

Seminar mathematics education Tuesday 4 May

Using Lego Mindstorms NXT robotic kit in education.

Since the first robotic kit was released, they were popular between students. They may build various models and program them to behave as they want. Few of these robotic kits must be attached to computer to operate, but today, most robotic kits have own processor and battery. The robotic kit Lego Mindstorms NXT belongs to one of them. So you can build a model, program it (either using computer or not) and then run inside or outside to collect data or just make some interesting movement.

In my thesis I would like create and test pedagogical material for robotic kit Lego Mindstorms NXT, because this robotic kit is quite new at our schools and in our language, there are only few materials that teachers can use. Using these materials, the students should be able to work with standard sensors in kit, become familiar with programming environment Lego Mindstorms Education and know to program easier programs like navigate the robot using sensors or communication between two robots using bluetooth connection.