

1. Record Nr.	UNINA9911007251903321
Titolo	Uses of artificial intelligence in STEM education // edited by Xiaoming Zhai, AI4STEM Education Center, University of Georgia, Joseph Krajcik, CREATE for STEM Institute, Michigan State University
Pubbl/distr/stampa	Oxford University Press
ISBN	1-5231-6418-2 0-19-199122-8
Soggetti	Artificial intelligence - Educational applications Science - Study and teaching - Data processing Technology - Study and teaching - Data processing Engineering - Study and teaching - Data processing Mathematics - Study and teaching - Data processing Intelligence artificielle - Applications en education Sciences - Etude et enseignement - Informatique Technologie - Etude et enseignement - Informatique Ingenierie - Etude et enseignement - Informatique Mathematiques - Etude et enseignement - Informatique
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	In the age of rapid technological advancements, the integration of Artificial Intelligence (AI), machine learning (ML), and large language models (LLMs) in Science, Technology, Engineering, and Mathematics (STEM) education has emerged as a transformative force, reshaping pedagogical approaches and assessment methodologies. This book delves deep into the multifaceted realm of AI-driven STEM education. It begins by exploring the challenges and opportunities of AI-based STEM education, emphasizing the intricate balance between human tasks and technological tools. As the chapters unfold, readers learn about innovative AI applications, from automated scoring systems in biology,

chemistry, physics, mathematics, and engineering to intelligent tutors and adaptive learning.
