1106-J1-1798 **Candice Rockell Gerster*** (crgerstner@hotmail.com). *The Future of Image/Video Feature Detection.*

In computer vision and image processing, feature detection is the process of determining if a pixel is an "interesting" part of an image. This is done by utilizing a feature descriptor algorithm such as Scale-Invariant Feature Transform (or SIFT), Histogram of Gradients (or HOG), or Binary Robust Independent Elementary Features (or BRIEF) to name a few. However, recent research into using convolutional neural networks (CNN) for image/video feature detection have prompted discussion and research on whether CNN will outperform these descriptors. This talk will discuss the basics of current feature descriptors and the long term uses of each, with an emphasis on image/video feature detection. (Received September 15, 2014)