Third International Conference on Mathematics Textbook Research and Development

16–19 September 2019
Paderborn, Germany

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First Announcement
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About

Textbooks are vital curriculum resources for teaching and learning mathematics in classrooms around the world. They play an integral role in defining mathematics as a school subject, shaping the learning opportunities for students by teachers, and supporting teachers’ learning and professional development. Textbook content, development and use have always been important themes in mathematics education research. Recent years have seen an increasing international interest in textbook research as well as theoretically driven and empirically grounded textbook development. Developing an understanding of textbooks and their development and of how they are incorporated into teachers’ professional work, how they may promote curricular reforms, how they support students’ learning have become important endeavors in the field. Furthermore, the increased availability of digital textbooks entails deep changes in textbook design, content, and use and thus even amplifies the need of understanding the role of textbooks in teaching and learning mathematics.

In view of this trend, it is our pleasure continue the successful series that started in 2014 with the first ICMT held in Southampton (UK) and the second in 2017 in Rio de Janeiro (Brazil) and to announce the Third International Conference on Mathematics Textbook Research and Development (ICMT 3) to be held in Paderborn (Germany) from September 16 to 19, 2019.

Conference Themes

The conference is about all issues related to the development, content and use of mathematics textbooks from kindergarten to university level in and out of school settings. The themes of the conference relate to historical perspectives, recent developments as well as future directions.

The themes of the conference are:

- **Development of (digital-)textbooks** (e.g. concepts, task design, learning-teaching-trajectories, methodological approaches, quality, design-based research)
- **Content and its presentation in (digital-)textbooks**
- **Use of (digital-)textbooks** (by students, teachers, parents, …) and related issues (e.g. student achievement, teacher professional development, interaction with other resources)
- **Historical perspectives on textbooks**
- **Comparative studies of (digital-)textbooks**
- **Textbook and policy** (e.g. governmental educational policy, distribution and market strategies)
- **Research on (digital-)textbooks** (e.g. issues, methods, future directions)
Paderborn is a dynamic city with a history of 1,200 years. Today, the city counts approx. 150,000 citizens. Walking through Paderborn is like walking through the centuries. The cityscape unmistakably mirrors the city’s eventful history. Among the many interesting landmarks are, for instance, the city hall, the reconstructed Imperial Palace, the Cathedral and the (more than 200) springs of the Pader—Germany’s shortest river. The center contains more than twenty historical buildings of all architectural epochs.

For more information visit [www.paderborn.de](http://www.paderborn.de).

All scientific activities of the conference will take place at the campus of Paderborn University. The university has five faculties (Faculty of Arts and Humanities, Faculty of Business Administration and Economics, Faculty of Science, Faculty of Mechanical Engineering, Faculty of Computer Science, Electrical Engineering and Mathematics) with more than 20,000 students. For more information visit [www.uni-paderborn.de](http://www.uni-paderborn.de).

Paderborn University offers 10 different programs in mathematics education, which enroll about 2000 students. With the Center for Higher Mathematics Education (khdm) and the German Center for Mathematics Teacher Education (DZLM) it contains two influential institutions in mathematics education. With altogether eight professors in mathematics education Paderborn University hosts one of the largest research groups in mathematics education in Germany.
ICMT3 Conference Secretariat

For any questions regarding ICMT3 contact the conference secretariat at

imct3@math.upb.de.

Committees of ICMT3

International Program Committee (IPC)

- Sebastian Rezat (Paderborn University, Germany) – Chair
- Lianghuo Fan (East China Normal University, China; University of Southampton, UK) – Chair
- Mathias Hattermann (Paderborn University, Germany) – Chair of LOC
- Marcelo C. Borba (São Paulo State University, UNESP, Brazil)
- Victor Giraldo (Universidade Federal do Rio de Janeiro, Brazil)
- Marja van den Heuvel-Panhuizen (Utrecht University, Netherlands; Nord University, Norway)
- Gabriele Kaiser (University of Hamburg, Germany; Australian Catholic University, Brisbane)
- Moneoang Leshota (University of the Witwatersrand, South Africa)
- Vilma Mesa (University of Michigan, USA)
- Kay O’Halloran (Curtin University, Australia)
- Magnus Österholm (Umeå University, Sweden; Mid Sweden University, Sweden)
- Birgit Pepin (Eindhoven University of Technology, The Netherlands)
- Johan Pritz (Uppsala University, Sweden)
- Chunxia Qi (Beijing Normal University, China)
- Janine Remillard (University of Pennsylvania, USA)
- Rudolf Sträßer (University of Giessen, Germany)
- Luc Trouche (Ecole Normale Supérieure de Lyon, France)
- Michal Yerushalmy (University of Haifa, Israel)

Local Organizing Committee (LOC)

- Mathias Hattermann – Chair
- Sebastian Rezat
- Roland Bender
- Dorothea Backe-Neuwald
- Kordula Knapstein
- Sara Malik
- Jan Schumacher
- Gerda Werth
- Holger Wuschke
Scientific Program and Submission Procedure

**Plenaries**
The scientific program comprises four 60-minute long plenary lectures by well-known invited speakers.

**Symposia**
Symposia are devoted to a specific theme or issue of textbook research. They are organized by 2 – 3 researchers. Up to six hours divided into three blocks are available for a symposium. The organizers of a symposium are responsible for the organization within the symposium in terms of scientific formats, speakers, and schedule. Contributions to symposia might be personally invited by the organizers or via an open call on the conference website.

**Submission procedure**
A proposal for a symposium comprises title, abstract (1,500 – 3,000 characters), and the names, affiliations, and email addresses of the organizers of the symposium. The proposal has to be submitted via the conference web site. Symposia will be approved by the IPC. The deadline for the submissions of proposals for symposia is 30 October 2018.

**Workshops**
A workshop provides the opportunity for joint work with the participants on a specific theme or issue related to textbook development, use, or research or with particular methods. Workshops are organized by 1 – 3 moderators.

One time slot of 120 minutes is available for a workshop at the conference.

**Submission procedure**
A proposal for a workshop comprises title, abstract (1,500 – 3,000 characters), and the names, affiliations, and email addresses of the organizers of the workshop. Proposals for workshops have to be submitted via the conference web site. Workshops will be approved by the IPC. The deadline for the submissions of proposals for workshops is 31 January 2019.

**Oral Communications**
Oral communications present empirical studies, theoretical essays or methodological contributions. They are not restricted to completed research; they may also report from ongoing studies. Oral communications relate to one or more themes of the conference. Accordingly, they are organized into 7 tracks:
1) **Development of (digital-)textbooks** (e.g. concepts, task design, learning-teaching-trajectories, methodological approaches, quality, design-based research)

2) **Content and its presentation in (digital-)textbooks**

3) **Use of (digital-)textbooks** (by students, teachers, parents, ...) and **related issues** (e.g. student achievement, teacher professional development, interaction with other resources)

4) **Historical perspectives on textbooks**

5) **Comparative studies of (digital-)textbooks**

6) **Textbook and policy** (e.g. governmental educational policy, distribution and market strategies)

7) **Research on (digital-)textbooks** (e.g. issues, methods, future directions)

A time slot of 25 minutes is devoted to an oral communication. The time is divided into 15 minutes presentation and 10 minutes discussion.

A proposal for an oral communication comprises at least a rationale for the research or theoretical or methodological contribution, a theoretical framework, an explication of methods, and a statement of results. It links to related literature in the field.

**Submission and reviewing procedure**

Proposals for oral communications are to be written in English. Authors are required to submit title and abstract of the proposal in a first step via the conference website [icmt3.math.upb.de](http://icmt3.math.upb.de). After the title and abstract are approved by the LOC (within three days approx.), authors can submit a paper of maximum six pages, which has to follow the formatting guidelines provided by the conference organizers. A template and guidelines for proposals are available at [icmt3.math.upb.de](http://icmt3.math.upb.de).

Proposals for oral communications must be submitted as a MS-Word file via the conference website [icmt3.math.upb.de](http://icmt3.math.upb.de). The deadline for the submission of proposals for oral communications is **31 January 2019**.

Each proposal for an oral communication is reviewed by two other authors who submitted a proposal. Proposals that do not conform with the formatting guidelines, or exceed the maximum number of pages may be rejected without further consideration or peer review. Authors will have the option to revise their submission once before the final decision about acceptance is made by the IPC.

Each author of an oral communication agrees to review up to two other proposals. Guidelines for review are available at the conference website ([icmt3.math.upb.de](http://icmt3.math.upb.de)). Reviews must be submitted via the conference website.
Poster
The conference program comprises an individual slot of two hours for poster presentations. A poster relates to one or more themes of the conference.

A proposal for a poster comprises at least a rationale for the research, a theoretical framework, an explication of methods, and a statement of results. It links to related literature in the field.

Submission and reviewing procedure
Proposals for posters are to be written in English. Authors are required to submit title and abstract of the proposal in a first step. After the title and abstract are approved by the chair of the IPC (within three days approx.), authors can submit a poster proposal, which may be up to two pages long. It has to follow the formatting guidelines provided by the conference organizers. A template and guidelines for proposals are available at icmt3.math.upb.de.

Proposals for posters must be submitted as a MS-Word file via the conference website icmt3.math.upb.de.

Each poster proposal is reviewed by two other authors who submitted a proposal. Each author of a poster agrees to review up to two other proposals. The decision about the acceptance of posters is made by the IPC chairs. The deadline for the submissions of proposals for posters is 31 January 2019.

Further Modalities of Submission and Presentation
Each author is allowed to submit up to one proposal of each type (symposium, workshop, oral communication, poster), as the presenting author. Each conference participant may have his/her name on not more than four conference contributions in total.

The official conference language is English. The language for all types of submissions is English. Accepted contributions must be presented in English.
Key dates

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<tr>
<th>Event</th>
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<td>1 March 2019</td>
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<td>Symposia</td>
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<td>Call for Abstracts</td>
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<tr>
<td>Oral Communications, Workshops, Posters</td>
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<tr>
<td>Call for Papers</td>
<td>15 November 2018</td>
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<td>1st Review</td>
<td>20 February 2019</td>
<td>30 March 2019</td>
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<td>Revision of the paper</td>
<td>15 April 2019</td>
<td>15 May 2019</td>
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<tr>
<td>2nd Review</td>
<td>20 May 2019</td>
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<tr>
<td>Final Decision about the Acceptance of the Paper:</td>
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Travel Information

Paderborn is located almost in the center of Germany. Neighboring cities are Bielefeld, Dortmund, Hannover and Kassel. Its domestic airport connects Paderborn to the International Airports in Frankfurt a. M. and Munich.

Paderborn is accessible via train from all other large European cities. Train distances to other major European cities are as follows:
Berlin: 3.5h; Cologne: 2.5h; Amsterdam: 5.5h; Paris 7h; Vienna 9h; and Zurich: 7h