Developing Metadata Application Profiles

Part of the Advances in Web Technologies and Engineering Book Series

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Description:

The prevalence of data science has grown exponentially in recent years. Increases in data exchange have created the need for standards and formats on handling data from different sources.

Developing Metadata Applications Profiles is an innovative reference source that discusses the latest trends and techniques for effectively managing and exchanging metadata. Includes a range of perspectives on schemas and application profiles, such as interoperability, ontology-based design, and model-driven approaches.

Readers:

This book is ideally designed for researchers, academics, professionals, graduate students, and practitioners actively engaged in data science.


Topics Covered:

- Implementation Techniques
- Interoperability
- Minimum Mandatory Metadata Sets
- Model-Driven Approaches
- Ontology-Based Design
- Open Educational Resources
- Poetry Metadata

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Mariana Malta holds a PhD in Information Systems & Technologies from the University of Minho, Portugal. She is an electrical and software engineer from the Faculty of Engineering, University of Oporto, Portugal. She is an associate professor in the Polytechnic of Oporto since 1998. She is currently on leave to work as a researcher in the European Research Council (ERC) Starting Grant Project “POSTDATA”, where she is the leading information modeler. POSTDATA is located in the Universidad Nacional de Educación a Distancia at the Laboratory of Digital Humanities. Mariana is interested in semantic modeling and development of application profiles, more particularly in the study and development of methods for the development of application profiles. She is one of the authors of Me4MAP a method for the development of metadata application profiles.

Ana Alice Baptista is a professor at the Information Systems Department and a researcher at ALGORITMI Center, both at University of Minho, Portugal. She graduated in computer engineering and has a PhD in Information Systems and Technologies. As an independent member of the Dublin Core Metadata Initiative (DCMI) Governing Board she was elected chair-elect of DCMI. She also co-chairs the DCMI Education & Outreach Committee (DC-EQC). She is also a member of the Elpub conference series Executive Committee. She participated in several R&D projects and she was an evaluator of project proposals under FP7. She has authored or co-authored more than 60 articles. Her main areas of interest include Metadata, Linked Data and the Open Movement both under their technological and social perspectives.
Paul Walk has had a long-term involvement in developing, supporting and advocating the use of institutional repositories. With a focus on technical infrastructure and information standards, he is an active participant in COAR’s Next-generation Repositories working group and is the technical author of the successful RIOXX metadata application profile. Paul also works closely with the Dublin Core Metadata Initiative and is current Chair of the DCMI Governing Board. Paul is currently Head of Technology Strategy and Planning at EDINA, University of Edinburgh.