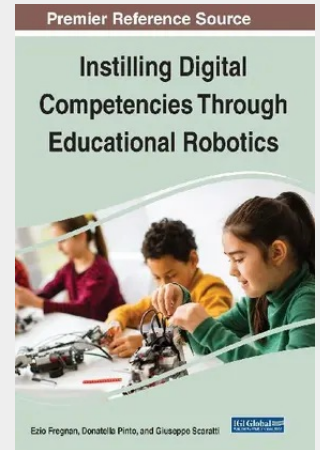


Instilling Digital Competencies Through Educational Robotics

Educational robotics is a new teaching technology that aims to provide an interactive, creative, and innovative learning environment in which children can use robotics to investigate subjects such as physics and mathematics. Instructive, creative, and inspirational, this technology provides a number of benefits to education. In order to appropriately utilize this technology, further study on the opportunities and challenges of its successful integration into the classroom is required. Instilling Digital Competencies Through Educational Robotics outlines the new work culture and training guidelines emerging from innovative educational robotics practices present in the new educational and training ecosystem. The text also provides guidelines to prepare younger generations to handle new human and technology paradigms as well as acquire effective working capability for Industry 4.0 and digital transformation scenarios. Covering topics such as working culture, digital skills, and STEM education, this reference work is essential for instructional designers, educational software specialists, academicians, administrators, managers, scholars, practitioners, researchers, instructors, and students.

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