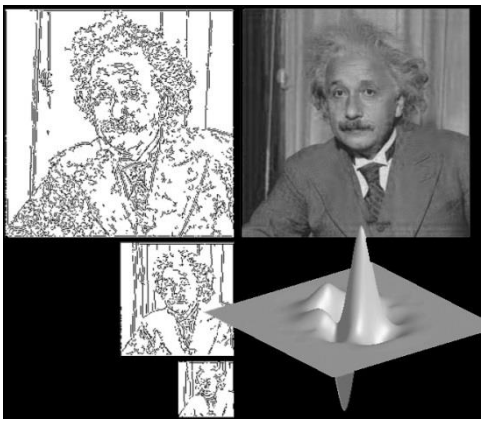
Mathematics Seminar

Sponsored by the Department of Mathematics
Florida Gulf Coast University

Discrete Wavelets and Image Compression



Wavelet theory was an immensely popular research area in the 1990s that brought together ideas from people working in completely different areas such as electrical engineering, physics, mathematics, and computer science. Even in mathematics, the subject attracted researchers from real and harmonic analysis, statistics, and approximation theory.

Applications of wavelets turn up in lots of different places such as identifying art or handwriting forgeries, JPEG2000 image compression, and FBI fingerprint storage algorithms, among others.

In this talk, I will show you what the Discrete Haar Wavelet transform is, how it can be used in image compression, and its connections to some beautiful mathematics.

Catherine Bénéteau, Ph.D.
University of South Florida

Friday November 1st, 2013 at 2:00 pm
AB7 Room 220

Light Refreshments will be available