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Title:

Folding a linear system to a second order form

Abstract:

In this talk, we review a strategy that converts a linear system to a second-order form presented by D. G. Meyer et al. in 1996. A shortcoming of the method is the construction of transformation matrix is combinatorially hard. The purpose of this talk is to present a simple method to extract second-order system matrices from a linear state space system. Furthermore, a sufficient condition to the existence of the transformation matrix is given.