Record Nr. UNINA9910483745503321 Robotics in Education: Current Research and Innovations / / edited by **Titolo** Munir Merdan, Wilfried Lepuschitz, Gottfried Koppensteiner, Richard Balogh, David Obdržálek Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa **ISBN** 3-030-26945-0 Edizione [1st ed. 2020.] 1 online resource (444 pages) Descrizione fisica Advances in Intelligent Systems and Computing, , 2194-5357;; 1023 Collana 629.892 Disciplina 629.892071 Soggetti Computational intelligence Technical education Artificial intelligence Computational Intelligence Engineering/Technology Education Artificial Intelligence Lingua di pubblicazione Inglese Materiale a stampa **Formato** Livello bibliografico Monografia Note generali Includes index.

Sommario/riassunto

This proceedings book gathers the latest achievements and trends in research and development in educational robotics from the 10th International Conference on Robotics in Education (RiE), held in Vienna, Austria, on April 10–12, 2019. It offers valuable methodologies and tools for robotics in education that encourage learning in the fields of science, technology, engineering, arts and mathematics (STEAM) through the design, creation and programming of tangible artifacts for creating personally meaningful objects and addressing real-world societal needs. It also discusses the introduction of technologies ranging from robotics platforms to programming environments and languages and presents extensive evaluations that highlight the impact of robotics on students' interests and competence development. The approaches included cover the entire educative range, from the elementary school to the university level in both formal and informal