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KEYNOTE TALK TITLE:

**DEEP LEARNING MODELS FOR REPRESENTATION LEARNING
FROM IMAGE DATA**

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The shallow learning models based on conventional machine learning techniques for pattern classification such as Gaussian mixture models, multilayer feed forward neural networks and support vector machines use the hand-picked features as input to the models. Recently, several deep learning models have been explored for learning a suitable representation from the image data and then using the learnt representation for performing the image pattern analysis tasks such as image classification, annotation and captioning. In this talk, we present the deep learning models such as stacked auto encoder, Deep convolution neural network and Stacked restricted Boltzmann machine for learning a suitable representation from the image data