NORMA 24 - first announcement

NORMA 24, The Tenth Nordic Conference on Mathematics Education will take place in Denmark from the 4th to the 7th of June 2024 at Aarhus University, Campus Emdrup in Copenhagen.

NORMA 24 is hosted by NCUM, the national centre for developing mathematics teaching, and Danish School of Education, Aarhus University.

The submission process for NORMA 24 will be open before 1st of November 2023 at NORMA 24 webpage. Early bird registration will be available until 30th of April 2024 at 3.000 DKK. The ordinary registration fee will be 3.500 DKK and open until 15th of May 2024.

The NORMA conferences are organized in collaboration with NoRME- the Nordic Society for Research in Mathematics Education, https://sites.google.com/view/norme/home, NoRME is open for membership from national societies for research in mathematics education in the Nordic and Baltic countries.

The NORMA conferences offer forum for discussions and constructive interactions among researchers, teachers, teacher educators, graduate students and others interested in mathematics education research in the Nordic context. NORMA are small-scale conferences that emphasize interaction between participants and interplay between scientific and social activities. NORMA 24 will have a limit of 320 participants. The conference language is English and all presentations will be in English. The scientific program and the review process are organized and managed by the following international program committee (IPC) for NORMA 24:

Chairs:
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The theme of NORMA 24 is:

Interplay between research and teaching practice in mathematics education

The theme reflects on the one hand a strong tradition in mathematics education research in the Nordic countries for practicing and reflecting on the interplay between the development of teaching practices and of research (Jaworski, 2006; Grevholm, 2021). On the other hand, the choice of the theme reflects a pending need in the Nordic countries for research-based developments of teaching practice and of developments of research that can support this. This applies, especially in a time with new technological innovations such as artificial intelligence, but also the recognition that there is no straight forward way for supporting such developments. Therefore, with this conference theme, we aim to consider the complex relationship between the development of practice and research as part of our field of research.

NORMA 24 aims to illuminate and investigate the interplay between research and practice with regard to all educational levels from preschool (kindergarten) to mathematics teacher education or other tertiary level mathematic education. We welcome presentations that address the theme focusing on one or more of these educational levels.

We aim to illuminate the theme through a variety of different types of presentations ranging from smaller or larger projects that seek to develop teaching practice based on methods and theories from research, to research that uses and develops theories or methods based on teaching practice. The central relevance criterion is that the relationship between the development of practice and of research is made explicit and subject of reflection.

We welcome all presentations within the theme of the conference. The following categories are for inspiration:
- Studies on collaboration between teacher(s) and researcher(s)
- Design-based research projects
- The use of particular research-based methods or approaches in teaching - for example Lesson studies and Inquiry based mathematics education
- Professional development of pedagogues or teachers in small or large scale projects or other interventions studies
- Classroom observation studies
- Assessment studies
- The theory - practice interplay in teacher education
- Research-based curriculum design
- Theoretical studies on the theme

We also welcome joint presentations and co-authored papers by teachers and researchers.

The scientific program

The scientific program will illuminate the theme through four planetary lectures by prominent researchers in mathematics education and through contributions from the participants in the following five formats. For contributions to be considered for review, the following six elements must be addressed (even if the results, conclusions, or findings are not complete or final at the time of the submission):

a. Objective/s or purpose/s of the research
b. Perspective(s) or theoretical framework
c. Methods, techniques, or modes of inquiry
d. Data sources, evidence, objects, or materials
e. Results and/or substantiated conclusions or warrants for arguments/points of view
f. Scientific or scholarly significance of the study or work

1. **Regular Papers** to be presented in parallel sessions (40 minutes: 20 minutes for presentation and 20 minutes for discussion). Format for submission: 8-page papers to be peer reviewed and published in the conference proceedings.

2. **Symposia** to be presented in parallel sessions (90 minutes). A symposium provides an opportunity to examine specific research issues, problems, or topics from a variety of perspectives and in relation to the common theme. A symposium must have a minimum of three and a maximum of six presenters. These limits are in addition to the chair. A submission for a symposium much be handed in by a group of three to six participants. Format for submission: a 1-page summary of the symposium and three to six symposium papers (each of

max 8 pages) to be peer reviewed before the conference. Symposia papers can be submitted for the conference proceedings through the same review process as for Regular Papers (see below 'How to contribute').

3. **Working Groups** on topics relevant for a conference on Nordic Mathematics Education. The working groups will be allotted 90 minutes in parallel sessions. These sessions should be genuinely interactive dealing with one or more research questions the organizer(s) of the working group wish to discuss and work on with other participants in the conference. Format for submission: 2-page proposal to be peer reviewed.

4. **Short Communications** to be presented in parallel sessions (20 minutes: 10 minutes for presentation and 10 minutes for discussion). This format is meant to present ongoing or tentative research. Format for submission: 1-page abstract to be peer reviewed.

5. **Poster Presentations** to be presented in the poster session. The poster session is 1½ hour and the authors are expected to discuss their poster with participants during the session. This format is meant to present ongoing or tentative research. Format for submission: 1 page abstract to be peer reviewed. Screens for poster display in A1 format will be available.

Submissions and the review process

All submissions should be within the theme of the conference and communicated in English. Submissions can only take place through the conference website before the stipulated deadline for each format (see below). All submissions fulfilling the format requirements will be reviewed and receive feedback before the deadlines given below.

You are allowed to submit up to one proposal of each type, with the exception that you can only submit either a Regular Paper or a Short Communication, but not both. You are allowed to be presenting author of either a Regular Paper (including those bundled within a Symposia) or a Short Communication. Further, you can be presenting author of a Poster Presentation and Working Group in addition. Note, that it is not allowed to change the presenting author after the review process.
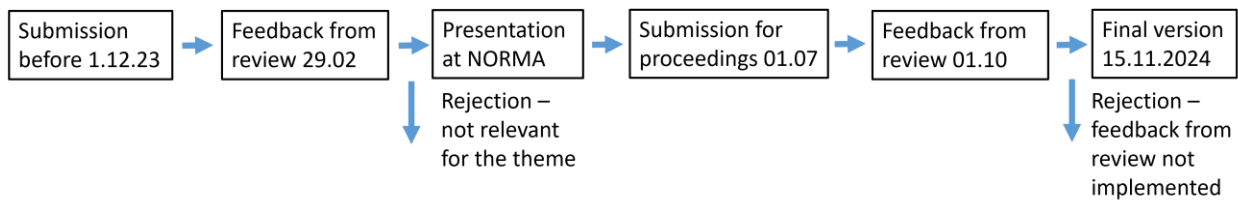
All contributions go through a review process. If you submit a Regular Paper or a Symposia-paper, the review process is double blinded with at least two reviewers and you will be asked to act as reviewers for other papers. You may be asked to review up to two papers. Guidelines for contributions and for the review process can be found on the conference website. Working Group proposals, Short Communications and Posters are reviewed by the program committee.

All submissions, which are accepted for presentation at the Norma24 conference, will be made available through the Norma24 web page before the conference. Regular Papers and Symposia, accepted for presentation at the Norma24 conference, need to go through a second peer-review process in order to be considered for publication in the proceedings of the Norma24 conference. The conference proceedings will be published in the SMDF series (http://matematikdidaktik.org/index.php/madifs-skriftserie). Regular Papers and Symposia published in the conference proceedings will count as a scientific publication in the academic credit systems. The deadline for the second peer review will be announced during the conference. Authors will be given the opportunity to improve their papers before this second review. Information about this opportunity will be provided during the conference.

Submission of Regular Papers

Submit through the conference website *no later than* 1st of December 2023. Following the review process, by the 29th of February 2024 you will be sent a decision about whether your paper has been accepted. In rare cases, acceptance may be conditional on specific minor revisions to your paper, in

which case you should return the revised paper to the conference committee by April 1, 2024. After the conference, you are given the opportunity subject to an additional review process to publish your paper in the conference proceedings. The review process for Regular Papers and Symposia Papers to be publish in the conference proceedings will be as described in the following flow chart:

Submission before 1.12.23	→	Feedback from review 29.02	→	Presentation at NORMA	→	Submission for proceedings 01.07	→	Feedback from review 01.10	→	Final version 15.11.2024

Below "Presentation at NORMA": ↓ Rejection – not relevant for the theme

Below "Final version 15.11.2024": ↓ Rejection – feedback from review not implemented

Submissions for Regular Papers must be in accordance with the following format criteria:

- Use the CERME11 template, which is to be found at the Norma24 website [Link]
- Restrict your paper to a maximum of 8 pages, including references, figures and appendices
- Indicate up to five key-words for the paper
- Give references in the APA 7 style

Submission of Symposia proposals

Submit through the conference website *no later than* December 1, 2023. Please follow the guidance given below. Following the review process, by February 29, 2024 you will be sent a decision about whether your proposal has been accepted. In rare cases acceptance may be conditional on specific minor revisions, in which case you should return the revised proposal and or revised versions on the symposium papers to the PC by the 1st of April 2024. After the Norma24 conference, the Symposia and their related papers can be published in the conference proceedings subject to the review process described above.

The format of a proposal for a Symposium must be as follows: The purpose of Symposia is to provide opportunity for researchers to discuss any topics of shared interest related of course to the conference theme. A Symposium can be built, for example, around a shared theoretical framework, a shared research topic or a shared research method.

- The Symposia submission consists of a Symposia session summary and three to six symposia papers.
- The Symposia session summary of no more than 1 page addresses the following session submission elements: Symposia title, objectives of the session, overview of the presentation, scholarly or scientific significance, structure of the session.

The format and the review process (see the above flow chart) of Symposia papers are the same as for Regular Papers:

- Use the CERME template that can be found on the Norma24 webpage
- Each Symposia paper of no more than 8 pages (including references, figures and appendices) can be used to address the elements of a research or scholarly paper/presentation. Symposia papers may be significantly shorter than 8 pages when appropriate. For example, commentary papers can be quite short. You may bring multiple copies of a longer version for distribution at the Conference.
- Indicate up to five key-words for the paper
- Give references in the APA 7 style
- Even if a Symposium is not accepted for the conference, the organizers may accept individual Symposia papers to be presented as a Regular Paper.

Submission of a proposal for a Working Group

Submit through the conference website no later than December 15, 2023. The topics for the Working Groups should be relevant for the conference theme. The Working Groups will be allotted 90 minutes in parallel sessions. These sessions should be genuinely interactive dealing with one or more research questions the organiser(s) of the Working Group wish to discuss and work on with other participants in the conference, possibly to initiate future collaboration. Following the review process, by February 29, 2024 you will be sent a decision about whether your proposal has been accepted.

The format of Working Group proposals must be as follows.

- Restrict your proposal to a maximum of 2 pages. The proposal must include a title, a description of the topic for the Working Group and the research question(s) the organizer(s) wish to discuss and a detailed description of organization of the work in the group.
- Use the CERME template that you can find on the Norma24 webpage
- Give references in the APA 7 style.
- After the conference, the organizers of working groups will prepare a 5 page report on the work in the group to be published the conference proceedings. The report should be sent to conference chair by June, 30 2024. The report will be reviewed by the program committee.

Submission of Short Communication

Submit through the conference website no later than December 15, 2023. Short Communications will not be accepted after this date. This format is meant to present ongoing or tentative research. Short Communications will be presented in parallel sessions (20 minutes: 10 minutes for presentation and 10 minutes for discussion). Following the review process, by February 29, 2024 you will be sent a decision about whether your proposal has been accepted. Note, that Short Communication cannot be published in the conference proceedings.

The format of Short Communications must be as follows:

- Write a 1page abstract about your ongoing or tentative research. This text must include a title, a short description of the study, the research question(s) and other issues the author intends to present and discuss at the conference.
- Use the CERME template that you can find on the NORMA24 webpage
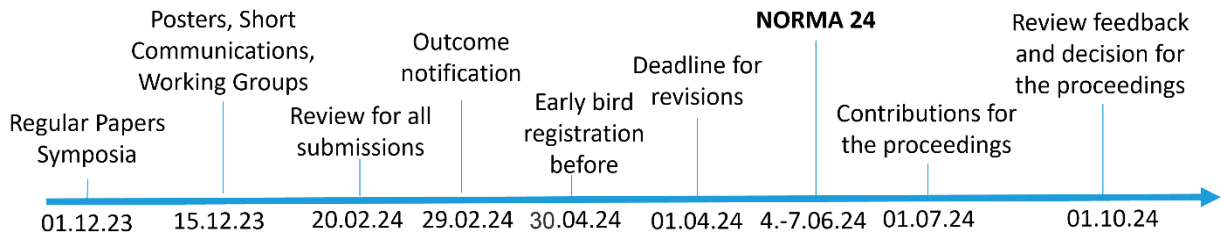- Give references in the APA 7 style.

Submission of a Poster Presentation

Submit through the conference website no later than December 15, 2023. This format is meant to present ongoing or tentative research. Posters Presentations will be displayed in one of the conference main rooms during the day of the poster presentation. Poster presenters will receive detailed instructions early May 2024. Following the review process, by February 29, 2024 you will be sent a decision about whether your proposal has been accepted. Note, that Poster Presentation will not be published in the conference proceedings.

The format of Poster Presentation must be as follows.

- Write a 1-page abstract about your ongoing or tentative research. This text must include a title, a short description of the study, the research question(s) and other issues the author intends to present and discuss at the conference.
- Use the CERME template that you can find on the Norma24 webpage
- Give references in the APA 7 style

Time line for submissions and the review process

References

Jaworski, B. (2006). Theory and practice in mathematics teaching development: Critical inquiry as a mode of learning in teaching. *Journal of mathematics teacher education*, 9(2), 187-211.

Grevholm, B. (2021). Recent Nordic research in mathematics education illustrated by examples from NORMA17. *Mathematics*, 9(8), 803.