

1096-Q1-1895

**Beth Kate Matys\*** (matye101@gettysburg.edu), **Ayush Singhal**, **Sarah Coulson**, **Karina Pena** and **Joel Venzke**. *Signature Authentication Using Wavelets and Fourier Analysis*. Preliminary report.

We explore three different methods to authenticate a signature given a data bank of genuine signatures. After quantifying the signatures, we use raw data, wavelet, and Fourier analysis to authenticate them. We compare the reliability of these three methods and conjecture the reasons behind the strengths and weaknesses of each. (Received September 16, 2013)