

Partners

The EuDML consortium has been formed of primary agents in their respective national digitization programmes, publishers of new material and leading technology providers.

Its aim is to exploit existing and emerging standards to integrate the content available at each partner's site, and provide guidelines for integration of further partners, as well as for worldwide cooperation.

- Instituto Superior Técnico: Computer Science Department (Portugal)
- Université Joseph-Fourier: Cellule MathDoc (France)
- University of Birmingham (United Kingdom)
- FIZ: Fachinformationszentrum (Germany)
- Masarykova univerzita (Czech Republic)
- University of Warsaw, ICM (Poland)
- Édition Diffusion Presse Sciences (France)
- Universidade de Santiago de Compostela: Instituto de Matemáticas (Spain)
- Institute of Mathematics and Informatics, BAS (Bulgaria)
- Matematický ústav AV ČR (Czech Republic)
- Ionian University (Greece)
- Made Media Ltd (United Kingdom)
- Centre national de la recherche scientifique (France)

Current Associated Partners

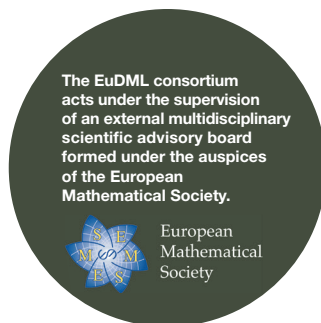
- European Mathematical Society
- Niedersächsische Staats- und Universitätsbibliothek Göttingen
- BDIM - Biblioteca Digitale Italiana di Matematica

Current list of collections

Digitised Portugaliae Mathematica, NUMDAM, CEDRAM, ELibM, DML-CZ, DML-PL, DML-E, EDP Sciences math. journals, BulDML, HDML, Mathematica journals at GDZ, GDZ Mathematica monographs, GDZ Mathematica multivolume works, RusDML journals, Biblioteca Digitale Italiana di Matematica.

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EuDML makes the mathematics literature published in Europe available online, in the form of an enduring digital collection, developed and maintained by a network of institutions.”



This being partly funded by the CIP COMPETITIVENESS AND INNOVATION FRAMEWORK PROGRAMME (ICT PSP Digital Libraries)



www.eudml.org

**Making mathematics
literature published
in Europe
available online**

The project

EuDML is a project running from February 2010 to January 2013 partly funded by the European Union under the EC Competitiveness and Innovation Framework Programme – Information and Communications Technologies Policy Support Programme, Objective 2.4: Open Access to Scientific Information.

The project's aim is to greatly facilitate access to a European-wide collection of digital mathematical content, thereby promoting and supporting its use and exploitation.

It will do this by considerably enhancing the quality of that content by capturing new metadata and augmenting, refining and merging existing metadata, as well as providing sophisticated added-value services to the content.

Why?

Mathematics is entirely dependant upon accessibility to the published literature. It relies on the validity and availability of previous knowledge.

The clear policy of EuDML is that all digital mathematical literature should be preserved through a network of academic libraries, enforcing eventual open access to everyone.

This is the policy endorsed by the International Mathematical Union as described in **"Best current practices: Recommendations on electronic information communication"**.



Content providers

EuDML is designing and building a collaborative digital library service that is collating currently distributed content from the diversity of its providers. This is achieved by implementing a single-access platform for heterogeneous and multilingual collections.

The network of documents is being constructed by merging and augmenting the information available about each document within the available collections. These documents and their references are then matched across the entire library.

In return for this added value, the rights holders agree to a moving wall policy, securing eventual open access to their full texts.

We make continual efforts to enrich the EuDML cooperation network; we have contact with other European digital libraries beyond that of the partners and collections defined at the project outset — BDIM (Biblioteca Digitale Italiana di Matematica) became our associated partner at the beginning of our third year.

At present, discussions are ongoing with potential partners in Serbia and Russia.

Publishers and commercial partners also have a role, EDP Sciences (Édition Diffusion Presse Sciences) has been an EuDML consortium partner since the beginning of the project and we aim to engage with other organisations in similar cooperations.

EuDML Design and Software

As a Mathematical Library, EuDML has been developed with a specific focus on mathematical content; this means not only the proper handling of the mathematics in publications, but also the development of specific tools created to support mathematicians in their work.

EuDML software provides for example, the capability of intelligent formula searches and a rich accessibility toolkit, delivering true support of mathematical expressions to disabled people.

The collected corpus is not only interesting for readers, but also for both scientists analyzing data and other systems.

EuDML will soon deliver a complex API suitable for machine clients, which will allow them to use all EuDML services directly.

EuDML has been creating a unique software toolset dedicated to processing mathematical documents. EuDML intends to offer software as open source, ensuring open access at

the end of the project and providing a valuable base for future developers and other DMLs.

These three years of the EuDML project are just the starting point of a longer journey; our aim is a robust and sustainable system that is able to include future developments; EuDML has been designed it to be extensible, ensuring that whenever an opportunity to integrate a new technique of improving the data arises, EuDML will be ready to adopt it for the benefits of our users.