiero; Giorgio De Michelis
The Homer’s list or How classifications can be displayed on tablets 167

5. Indexing languages, relationships and visualization

Rebecca Green; Diane Vizine-Goetz; Marcia Lei Zeng, Maja Žumer
From modelling to visualization of topic relationships in classification schemes 177

Wei Fan; Shuqing Bu; Qing Zou
Semantic visualization for subject authority data of Chinese Classified Thesaurus 191

Špela Razpotnik; Alenka Šauperl
Enhancing user browsing success through visualization of indexing terms 207

6. Visualization in collection searching and browsing

Claudio Gnoli; Alberto Cheti
Sorting documents by base theme with synthetic classification: the double query method 225

Fabrice Papy
Classification and visualization: augmenting user independence and enhancing collections use 233

Marcel Worring
Easy categorisation of large image collections by automatic analysis and information visualization 235

7. Visualizing analytics of classification and collection metadata

Matthew Battles; Yanni Loukissas
Data artefacts: tracking knowledge-ordering conflicts through visualization 243

Richard Smiraglia; Andrea Scharnhorst; Almila Akdag Salah, Cheng Gao
UDC in action 259
Posters - Short papers

Veslava Osinska; Joanna Dreszer-Drogorob; Grzegorz Osinski; Michal Gawarkiewicz
Cognitive approach in classification visualization: end-user study 273

Nuno Freire
Visualization and navigation of knowledge in pan-European resources: the case of The European Library 283

List of contributors 289

Subject index 291

Organization: International UDC Seminar 2013 299