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A family of robust adaptive filtering algorithms based on sigmoid cost

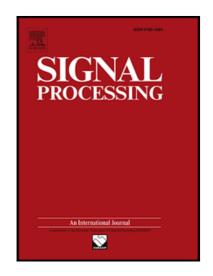
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Highlights

- A family of sigmoid-based robust adaptive filtering algorithms is proposed in this paper.
- The steady-state EMSEs of the proposed sigmoid-based algorithms are smaller than those of the corresponding conventional algorithms.
- . The step-size bounds for the proposed sigmoid-based algorithms are 4 times larger than those obtained for the corresponding conventional algorithms.

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