Special Issue

STEM Education for Real-World Problem Solving: Innovations in Curriculum, Pedagogy, and Practice

Message from the Guest Editor

This Special Issue explores how STEM education can effectively equip students to engage with real-world challenges through applied knowledge, critical thinking, and collaborative problem-solving. As global and local communities face increasingly complex issues. STEM education plays a crucial role in preparing the next generation of innovators and professionals.

We invite contributions that highlight innovative instructional strategies, course designs, and learning environments that connect STEM content to real-world applications. Submissions may include empirical research, case studies, or practical examples that demonstrate how STEM education fosters skills such as decision-making, adaptability, and creative problem-solving. The goal of this Special Issue is to showcase an approaches that move beyond traditional classroom teaching to engage learners in meaningful, applied experiences.

We welcome perspectives from K–12, higher education, informal learning, and industry partnerships. Submissions should reflect how STEM education aligns with current and emerging global needs, enabling students to apply their learning to solve authentic problems.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

From its first issue in 2011, *Education Sciences* (ISSN 2227-7102) has grown as a scholarly international open access journal. Its aim remains to publish extended full-length research papers that have the scope to substantively address current issues in education. As a member of the Committee on Publication Ethics (COPE), our goal has been to disseminate high quality research. Our publisher, MDPI, takes the responsibility to enforce a rigorous double-blind peer-review together with strict ethical policies and standards to ensure to add high quality scientific works to the field of scholarly publication.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 29.2 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).