

# **Generating Finite-Interval Wavelet Sets in $\mathbb{R}$**

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## Abstract:

Wavelet sets are simply defined, but an exhaustive method for generating them has been elusive. A method for generating finite interval single and multiple dilation wavelet sets is presented here, with demonstrations of generating sets and showing certain parameters under which they are not constructible. Implementation of a MAPLE routine for confirming wavelet set generation is also presented.