



THE UNIVERSITY OF  
**CHICAGO**

Departments of Computer Science, Mathematics, Statistics, and the Computation Institute  
**SCIENTIFIC AND STATISTICAL COMPUTING SEMINAR**

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**PETER J. OLVER**

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University of Minnesota

**Invariant Histograms and Signatures for Object  
Recognition, Symmetry Detection, and Jigsaw Puzzle  
Assembly**

**THURSDAY, April 4, 2013, at 4:30 PM**

Eckhart 133, 5734 S. University Avenue

**ABSTRACT**

I will survey recent developments in the use of group-invariant histograms, using distances, areas, etc., and signatures, using differential invariants, joint invariants, invariant numerical approximations, etc., for object recognition and symmetry detection in images, including recent applications to automated jigsaw puzzle assembly.

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