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

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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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