IMPLEMENTATION ROBOT OF LIGHT INTENSE OBJECT DETECTION WITH THE LOCATION

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Abstract
In this today's society of Information Technology Era, people have become more and more dependant on technology as well as the robot. In an era of growing technological developments currently hold opens for new alternatives in the use of robotic technology is more efficient and faster. Many miniature robot technology (microbot) which can be used to mimic the original robot. One of the famous robot technology is now LEGO NXT Mindstorm NXT-G platform.

Lego mindstorm NXT is more than just a toy. Lego Mindstorm NXT robot allows for the development by using several motors and sensors. However, processing power, memory, and communication skills LEGO NXT far behind what is offered on the PDA device or laptop.

Seeing the above, the idea to create a NXT robot with artificial intelligence such as robotic search of coal. Using sensors that are available in a LEGO Mindstorm NXT package, the light sensor to detect objects, using ultrasonic sensors to avoid collision between robot with the object. With desktop application to display the object distance is determined by the scale of the wheels. Using Bluetooth for the connection.

Keywords : microbot, bluetooth, LEGO Mindstorm NXT.