**Heat Kernel Embeddings, Differential Geometry and** **Graph Structure 2015**

Relation Heat kernel and Path Length Distribution  
Remarks about MDS

**Skeletal Graphs from Schrödinger Magnitude and Phase 2015**

Higher order Laplacians L^m ?

Long-time averages of magnitude and phase

**Graph Characterization using Wave Kernel Trace 2014**

Description edge based representations

Wave kernel trace (the same as the other traces?)

Spectral invariants? (traces)

Here they use the kernel sampled over time as feature vector (not spectrum).

**Eigenfunctions of the Edge-Based Laplacian on a Graph 2013**

Summarizes Friedman paper (Calculus on graphs, Laplacian on Graphs)

Connections to (backtrackless) random walks

**Graph Characterization Using Gaussian WavePacket Signature 2013**

**Gaussian Wave Packet on a Graph 2013**

Solution of wave equation  
initial gaussian wave packet,  
wave packet signature

**Graph Characteristics from the Heat Kernel Trace**

Three different chracterizations of the heat kernel (zeta, zeta deriv, heat content).

**Trace Formula Analysis of Graphs**

Just the zeta characteristic.