



October 24-26, 2019, Danang, Vietnam

Special Session: Deep Learning and Applications for Intelligent Systems

Based on the success of the previous Deep Learning session in KSE 2018, we are pleased to announce the session “Deep Learning and Applications for Intelligent Systems” will be held as a part of KSE 2019 in Da Nang, Vietnam.

The session focuses on developing deep learning models and applications to real-world problems relevant to intelligent systems. Deep learning has made many breakthroughs in various areas of computer science such as computer vision, speech, and natural language processing (NLP), which are the important part to build intelligent systems. In the last few years, various models have been proposed for different data representations making deep learning transited successfully from research to applications. In the context of this session, we will explore and discuss both new models and applications of deep learning in natural, programming language, and speech processing.

This session will be conducted to:

- Develop a community of researchers working on deep learning and its applications in practice,
- Discuss state of the art and future directions of deep learning,
- Bring collaboration opportunities.

We welcome all submissions to the session. Accepted papers are included in the proceedings of the conference. Relevant topics include, but are not limited to:

Deep Learning Models

- Deep learning architectures
- Recurrent networks architectures
- Neural networks for sequences, trees, and graphs
- Transformer attention mechanisms
- Transfer learning
- Deep reinforcement learning
- Effective feature embedding
- Memory networks
- Generative models: GAN, VAE

Deep Learning for Natural Language Processing

- Parsing, syntax, chunking, tagging
- Recognizing textual entailment
- Machine translation
- Question answering
- Automatic text correction
- Information retrieval/extraction
- Text summarization and generation
- Sentiment analysis, opinion mining
- Speech recognition

Deep Learning for Software Engineering

- Program representation
- Software plagiarism detection
- Malware identification, analysis and similarity
- Software defect prediction
- Program classification
- Automated program repair

Deep Learning for Applications

- Healthcare systems
- DL for biomedical text
- Recommendation systems
- Automatic speech recognition
- DL for less data applications
- Business intelligence systems
- DL for finance/price forecasting/time series
- Question answering
- Handwriting recognition
- Chatbot

Submission guideline

- Manuscript guideline: <http://kse2019.ued.udn.vn/paper-submission>
- Submission link: <https://edas.info/N25876>

Important dates

Manuscript submission:	May 15, 2019
Notification of acceptance:	July 30, 2019
Camera-ready submission:	August 20, 2019
Registration:	August 30, 2019

Session organizers

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