

Accepted Manuscript

Fractional-order Bernoulli wavelets and their applications

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PII: S0307-904X(16)30227-X
DOI: [10.1016/j.apm.2016.04.026](https://doi.org/10.1016/j.apm.2016.04.026)
Reference: APM 11147

To appear in: *Applied Mathematical Modelling*

Received date: 21 July 2015
Revised date: 15 April 2016
Accepted date: 26 April 2016

Please cite this article as: P. Rahimkhani, Y. Ordokhani, E. Babolian, Fractional-order Bernoulli wavelets and their applications, *Applied Mathematical Modelling* (2016), doi: [10.1016/j.apm.2016.04.026](https://doi.org/10.1016/j.apm.2016.04.026)



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Highlights

- We define a new fractional function based on the Bernoulli wavelet.
- The fractional integration operational matrix for these functions is driven.
- This matrix combine with collocation method for solve fractional systems.
- We achieve error analysis. The error analysis shows that the method is convergent.
- The results show that a small number of these functions yield accurate results.

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