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PROJECT: IMPACT OF HUMANOID ROBOTS IN LEARNING ENVIRONMENTS

The purpose of the project

The project "The Impact of Humanoid Robots in Learning Environments" has a multidisciplinary approach and its main goal is to research the impact of humanoid robot technology and similar intelligent systems on teaching and learning, as well as the new opportunities that this competence can offer to students of the Primary Education Program and the Inclusive Education and Subject Teaching Master Programs in our faculty. Moreover, through this project it is intended to investigate whether the integration of humanoid robots in the learning process affects the motivation, attention and learning, and academic results of students with typical and atypical development.

Project objectives

- O1: Integrating humanoid robots during the teaching and learning process and analyzing their impact on teaching
- O2: Measuring the impact and effects of using humanoid robot technology on student achievement among students and primary school students in general and students with atypical development in particular
- O3: Measuring the impact of the use of humanoid robot technology on motivation, attention, learning and attitudes towards learning in primary school students in general and students with atypical development in particular
- O4: Reform specific courses within teacher preparation programs (based on survey findings) to enable the integration of humanoid robot technology
- O5: Design, development and accreditation of the program for professional development of teachers for the use of humanoid robot technology in their teaching
- O6: Development of didactic materials and drafting of a manual for the use of these materials and the use of humanoid robots in the learning environment
- O6: Dissemination of project results at national and international level

Research questions

1. What impact does the use of humanoid robots have on the teacher preparation process?
2. How do the use of humanoid robots in the process of teacher preparation relate to the competencies of future teachers for the integration of technology in learning environments?
3. To what extent does the use of humanoid robots affect the academic achievements of primary school students in general and students with atypical development in particular?
3. To what extent does the use of humanoid robots influence the motivation of primary school students in general and students with atypical development in particular?
4. To what extent does the use of humanoid robots affect the attitudes towards learning in primary school students in general and students with atypical development in particular?

Main results of the project

- At least three scientific studies and their publication for national and international dissemination that present the results of measuring the impact of the use of humanoid robot technology in teaching
- Redesign of at least 5 teacher preparation courses in the Primary Education program, Master in Inclusive Education and Master in Subject Teaching based on the evidence from the conducted research
- Design and accreditation of at least one module for professional development of in-service teachers about the use of humanoid robot technology in teaching
- Generation of didactic materials for their use with the humanoid robot
- Organizing at least one TED-style symposium to discuss findings from the studies

Project team:

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