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Fast folding algorithm

From Wikipedia, the free encyclopedia

In [signal processing](#), the **fast folding algorithm** (Staelin, 1969) is an efficient [algorithm](#) for the detection of approximately-[periodic](#) events within [time series](#) data. It computes superpositions of the signal modulo various window sizes simultaneously.

The FFA is best known for its use in the detection of [pulsars](#), as popularised by [SETI@home](#) and [Astropulse](#).

See also [\[edit\]](#)

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- David H. Staelin. Fast Folding Algorithm for Detection of Periodic Pulse Trains. *Proceedings of the IEEE*, 57 (1969).
- R. V. E. Lovelace, J. M. Sutton and E. E. Salpeter. Digital Search Methods for Pulsars. *Nature* 222, 231–233 (1969).

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*This [algorithms](#) or [data structures](#)-related article is a **stub**. You can help Wikipedia by [expanding it](#).*

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