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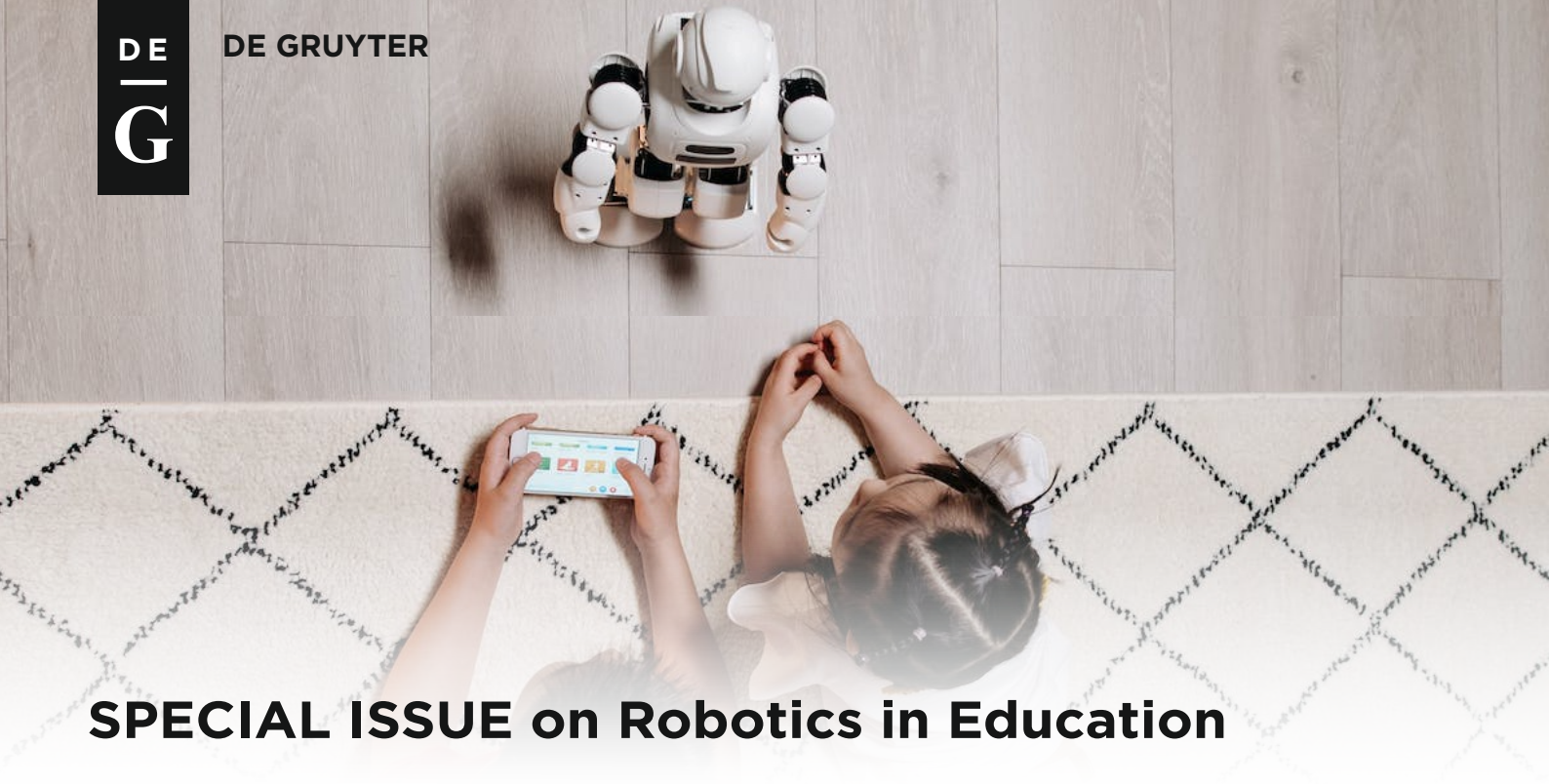

SPECIAL ISSUE on Robotics in Education

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DESCRIPTION

For several decades now, robotics has entered the field of education, starting with the Logo project by Seymour Papert and others. Since then, numerous studies and experiences have confirmed the benefits of using educational robots in supporting children's learning, with a special focus on STEM subjects, with the important addition of the A from Art.

Robots are physical and programmable objects that allow students to test and develop their knowledge and skills, such as logical reasoning and computational thinking, in a fun and engaging way. Its use in educational systems and non-formal education has been established in several national and international contexts.

The use of educational robots can make a school project applicable to many real-world fields of social life. Moreover, it has the potential to actively involve all students, as it adapts to different preferences and skills. Interesting international projects are tackling inclusive education methodologies using appropriately designed robotics kits. The participation of students in robotics competitions, especially those geared towards solving environmental and social problems, can activate in young people an interest in science and technology applied to solving the important problems that all nations are facing and, at the same time, support the development of complex skills of project managing and teamwork.

Thanks to the versatility of robotics and its ability to cover vast areas of knowledge and almost all disciplines, the use of educational robots is suited to the different personalities of young people, gender education and the most creative minds.

KEYWORDS

- Critical history of robotics in education (educational robotics, ER)
- Educational robotics
- Robotics in early childhood education
- Robotics in special education
- Robotics and autism
- Robotics tournaments for schools
- Robotics kits for early education, elementary and secondary schools
- Robotics in education and promotion of scientific interest
- Methodologies to use robots in school settings
- Ethical and societal issues concerning human-robot interaction in education
- Psycho-pedagogical elements of using educational robots
- Educational robotics and cognitive development of children and adolescents
- Robotics programming and construction strategies
- Training of teachers and educators
- Network of schools adopting ER

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All submissions to the Special Issue must be made electronically via online submission system Editorial Manager: www.editorialmanager.com/paladyn

All manuscripts will undergo the standard peer-review process (single blind, at least two independent reviewers). When entering your submission via online submission system please choose the option ***"Special Issue: Robotics in Education".***

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We are looking forward to your submission !!!

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