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## **Recognition and Matching Based on Local Invariant Features**

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### **Abstract**

Local photometric features have become popular as a practical and effective approach to image matching and recognition. They are distinctive as well as robust to occlusion and clutter. Recently these features have been extended to be scale and affine invariant which allows matching and recognition in the presence of large scale and viewpoint changes. In this short course we present these features and describe their application to image matching, 3D recognition, texture and scene classification as well as recognition of object categories. We will demo a system that uses these features to perform object recognition in real time.