

عنوان مقاله:

Online Monitoring for Industrial Processes Quality Control Using Time Varying Parameter Model

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نویسنده:

Roja Parvizi Moghadam - *Chemical Engineering, University of Sistan and Baluchestan, Zahedan*

خلاصه مقاله:

A novel data-driven soft sensor is designed for online product quality prediction and control performance modification in industrial units. A combined approach of time variable parameter (TVP) model, dynamic auto regressive exogenous variable (DARX) algorithm, nonlinear correlation analysis and criterion-based elimination method is introduced in this work. The soft sensor performance validation is tested by data set of an industrial SRU. The comparative study indicated the result associated with more robust soft sensor and more appropriate performance index values compared to other methods for SRU soft sensor design in diverse achievements. Due to high prediction accuracy, the low complication of the model and also saving of time, this technique can be very noticeable in industrial processes control.

کلمات کلیدی:

Soft sensor, time varying parameter, SRU, Quality estimation, Identification, Data, based modeling

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