

Table of Contents

In: Petr Sojka (ed.): Towards a Digital Mathematics Library. Paris, France, July 7-8th, 2010. Masaryk University Press, Brno, Czech Republic, 2010. pp. VII--VIII.

Persistent URL: <http://dml.cz/dmlcz/702591>

Terms of use:

© Masaryk University, 2010

Institute of Mathematics of the Academy of Sciences of the Czech Republic provides access to digitized documents strictly for personal use. Each copy of any part of this document must contain these *Terms of use*.



This paper has been digitized, optimized for electronic delivery and stamped with digital signature within the project *DML-CZ: The Czech Digital Mathematics Library* <http://project.dml.cz>

Table of Contents

I Towards a Digital Mathematics Library

Towards a Digital Mathematical Library: On the Road 3
Petr Sojka (Masaryk University, Brno, Czech Republic)

Mathematical Formulae Recognition and Logical Structure Analysis of
Mathematical Papers 7
Masakazu Suzuki (Kyushu University, Kyushu, Japan)

II Digitization Technologies and Platforms

EuDML—Towards the European Digital Mathematics Library 11
Wojtek Sylwestrzak (University of Warsaw, Warsaw, Poland), José Borbinha (Instituto Superior Técnico, Lisbon, Portugal), Thierry Bouche (Université Joseph-Fourier, Grenoble, France), Aleksander Nowiński (University of Warsaw, Warsaw, Poland), Petr Sojka (Masaryk University, Brno, Czech Republic)

Developing a Metadata Exchange Format for Mathematical Literature . . . 27
David Ruddy (Cornell University Library, Ithaca, New York, USA)

Designing a Semantic Ground Truth for Mathematical Formulae 37
Alan Sexton, Volker Sorge (University of Birmingham, Birmingham, UK), Masakazu Suzuki (Kyushu University, Kyushu, Japan)

III DML Building Experience

PDF Enhancements Tools for a Digital Library 45
Radim Hatlapatka, Petr Sojka (Masaryk University, Brno, Czech Republic)

Metadata Editing and Validation for a Digital Mathematics Library 57
Miha Filej (University of Ljubljana, Ljubljana, Slovenia), Michal Růžička, Martin Šárky, Petr Sojka (Masaryk University, Brno, Czech Republic)

Implementing Dynamic Visualization as an Alternative Interface to
a Digital Mathematics Library 63
Zuzana Nevěřilová (Masaryk University, Brno, Czech Republic)

Data Enhancements in a Digital Mathematical Library 69
Michal Růžička, Petr Sojka (Masaryk University, Brno, Czech Republic)

IV Digitization Reports

- bdim: the Italian Digital Mathematical Library 79
Vittorio Coti Zelati (Università degli Studi di Napoli "Federico II", Napoli, Italy)
- INSPIRE: Realizing the Dream of a Global Digital Library in
High-Energy Physics 83
Annette Holtkamp, Salvatore Mele, Tibor Šimko, Tim Smith (CERN, Geneva, Switzerland)

V Tools and Techniques

- Mathematical Communication and Representation in a Virtual
Learning Environment: A Case Study 95
César Córcoles, Antonia Huertas (Open University of Catalonia, Barcelona, Spain)
- Producing MathML with Tralics 105
José Grimm (Institut National de Recherche en Informatique et en Automatique, Sophia Antipolis, France)
- Symbol Declarations in Mathematical Writing: A Corpus Study 119
*Magdalena Wolska (Universität des Saarlandes, Saarbrücken, Germany),
Mihai Grigore (Jacobs University, Bremen, Germany)*
- Subject Index** 129
- Name Index** 133
- Author Index** 134