

Meeting: 1003, Atlanta, Georgia, SS 36A, AMS-SIAM Special Session on Mathematical Image Processing, I

1003-68-1671 **Xiaoming Huo*** (xiaoming@isye.gatech.edu), School of Industrial and Systems Eng., Georgia Institute of Technology, 765 Ferst Dr., Atlanta, GA 30332. *Multiscale methods in imaging science.*

I will review some recent developments in multiscale methodology in imaging science. I will describe a new multiscale structure -beamlets - and the first progressive curve coder on which it is built. I will also describe how multiscale approach can unveil some fundamental results on the level of difficulty to some imaging problems: e.g., detecting geometric objects in whitenois. (Received October 06, 2004)