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An integrated output space partition and optimal control method of multiple-model for nonlinear systems

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Highlights

- An integrated output space partition and optimal control method of multiple-model for nonlinear systems is initially addressed.
- The decomposition of multiple-model is obtained from closed-loop performance, not come from the characteristic of the open-loop systems.
- By constructing new states underlying each state having the same physical meaning, the input-output identification model is transferred into state space form.
- A projection operator is designed to project the partition in the constructed state space into output space.

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