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Yang Wang*, Department of Mathematics, Michigan State University, East Lansing, MI 48824,
and **Ingrid Daubechies, Sinan Gunturk** and **Ozgun Yilmaz**. *The Golden Ratio Encoders*.

We propose a novel algorithm for analog-to-digital conversion that is robust and easy to implement. Unlike traditional analog-to-digital converters which use base 2 expansions, the new encoders use the golden ratio as the base for expansion. (Received February 04, 2008)