

Robot Arm Bridge

Researchers developed a robotic arm that throws a spear with a string to install wires under bridges, using a 3D flight model to accurately predict the throw and enable safer, faster bridge ...

All the data was collected on a WidowX 250 6DOF robot arm. We collect demonstrations by teleoperating the robot with a VR controller. The control frequency is 5 Hz and the average trajectory ...

This study introduces a functionality and data-driven design methodology for the modular development of articulated robotic arms specifically tailored for bridge maintenance applications.

To eliminate manual high-altitude operations in bridge maintenance, we have developed a robot-arm-shaped modularized rail platform deployed beneath bridges. In principle, multiple robots can travel ...

Our dataset is collected using a low-cost yet versatile 6-DoF WidowX250 robot arm and contains 7,200 demonstrations of a robot performing 71 kitchen tasks across 10 environments with varying...

Achieving accurate placement and controlled rotation of the metal ring is paramount for optimal performance and reliability of the H-Bridge. Automation offers a tailored solution to this subtask by ...

Unmanned aerial and traversing robot as mobile platform for bridge inspections, Proceedings of the International Conference on Structural Health Monitoring of Intelligent Infrastructure, St. Louis.

6-Axis Articulated Robot Arm with Smart Welding System UMW's Articulated Robotic Welding System revolutionizes industrial manufacturing with precision-engineered automation.

The Laboratory of Automation, Robotics, and Machines (ARM) at SUPSI, led Anna Valente, has taken an important step forward in the safety of maintenance operations, successfully ...

Universal ROS1/ROS2 bridge for AI agents to control robots and embodied intelligence systems. - AI-Native-I/agent-ros-bridge

Web: <https://www.maxtools.co.za>

