

## Design of “Deep Learning Controller”

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Presentation/Paper Type: Oral / Abstract

**Abstract-** Deep learning allows computational models of multiple processing layers to learn and represent data with multiple levels of abstraction mimicking how the brain perceives and understands multimodal information, thus implicitly capturing intricate structures of large- scale data. In the meantime, recent advances in deep learning, encompassing neural networks, hierarchical probabilistic models, and a variety of unsupervised and supervised feature learning algorithms, have brought about tremendous development to many areas of interest to the engineering community. In this study, a brief introduction for deep learning and its application on control engineering have been presented.

**Keywords-** Deep learning, controller design, control engineering, big data.