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Title: Global Optimisation for Dynamic Systems using Interval Analysis

Author: Carlos Pérez-Galván I. David L. Bogle

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Highlights

A global optimisation method with a verified solver using contractors is proposed .

The method developed is competitive against other similar guaranteed methods.

The interval Newton/Gauss-Seidel contractor is chosen for the optimisation method.

Dynamic simulation and global optimisation case studies are presented.

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