

## **Call for paper**

### **Special Session on Deep Learning Applications**

It has always been the ultimate human goal and will be the highest achievement either to mimic, to develop or to create a mind that able to make decision as good as or even better than human brain able to do. A machines that possessed the same characteristics of human intelligence, an Artificial Intelligence. Artificial Intelligence has been part of our imaginations and bubbling in research labs since a handful of computer scientists rallied around the term in. In the decades since, Artificial Intelligence has alternately been heralded as the key to our civilization's brightest future, and tossed on technology's trash heap as a hare brained notion of over-reaching propeller heads. The practically infinite storage , big data movement along with the availability of GPU that make parallel processing ever faster, cheaper and more powerful has exploded the Artificial Intelligence. From Artificial Intelligence, where human intelligence exhibited by machine move to Machine Learning, the approach to achieve Artificial Intelligence. And now the era of Deep Learning, the technique for implementing the Machine Learning. Deep Learning has enabled many practical applications of Machine Learning and by extension the overall field of Artificial Intelligence. Deep Learning crunches down tasks in ways that makes all kinds of machine assists seem possible, even likely. Driverless cars, a better preventive healthcare, even better movie recommendations, are all here today or on the horizon. Deep Learning is the present and the future.

The major aim of this workshop is to bring researchers from different fields to address issues related to Artificial Intelligences solved by Deep Learning systems. Further contributions toward advancement of Deep learning implementation will be expected

Consequently, the range of topics covered in this session is wide, including but not limited to:

- Deep Learning Algorithm
- Deep Learning Big Data Analytic
- Deep Learning Speech Recognition
- Deep Learning Computing Systems
- Deep Learning Natural Language Processing
- Deep Learning Computer Vision
- Deep Learning Sentiment Analysis
- Deep Learning Image Retrieval
- Deep Learning Autonomous Vehicle
- Deep Learning Robotic
- Deep Learning Industrial Automation
- Deep Learning Medical
- Deep Learning Social Media
- Deep Learning Finance
- Deep Learning Bioinformatics
- Deep Learning Genomics
- Deep Learning Healthcare
- Advanced Machine Learning
- Advanced Artificial Neural Networks

**Chairs** : **Dr. Nan Md. Sahar, Universiti Tun Hussein Onn Malaysia**  
**Co-Chair** : **Dr. Mohamad Hairol Jabbar, Universiti Tun Hussein Onn Malaysia**

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