

## Path Modifying Control System Managing Robot Singularities

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## The Invention

A controller for robot arms and the like having mechanical singularities identifies paths near the singularities and modifies those paths to avoid excessive joint movement according to a minimization of tool orientation deviation to produce alternative paths that minimize changes in the tool orientation such as can affect application such as welding, sealant application, coating and the like.

## **Tech Fields**

• Engineering: General engineering technologies

For current licensing status, please contact Emily Bauer at <a href="mailto:emily@warf.org">emily@warf.org</a> or 608-960-9842