

## Special Issue

# Challenges and Trends in Technology-Enhanced Learning

### Message from the Guest Editors

The advancement of information and communication technologies and the recent emergence of intelligent technologies have increased their adoption in education. The current research innovations in intelligent educational systems and tools, artificial intelligence, educational video games, gamification, virtual and augmented reality, and learning analytics enable engaging, interactive, and practical-oriented teaching, thus benefiting both students and instructors. Furthermore, the growing application of contemporary STEM/STEAM teaching methods motivates students to develop essential skills and competencies for the 21st century. However, while technology has the potential to enhance educational experiences and increase learning performance dramatically, ICT tools should be applied appropriately, considering the teaching approach and goals, and for a reasonable time to ensure compliance with the recommendations for the maximum permissible screen time suitable for adolescents. Therefore, we are interested in articles investigating the various applications, challenges, and future directions of technologies in education and their impact.

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### Guest Editors

Dr. Valentina Terzieva

Dr. Elena Paunova-Hubenova

Prof. Dr. Boyan Bontchev

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### Deadline for manuscript submissions

20 December 2025



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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