



TSG 40 RESEARCH AND DEVELOPMENT ON MATHEMATICS CURRICULUM

The Organizing Team

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Mathematics curriculum and its impact on teaching and learning have received increasing attention around the world. The aim of the Topic Study Group 40 (TSG 40) is to share and discuss the recent results of research and development on mathematics curriculum at all levels, and to identify perspectives for future research and development. Recent mathematics curriculum study have expanded to explore a range of important topics, including policy issues, curriculum development and analysis, and curricular impact on teachers' teaching and students' learning. TSG 40 welcomes researchers, teacher educators, teachers, curriculum developers, test developers, and policy makers with research interests in research and development on mathematics curriculum. We invite both theoretical and empirical research contributions that address one or more of the following topics in the research and development on mathematics curriculum.

Topic 1: Mathematics Curriculum Policy

This topic includes policy issues related to mathematics curriculum in different education systems, and the process of curriculum decision-making, curriculum changes, curriculum policy, and education changes viewed from a historical perspective.

Topic 2: Mathematics Curriculum Development and Analysis

This topic includes curriculum design and development in different education systems; the diverse ideas and practices in curriculum development, textbook design, and changes in curriculum development in different system contexts.

Topic 3: Mathematics Curriculum, Teacher, and Teaching

This topic includes perspectives on the process of improving mathematics education by reform of curriculum and teaching, and the challenges of developing, implementing, and evaluating change in the content objectives and teaching of mathematics.

Topic 4: Mathematics Curriculum and Student Learning

This topic includes curricular impact on students' learning and the challenges of reforming the curriculum in order to improve students' learning.

TSG 40 contributions will include regular presentations of invited and selected papers, short presentations of selected papers, and posters.