

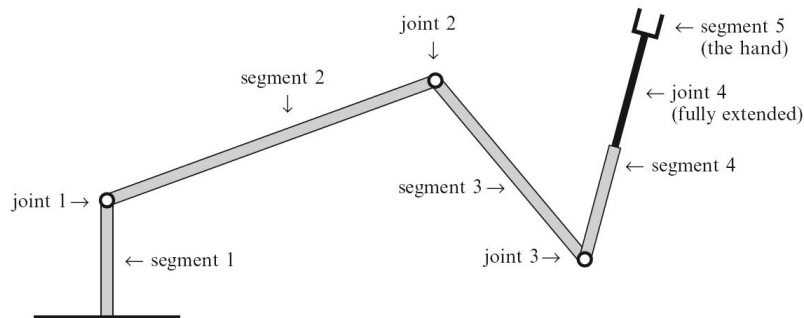
Student Research Talks (StReeTs)

Mason Experimental Geometry Lab (MEGL)

Surviving the Singularity: Using Grobner Bases to Describe Killer Robots

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Abstract

Grobner bases are a specific type of generating set for an ideal of a polynomial ring over a field that are useful for a variety of problems. In this talk we will give a brief introduction to how Grobner bases are computed. We will then discuss the kinematic problems that arise in attempting to describe robotic arms, and will walk through some simple examples. Finally, we will talk briefly about how to handle these same problems when the robots are in motion.

Date: Friday, April 22, 2016
Time: 2:30pm–3:30pm
Place: Exploratory Hall 4106

Pizza and soda will be served at the presentation.

For further information or for special accommodations, please contact Sean Lawton via email at seanlawton@gmail.com or drop by the MEGL.