

Dynamics of two quadrotors transporting a mass point by Andrea Leone

Abstract

Lie group integrators have been successfully applied for the simulation of mechanical systems, and in problems of control, bio-mechanics and other engineering applications. In this talk we consider an application for the controlled path of a payload being transported by two rotors. We identify the configuration manifold of the system from the perspective of geometric mechanics, we formulate the equations of motion and we show how Lie group integrators can be applied to solve this multibody system."