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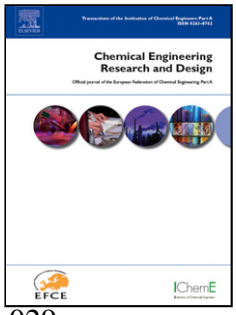

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Highlights

- Hidden Markov models are used to model the multimode delay-timers configuration.
- Analytic equations for false and missed alarm rate and detection delay are derived.
- A design procedure based on particle swarm optimization algorithm is developed.

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