

# **Abstract**

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## **Multi degree of freedom fuzzy controller**

This paper presents a multi-degree of freedom (MDOF) controller. The new proposed method is applied to a second order system using fuzzy logic controller (FLC), which is designed to yield precise command tracking via combination of two simultaneous sub-controllers. The proposed controller can be implemented utilizing simple S/W algorithm. The simulation results show that the use of controller improve performance of the control system.