

Reduced order control using low-rank Dynamic Mode Decomposition

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1 Skeleton

- Introduction
- Mathematical formulation
 - DMD
 - lr-DMD and its two algorithms
- Problem formulation
 - linear system and optimal control
 - Reduced order Riccati equation solution
- Numerical experiments
 - Fabricated problem/famous small problem like vanderpol
 - Linear Ginzburg-Landau
 - Flat plate (stable and unstable)

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