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Dynamic self-optimizing control for unconstrained batch processes

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## Highlights

- The methodology of self-optimizing control is extended to a class of unconstrained batch systems.
- $\bullet$  Dyamic self-optimizing control is posed as a structure-constrained static problem.
- A convex formulation is derived to solve combination matrix of controlled variable.
- Analytic solution for the optimal combination matrix is derived.

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