

Imaging Seminar - Department of Mathematics

Date and Time: Friday August 7, 2015, 2-3 PM

Location: PGH 646

Wavelet analysis in primary visual cortex

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Abstract

A large portion of primary visual cortex neurons activates with an approximately linear response to visual stimuli. Their behavior can be modeled to a certain extent as a projection of images onto a family of multiscale Gabor filters, with respect to a set of parameters which seems to be related to the task of edge and contour detection. This seminar is aimed to discuss some properties of that analyzing family, and to briefly comment on some details and limitations of this approach.