

## Accepted Papers

### MTSR 2024 CONFERENCE

#### 18<sup>th</sup> International Conference on Metadata and Semantics Research

Towards MatCore: A Unified Metadata Standard for Materials Science.

*Jane Greenberg, Pamela Boveda-Aguirre, John Allison, Pietro Asinari, Maria Chan, Anand Chandrasekaran, Elif Ertekin, Emmanouel Garoufallou, Giulia Galli, Paolo Giannozzi, Feliciano Giustino, Gerhard Goldbeck, Hendrik Heinz, Arthi Jayaraman, Vincenzo Lordi, Kristin Persson, Gian-Marco Rignanes, Aidan Thompson, Eric Toberer, Scott McClellan and Ellad Tadmor*

The integration of the Pinakes Model to the IFLA Library Reference Model.

*Ana Carolina Novaes de Mendonça, Ana Carolina Arakaki, Bruno Costa, Dayane Machado and Greicy Santos*

The Use-Case of Enhanced AEON in Education.

*Cornelia Veja and Christoph Schindler*

DATA-FW: An Ontology Network for Annotating Open Datasets.

*Antoine Dupuy, Cassia Trojahn, Nathalie Aussenac-Gilles and Christophe Baehr*

Representation Learning on IoT Knowledge Graphs.

*Roderick van der Weerdt, Victor de Boer, Laura Daniele, Ronald Siebes and Frank Van Harmelen.*

A RAG Approach for Generating Competency Questions in Ontology Engineering.

*Xueli Pan, Jacco van Ossenbruggen, Victor de Boer and Zhisheng Huang.*

Modeling Modern and Historical Data as a Knowledge Graph: A Case Study for Earthquake Data.

*Iosif Oikonomakis, Pavlos Fafalios, Michalis Mountantonakis and Yannis Tzitzikas.*

Towards a Knowledge Graph for Models and Algorithms in Applied Mathematics.

*Björn Schembera, Frank Wübbeling, Hendrik Kleikamp, Burkhard Schmidt, Aurela Shehu, Marco Reidelbach, Christine Biedinger, Jochen Fiedler, Thomas Koprucki, Dorothea Iglezakis and Dominik Goeddeke.*

Developing data sets for training OCR/HTR systems for the late 19<sup>th</sup> century Greek texts.

*Georgios Roukas and Michail Sfakakis*

JobHive: A Semantic Path-Based Platform for E-Recruitment Recommendation.

*Hakim Mokeddem, Mama Saadia Benelhadj Djelloul and Mohammed Dhiya Eddine Gouaouri*

A Proposed Methodology for Sub-Ontology Development in Comprehensive Scientific Investigation Methods and Tooling.

*Maria Ioanna Maratsi, Nina Gialoussi, Charalampos Alexopoulos and Yannis Charalabidis*

Making Sense of Metadata Mess: Alignment & Risk Assessment for Diatom Data Use Case

*Kio Polson, Marina Potapova, Uttam Meena, Chad Peiper, Joshua Brown, Joshua Agar and Jane Greenberg.*

A Health Tourism Ontology Framework for Versatile Applications.

*Sofia Gkevrekis, Vasiliki Fiska, Spiros Nikolopoulos and Ioannis Kompatsiaris*

Cross-referencing Metadata through an extension of the MEDFORD language.

*Polina Shpilker, Benjamin Stubbs, Michael Sayers, Lenore Cowen, Shaun Wallace, Noah Daniels and Alva Couch*

Aligning Data Management Plans with Community Standards using FAIR Implementation Profiles.

*Navroop K. Singh, Shuai Wang, Angelica Maineri, Tycho Hofstra, Mark Bruyneel, Stephanie van de Sandt, Ronny Siebes, Jacco van Ossenbruggen and Tobias Kuhn*

A Greek Music Audiovisual Collections platform: presentation of the open source

ReasonableGraph platform for music collections.

*Pantelis Brattis, Emmanouel Garoufallou, Eugenios Politis, Niki Maria Chatziefstratiou, Petros Vouvaris, Evangelia Spyrou, Thalia Adelfopoulou, Giorgos Kokkonis, Nikos Ordoulidis, Giorgos Evangelou, Aimilios Kam-pouropoulos, Asterios Zacharakis, Savvas Kazanis, Vera Kriezi, Valia Vraka, Mirena Mountzia, Kostas Maistrelis, Simos Leonidakos, Nikos Papazis, Pavlos Siskos.*

The Convergence of Open Data, Linked Data, Ontologies, and Large Language Models: Enabling Next-Generation Knowledge Systems.

*Andrea Cigliano and Francesca Fallucchi*

Semantic enrichment of metadata in the Rede Bibliodata.

*Ana Carolina Novaes de Mendonça and Ana Carolina Arakaki*

On the interoperability between Archival and Library Authorities.

*Aggeliki Drakopoulou, Leonidas Papachristopoulos and Christos Papatheodorou.*

Applying new standards to legacy data for semantic interoperability and multilingualism: a case study at the National Library of Greece.

*Sofia Zapounidou, Michalis Gerolimos, Eftychia Koufakou and Giorgos Veranis*

CTP Ontology: An Ontology for Creating and Structuring Cultural Thematic Paths.

*Tiziana Pasciuto, Riccardo Albertoni and Roberta Maggi*

Ontological Patterns for Modelling Art Exhibitions.

*Nicola Carboni*

Ontological approaches to morphological semantics in Modern Greek derivation.

*Nikos Vasilogamvrakis, Michalis Sfakakis, Maria Koliopoulou and Giannoula Giannouloupoulou*

Vector Spaces Model: A Knowledge Integration Method for Research on Linkage Relationships in Agricultural Science and Technology.

*Miaoling Chai, Xian Zhang, Yawei Tang and Dawa Zhuoma*

Building a transliteration tool to enhance the exchange of metadata about Greek authors.

*Charalampos Bratsas, Lazaros Ioannidis, Ilias Tsitsilegkas, Michalis Gerolimos, Eftychia Koufakou and Sofia Zapounidou*

The semantics of emotion: Exploring Synonym Rings to evaluate emotive contexts in translations across Sinhala and English.

*Malithi Alahapperuma and Andreas Vlachidis*

Creation of a music ontology in the framework of the project Greek Music Audiovisual Collections (M.EL.O.S.)

*Pantelis Brattis, Emmanouel Garoufallou, Eugenios Politis, Pavlos Siskos, Petros Vouvaris, Evangelia Spyrou, Thalia Adelfopoulou, Giorgos Kokkonis, Nikos Ordoulidis, Giorgos Evangelou, Aimilios Kampouropoulos, Asterios Zacharakis, Savvas Kazanis, Vera Kriezi, Valia Vraka, Mirena Mountzia, Kostas Maistrelis, Simos Leonidakos, Nikos Papazis, Niki-Maria Chatziefstratiou.*

Metadata-driven Cross-Infrastructure Integration between Solid Earth and Marine sciences in the GEO-INQUIRE project.

*Kety Giuliacci, Daniele Bailo, Rossana Paciello, Jan Michalek, Valerio Vinciarelli, Manuela Sbarra, Marco Salvi and Enoc Martinez*

Public libraries - aggregators of new and reusable knowledge resources for the users' creative development.

*Ioana Cornelia Cristina Crihană*

IFLA LRM and Interoperability: mapping metadata of National Libraries.

*Ana Carolina Novaes de Mendonça, Fernanda Farinelli, Felipe Augusto Arakaki and Ana Carolina Arakaki (poster presentation)*

From Digitised Manuscript to Database: Automatic Processing of Civil Registers Automatic Processing of Civil Registers.

*Kata Ágnes Szűcs, Noémi Vadász, Zsolt Záros, Zoltan Szatucsek and Zsolt Bánki (poster presentation)*