

Visual Browser 4 Math

Use Cases

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*Eu*DML

The EUROPEAN DIGITAL
MATHEMATICS LIBRARY

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DML-CZ

DML-CZ: vast amount of data:

28,000 articles in 11 journals, 5 proceedings series and 28 monographs

browsing?

searching!

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DML-CZ

Search

Search Scope:	<input type="text" value="All of DML-CZ"/>
Full Text Search:	<input type="text" value="Došlý"/>
<input type="button" value="Go"/>	

Your query "Došlý" produced 41 results.

Search Results

Now showing items 1-30 of 41

[Next Page](#)

[1](#) [2](#)

DOŠLÝ, ONDŘEJ: [Representation of solutions of general linear differential systems of the second order](#). (English). Czechoslovak Mathematical Journal, vol. 35 (1985), issue 3, pp. 444-454

DOŠLÝ, ONDŘEJ; FIEDLER, FRANK: [A remark on Nehari-type oscillation criteria for self-adjoint linear differential equations](#). (English). Commentationes Mathematicae Universitatis Carolinae, vol. 32 (1991), issue 3, pp. 447-462

DOŠLÁ, ZUZANA; DOŠLÝ, ONDŘEJ: [Singular quadratic functionals of one dependent variable](#). (English). Commentationes Mathematicae Universitatis Carolinae, vol. 36 (1995), issue 2, pp. 219-237

DOŠLÝ, ONDŘEJ: [Sixty years of professor František Neuman](#). (English). Czechoslovak Mathematical Journal, vol. 48 (1998), issue 1, pp. 177-183

Visualization

What to display?

Relationships!

- structural (e.g. article in serial)
- semantic (e.g. classification of articles)
- mixed (e.g. author of articles)

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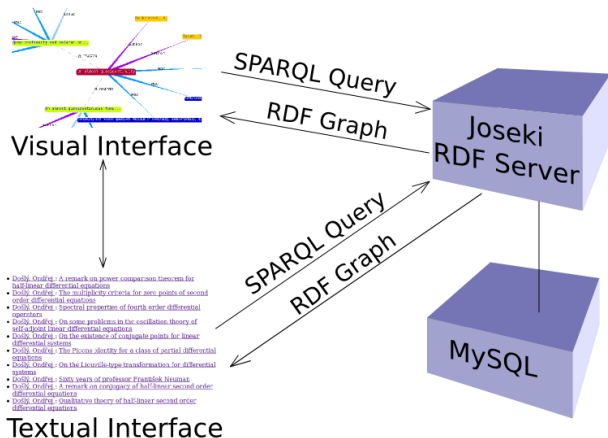
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Architecture



Use Case

- **Goal:** find methods similar to Newton's method
- **Actors:** student, teacher
- **Basic course of events:**
 - ① teacher asks student to find methods similar to Newton's method
 - ② student searches in DML-GZ
 - ③ student obtains a list of methods

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Use Case: Searching within the Traditional Interface

- Search “Newton’s method”
fulltext returns 7,911 items
- Search “Newton’s method similar”
fulltext returns 11,072 items
- Advanced Search “Newton’s method similar”
search in titles returns 879 items

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Use Case: Searching within the Visual Interface

- Search “Newton’s method”
- Click on similar articles
- Click on articles of a particular author
- Click on MSC¹ or keywords

¹Mathematics Subject Classification

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Conclusion

Visual Interface
is a
helpful alternative
to the traditional interface
in cases
we do not know
what we are looking for
exactly