## **Accepted Manuscript**

The least squares based iterative algorithms for parameter estimation of a bilinear system with autoregressive noise using the data filtering technique

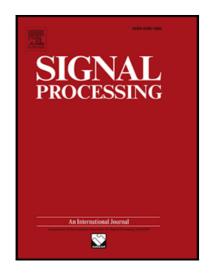
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#### ACCEPTED MANUSCRIPT

### Highlights

- $\bullet\,$  The input–output representation is derived from a bilinear state space system.
- A two-stage LSI algorithm is proposed for reducing the computational burden.
- A filtering based LSI algorithm is derived for improving the estimated securacy.



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