

Innovations in Educational Robotics: Advancing AI for Sustainable Development

Ali Sorayyaei Azar (University of Malaya, Malaysia)
 Tariq Elyas (King Abdulaziz University, Saudi Arabia)
 Muthmainnah Muthmainnah (University of Al Asyariah Mandar Sulawesi Barat, Indonesia)
 Samantha Curle (University of Bath, UK)

Description:

The convergence of Artificial Intelligence (AI) with robotics marks a pivotal moment in education, offering transformative possibilities that extend beyond traditional disciplinary boundaries. Through scrutinizing the evolution of robotics-based curricula through an interdisciplinary lens, synergies are uncovered that not only enhance learning outcomes but also contribute to the attainment of Sustainable Development Goals (SDGs). The intersection of robotics-based education and SDGs presents both challenges and opportunities for advancing the global sustainability agenda. Empowering educators to harness the potential of AI-driven robotics technologies is crucial for realizing the transformative impact of these innovations in education.

Innovations in Educational Robotics: Advancing AI for Sustainable Development delves into the fusion of language arts and scientific inquiry, presenting a unique approach to educational robotics that integrates the elements of both disciplines. By blending the creativity and communication skills inherent in English with the problem-solving and discovery-driven nature of science, it explores new pathways for fostering innovation, critical thinking, and sustainable development. Covering topics such as learning theories, language tools, and test anxiety, this book is an excellent resource for language educators, curriculum developers, linguists, robotics engineers, professionals, researchers, scholars, academicians, and more.

ISBN: 9798369361658 **Pages:** 336 **Copyright:** 2025 **Release Date:** 3/12/2025

Hardcover: \$165 **Softcover:** \$125 **E-Book:** \$165 **Hardcover + E-Book:** \$195

Topics Covered:

- | | |
|------------------------------|----------------------------------|
| Artificial Intelligence (AI) | Learning Theories |
| Educational Practices | Metaverse |
| Educational Robotics | Modern Education |
| English Medium Instruction | Sustainability |
| Language Learning Attitudes | Teacher Professional Development |
| Language Tools | Test Anxiety |

Subject: Education
Readership Level: Advanced-Academic Level (Research Recommended)

Classification: Edited Reference
Research Suitable For: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

Order Information

Phone: 717-533-8845 x100
 Toll Free: 1-866-342-6657
 Fax: 717-533-8661 or 717-533-7115
www.igi-global.com
 Address: 701 East Chocolate Avenue, Hershey PA, 17033, USA

