

CERME 11: Thematic Working Group 05 Probability and Statistics Education

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Scope and focus of the Thematic Working Group

Statistical and probabilistic thinking and reasoning are key skills for the citizen who needs to interpret information presented through the media or the workplace, to contribute to the knowledge society and to interpret scholarly papers. An important challenge is to develop statistically literate citizens and meaningful use of statistical tools. Towards this goal, recent developments in technology can provide various opportunities to support dynamic exploration of data and experimentation with probabilistic models as generators of data as well as in exploratory data analysis or informal statistical inference. However, professional development of teachers is crucial to keep up with such developments. WG 5 positions itself within research that is fundamentally important at a time when new developments provide new stimulus for growth in the body of research on probability and statistics education.

Call for papers and poster proposals

We will be particularly interested in theoretical, empirical or design-based research papers (10 pages maximum) and poster proposals (2 pages) that address one or more of the following themes:

- The nature and development of probabilistic and statistical thinking and its relationship to other types of mathematical thinking, including the interface between probabilistic and statistical thinking, such as in modelling, informal statistical inference or data exploration.
- Dispositions, attitudes and beliefs of students and adults towards probabilistic and statistical thinking
- The role of context in statistics
- The professional development of mathematics teachers to teach statistics and probability.
- The role of computer-based tools on the learning and teaching of probability and statistics.
- The elaboration of theoretical frameworks that may provide insightful models for interpreting evidence from research on probability and statistics education.
- Practices of using big data and analytics in K-12 education.
- Assessment in statistics education.

Papers and poster proposals should use the CERME template, and conform to the guidelines at the [guidelines website](#). CERME 11 uses a [submission website](#). The authors submit the initial version of their paper on the website (uploading it both as a .doc and a .pdf file, and providing the required information, in particular the TWG number).

Reviews and decisions

Each paper will be peer-reviewed by two persons from among those who submit papers to this TWG. Please expect to be asked to review up to two papers yourself. The group leaders will decide about the acceptance of posters.

Important dates

- **15th July 2018:** Early bird submission (please refer to the [early bird website](#))
- **15th September 2018:** Initial submission by authors in the submission system.
- **3rd November 2018:** Initial decisions on papers and posters sent.
- **24th November 2018:** The authors submit a revised version if needed.
- **5th December 2018:** Final decisions sent.
- **12th December 2018:** Final version uploaded.
- **13th January 2019:** Papers available on CERME 11 website.