



**The 3rd IEEE International Conference on Cybernetics
(CYBCONF-2017)
21-23 June 2017, Exeter, UK**

Call for papers

Special session on Deep Learning for Prediction and Estimation (DLPE)

at the 3rd IEEE International Conference on Cybernetics (CYBCONF 2017)

Exeter, UK, June 21-23 2017

Conference website: <http://cse.stfx.ca/~CybConf2017>

(1) Special Session Organizers:

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(2) General description of the SS

The area of deep learning has been receiving immense attention from researchers and practitioners across the globe. Deep learning techniques have achieved excellent results in pattern recognition with images and speech data. In fact deep learning is the state-of-the-art in the domain of computer vision, speech recognition and natural language processing. However, deep learning techniques are yet to be explored extensively for the task of prediction and estimation. Due to the advancement in sensor technology, many sectors such as energy, environment, and more recently IoT require processing of huge amount of sensor data to develop predictive models. Deep learning, due to its capability of modeling highly non-linear functions and use of very efficient learning algorithms in terms of time and computational unit requirements, seems to be very promising in this field. One of the most attractive properties of deep learning over other machine learning methods is its automatic feature extraction ability. This ability overcomes the risk of inefficient and time consuming hand crafted feature extraction that requires lot of hard work and expert knowledge.

Through this special session we would like to invite researchers, academicians, and students for dissemination of their research work in the direction of prediction and estimation through deep learning techniques.

(3) Topics of Interests

Topics of interests include but are not limited to:

- Theoretical / experimental results on deep learning models and architectures
- Unsupervised, semi supervised, and supervised deep learning
- Software/hardware platforms for deep learning, parallelization issues in deep learning
- Applications of deep learning in IoT, energy, environment, medical or any other domain

(4) Important Dates

- Paper Submission : ~~23 February 2017~~ 23 March 2017
- Authors Notification: 22 April 2017
- Camera-Ready Paper: 15 May 2017
- Early Registration: 15 May 2017
- Conference Date: 21-23 June 2017

(5) Program Committee

- Alessandro Sperduti, University of Padova, Italy
- Aldy Gunawan, Singapore Management University, Singapore
- Arijit Sur, Indian Institute of Technology Guwahati, India
- Ashish Anand, Indian Institute of Technology Guwahati, India
- Chrisina Jayne, Robert Gordon University, UK
- Dmitry Kangin, University Exeter, UK
- Mustafa Misir, Nanjing University of Aeronautics and Astronautics, China

- Olga Senyukova, Lomonosov Moscow State University, Russia

(6) Submission and Publication

Authors are invited to submit original previously unpublished research papers written in English, of up to 8 pages (or 10 pages with over length charge) including figures and references using IEEE Computer Society Proceedings Manuscripts style (two columns, single-spaced, 10 fonts). Please find the manuscript templates and submission related information at the CYBCONF 2017 conference webpage. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee.

Presented papers will appear in the conference proceedings, available on IEEE Xplore and submitted to be indexed in CPCI (ISI conferences and part of Web of Science) and Engineering Index (EI). The authors of selected best papers will be invited post conference to extend their contributions for special issues of prestigious journals, such as IEEE Transactions on Cybernetics, IEEE SMC Magazine, and Evolving Systems.