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Call for Papers

Special Session:Deep Learning Technique for Language Processing, Image, Text& Speech

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Details of Proposed Session

Deep Learning is a sub-set of Machine Learning and with its rapid development, problems like Image, Speech, Text, Computer Vision and Language processing have better results.Deep Learning is completely based on Artificial Neural Networks. Deep Learning algorithms can outperform any other already made algorithms, which makes it one of the most exciting field to explore with large-scale data in Language, Image, Speech & Text Processing.

It features the development of complex, multi-layered algorithms based on Deep Neural Networks (DNN) to achieve critical breakthroughs in object recognition, facial recognition, and image/voice/speech recognition, as well as machine translation, Big Data analytics and natural language processing. The transformative impact of Deep Learning technology affects every industry, from security and social media to retail, finance and IoT (Internet of Things).

This special session presents original research and technological development for addressing real and complex issues related to society and technology.

A research area for this special session includes but not limited to:

1. Deep Learning

- Algorithms and Techniques
- Deep Learning Models for Speech and Image Processing
- Deep Learning for Information Fusion (Multimodal Deep Learning)
- Deep Reinforcement Learning

- Semantic Deep Learning
- Social Media Text Analytics with Deep Learning
- Deep Learning for NLP.
- Convolutional Neural Networks(CNN)
- Optimization and general practices of training a NN/CNN

2. **Machine Learning:**

- Computational learning theory
- Experimental evaluation
- Knowledge refinement
- Reproducible research
- Statistical learning theory
- Learning problems
- Machine Translation & Multilingual Information Access
- Machine Learning for NLP

3. **Natural Language Processing:**

- Fundamentals of Language Computing
- Word Segmentation & Named Entity Recognition
- Syntactic Parsing, Semantic Analysis, Discourse Analysis
- NLP for Minority and Low-resource Languages
- Applications of Natural Language Processing
- NLP for Mobile Computing
- Knowledge Representation & Acquisition
- Personalization & Recommendation
- Semantic Web & Knowledge Base
- Query & Document Understanding
- Topic Detection & Tracking
- Sentiment analysis & Opinion Mining