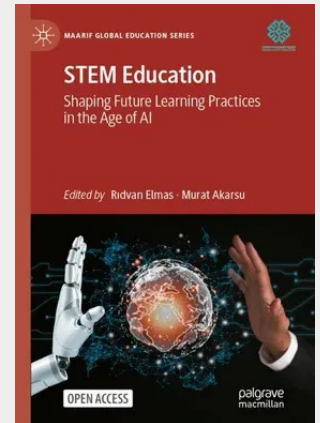


STEM Education

Shaping Future Learning Practices in the Age of AI

This open-access volume explores how Artificial Intelligence (AI) is transforming STEM education and reshaping teaching and learning for today's world. AI is no longer a distant promise; it is actively redefining classrooms, challenging educators to rethink pedagogy, curriculum, and student engagement. Focusing on the powerful intersection of AI and STEM, the book showcases innovative learning strategies, future-ready curriculum models, and cutting-edge approaches to teacher professional development. It demonstrates how AI can strengthen critical thinking, creativity, collaboration, and ethical awareness while offering practical solutions to real-world educational challenges. Combining advanced AI tools with evidence-based instructional design, the volume provides actionable insights that inspire educators, researchers, teachers, and learners. With its inclusive, forward-looking perspective, this book serves as an essential guide for educators, policymakers, and researchers seeking to modernize STEM education and prepare students for an AI-shaped future.

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