



15th International Congress on Mathematical Education

7-14 July 2024 • ICC Sydney, Australia
Come and be counted

Topic Study Group 1.3: Teaching and learning of algebra at secondary and tertiary levels

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Team details

Co-Chairs

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IPC Liaison

Jean-Luc Dorier (University of Geneva, Switzerland)

Overview

This Topic Study Group will bring together congress participants who are interested in research related to the teaching and learning of Algebra at secondary and tertiary levels. This TSG aims to foster discussion of international perspectives, new insights, and research directions through consideration of key themes. We hope to engage a variety of scholars (including early career and established researchers) in high-quality presentations and critical discussions that capture the current state-of-the-art research and identify future research directions.





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Areas of interest

Themes of this TSG include, but are not limited to:

- Task design for algebra (e.g., affordances and constraints of tools and technologies; fostering understanding of algebraic structure; representations; supporting algebraic reasoning, understanding and proof; non-routine problems).
- Knowledge for teaching algebra (e.g., pedagogical content knowledge for teaching algebra; mathematical knowledge for teaching algebra; teaching with technology and tools; connections between secondary and tertiary mathematics).
- Student learning and understanding of algebra (e.g., student conceptions, difficulties, errors, or competencies; transitions between secondary and tertiary; moving from arithmetic to algebraic reasoning; assessing students' understanding and algebraic thinking; use of technologies and tools).

How to make a submission to this Topic Study Group

Submissions for Topic Study Group Papers and proposals for Posters open 28 April 2023 via the official ICME-15 website, icme15.org. The website also contains a timeline of dates for the activity of the Topic Study Groups in the lead up to the Congress.

For questions about this TSG, please contact the Co-Chairs using the email addresses provided.

