

## Accepted Manuscript

A new T-S fuzzy model predictive control for nonlinear processes

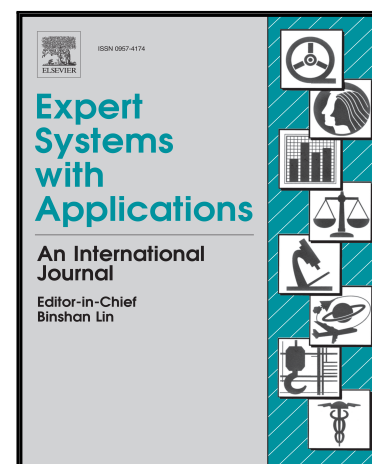
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**Highlights**

- A new Takagi-Sugeno system based Kernel ridge regression (TS-KRR) was proposed
- The TS-KRR strategy is implemented for both adaptive and offline identification
- The TS-KRR was integrated with the GPC to control discrete-time nonlinear systems
- The proposed controller showed good results in TS fuzzy GPC with offline modeling
- The adaptive TS fuzzy GPC showed good results in dealing with disturbances

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