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FUZZY VARIABLE ORDER CONTROLLER DESIGN FOR CHAOTIC SYNCHRONIZATION

ÖZKAN ATAN AND FATİH KUTLU

ABSTRACT

The potential application of chaotic systems has a resulted in increasing attention to such systems. In this paper, we designed fuzzy variable order controller for synchronisation of chaotic systems. The stability of the systems synchronisation was studied, and variable order controller increase this synchronization performance. The changes in the errors of synchronisation were examined. Finally the results of numerical simulations were compared with the results of classic fuzzy fractional order controller.

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Van Yüzüncü Yil University, Van, Turkey
E-mail address: oatan@yyu.edu.tr

Van Yüzüncü Yil University, Van, Turkey
E-mail address: fatihkutlu@yyu.edu.tr