ROBOAQUARIA: ROBOTS IN AQUATIC ENVIRONMENTS TO PROMOTE STEM AND ENVIRONMENTAL AWARENESS

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Abstract
The paper explores the potential of robotics in environmental education, focusing on the 'ROBOAQUARIA' project. It highlights the importance of integrating robotics into education - particularly within the field of Science, Technology, Engineering, Arts and Mathematics (STEAM), emphasizing creativity, critical thinking, and problem-solving skills. Research indicates positive outcomes across various disciplines within STEAM, including environmental education. Several projects demonstrate the effective use of robotics in teaching about environment. The ROBOAQUARIA project aims to integrate educational robotics into marine environmental education, offering a holistic approach involving equipment provision, teacher training, and curriculum development. Findings suggest potential benefits for schools.