## **Accepted Manuscript**

Robust incremental normalized least mean square algorithm with variable step sizes over distributed networks

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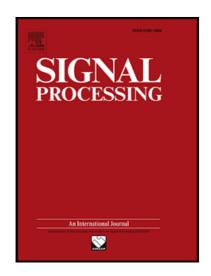
PII: S0165-1684(17)30338-9 DOI: 10.1016/j.sigpro.2017.09.016

Reference: SIGPRO 6608

To appear in: Signal Processing

Received date: 25 April 2017

Revised date: 13 September 2017 Accepted date: 14 September 2017



Please cite this article as: Yi Yu, Haiquan Zhao, Robust incremental normalized least mean square algorithm with variable step sizes over distributed networks, *Signal Processing* (2017), doi: 10.1016/j.sigpro.2017.09.016

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## **Highlights**

- An improved INLMS algorithm is developed, which is robust against impulsive noises over distributed networks.
- To significantly suppress impulsive noises, a recursive scheme based on the incremental cooperation strategy is designed for updating the cutoff parameter in the Huber function.
- The proposed algorithm can be interpreted as a variable step size INLMS algorithm.
- To track a sudden change of the unknown system, a modified method of resetting the cutoff parameter is developed.



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