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Stability Analysis of Digital Filters Subjected to Interference Using Generalized Overflow Nonlinearities

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- **Highlights**

- A new criterion for the absence of limit cycles in externally interfered digital filters under generalized overflow nonlinearities via IOSS approach is presented.
- Asymptotic stability criterion of fixed-point digital filters is proposed.
- Several numerical examples are presented for showing the effectiveness of the proposed criterion.

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