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NEW ZBMATH EDITOR-IN-CHIEF APPOINTED

With the term of Gert-Martin Greuel as Editor-in Chief ending at the end of 2015, the editorial institutions of zBMATH – the European Mathematical Society, FIZ Karlsruhe, and the Heidelberg Academy – have named Prof. Klaus Hulek, of the Leibniz University of Hanover, as the new Editor-in-Chief of zBMATH. He will take over his responsibilities in April 2016.

The four years of Gert-Martin Greuel's service as Editor-in-Chief have been marked by a large number developments, of which several have been addressed regularly in this newsletter. We would like to use this occasion to thank Gert-Martin once more for his distinguished efforts during his term.

AUTHOR PROFILES AND FEEDBACK TOOL

Since the last newsletter, several new features have been introduced to the zBMATH author profiles. First of all, we would like to point out that we highly appreciate the feedback we have received via the author disambiguation interface (available at <https://zbmath.org/author-profile/>, or via the Edit-Button at the profiles) to approve or correct document assignments.

Improved algorithms, feedback, and manual curation has helped us to reduce the number of ambiguous authorship assignments to about 4% (including the challenging tasks of correctly assigning historical 19th century papers, Chinese, or Russian publications). Further enhancements are expected to be reached via a recently started project with the Leibniz Center for Informatics (Dagstuhl) and the Heidelberg Institute for Theoretical Studies (HITS).

On the other hand, with now more than 16 million reference data in zBMATH (which means that references are now available for about one third of the recent publications, a share that will still significantly increase), we felt that there is a sufficient basis to enlarge the author profiles by a citation profile in 2015. The main emphasis here is not on the mere number of citations, but on an analysis revealing citing authors, citing journals, citing MSC subjects and the distribution at the timeline.

Furthermore, a variety of external identifiers can now be integrated into the profiles. Currently, already many links to,

e.g., the Math Genealogy Project, ORCID, Wikipedia, Math-Net.ru, or homepages have been integrated. Please note that this additional information can also be added and maintained via the mentioned author disambiguation interface.

NEW FEATURES FOR FORMULA AND DOCUMENT SEARCH

It is often the case that users want to find all possible articles related to a certain formula. Sometimes the title or the keywords are not enough to obtain all the items concerning one subject. A current and recent feature in zBMATH is the LaTeX-based formula search, which employs a search engine for MATHML formulae originating from a joint project with the Jacobs University Bremen. Aside from the formula facet, there is now another option in the structured search which allows a free combination of formula search with other query types. Formula queries can also be refined by the other filters. Please feel free to check our examples, especially to learn how variables can be used to eliminate ambiguities.

For document lists, results can now be displayed in various formats, like HTML, BibTeX, PDF, or XML, which can be chosen as an option in the "display marked items" feature. Furthermore, in addition to full text links at publishers or digital mathematical libraries like EuDML, we have also added links to arXiv preprint versions which are currently available for more than 120,000 publications in the database.

PUBLICATIONS CONCERNING ZBMATH

More detailed information on these ongoing developments can also be obtained via our column in the quarterly appearing Newsletter of the European Mathematical Society, available at

http://www.ems-ph.org/journals/all_issues.php?issn=1027-488X

Recent contributions feature the developments in the author and citation profiles, the connection of zbMATH with digital libraries, and a tribute to the zbMATH reviewer community.

REVIEWS AND REVIEWERS

Even though today the access to the full text of an article is easier than it was in former times, the reviews remain an essential service of zbMATH for the mathematical commu-

nity, especially if they provide additional information, possibly critical, going beyond the abstract of a paper. We are very grateful to our reviewers for their responsible work.

Handling about 120,000 documents annually we are always looking for suggestions for new reviewers. Therefore we would be grateful if you could name us some potential candidates, who might be colleagues, coauthors, postdocs or doctoral candidates of yours. New reviewers may volunteer via the interface

<https://zbmath.org/become-a-reviewer/>,

but it is also sufficient to send the names and the affiliation of the recommended persons to editor@zentralblatt-math.org.

Many thanks for helping us maintain a high-quality reviewer pool for zbMATH!