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Fuzzy Logic-Based Navigation of a Boat

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Abstract

This paper mainly describes designing and simulating a fuzzy logic-based navigational controller for unmanned surface vehicles. The controller considered in this study is consists a fuzzy based systems. MatLab framework with Fuzzy Logic toolbox was used to design and implementing the whole system. MatLab programs were used for the navigational controller simulation. The basic design procedure and the simulation procedure were included in the paper in detail. The results including the desired and actual paths are plotted.