



Contribution ID: 42

Type: Zamestnanci didaktika

Innovative Approaches to Teaching Probability in Secondary Schools

Wednesday, November 26, 2025 3:18PM (1 minute)

In this paper, we present innovative approaches to teaching probability that were developed as part of the KEGA 037UK-4/2024 project Innovative learning technologies in the preparation of future mathematics teachers and the project Digital Transformation of Education and Schools (DiTEdu, code ITMS2014+: 401402DVR6). These approaches aim to foster a deep conceptual understanding of probabilistic concepts through their gradual constructivist development, with an emphasis on visualization, manipulative activities, and experimentation. The topics covered include conditional probability, geometric probability, and expected value.

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Session Classification: Poster session + káva: prezentácie vedeckých výsledkov FMFI UK didaktika

Track Classification: Poster session + káva: prezentácie vedeckých výsledkov FMFI UK Zamestnanci: Poster session + káva: prezentácie vedeckých výsledkov FMFI UK Zamestnanci Didaktika