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Abstract- In This Paper We Present The Use Of A 3R Lego Robotic Arm For Teaching Basic Robotic Concepts. The Lego Mindstorms NXT Kit Is An Affordable Equipment That Can Be Used To Better Visualize Robotic Concepts Usually Taught In Classes. The 3R Lego Feb 6th, 2024

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I Table Of Contents 1. Introduction 1.1 Previous Investigations On Prehension 1.2 Current Investigation 2.1 Grasping Model And Assumptions 2.2 Stiffness, Strength And Stability Of A Grasp 2.3 I'rocedurc For Establishing Grip Properties 2.4 Two-Dimensional Examples 2.4.1 Choosing Between Five Grips: An Example 2.4.2 An Unstable Example 3. Extension To Three-Dimensional P Jun 1th, 2024

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Material Recognition And Object Manipulation And Can Replace Manual Sorters In The Final Stages Of Waste Sorting. It Can Also Sort Waste Streams That Omit The Initial Energy-consuming Resizing Step (non-destructive Recycling), Because The Robot Can Manipulate Objects Of Varying Sizes And Shapes. Figure 1: ZenRobotics Recycler. 1. Sensors 2. Jun 4th, 2024

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