

Akul Penugonda - Robot Arm Motion



Verifying the Motion of a Robot Arm

Akul Penugonda



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Why bother?



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Safety and Assumptions

- No collisions initially
- Cannot collide with object during motion

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One-link prismatic arm

- 1-dimensional
 - Collision is simple
1-d check
- 2-dimensional
 - More complicated
collisions



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Planar 2d rotating arm

- Same collision checking
- Harder velocity choice

