

Note on geometric algebras and control problems with SO(3)-symmetries

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December 8, 2021

Abstract

We study the role of symmetries in control systems by means of geometric algebra approach. We discuss two specific control problems on Carnot group of step 2 invariant with respect to the action of \$SO(3)\$. We understand geodesics as curves in suitable geometric algebras which allows us to asses an efficient algorithm for local control.

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