CALL FOR PAPERS

IEEE Transactions on Multi-Scale Computing Systems
Special Issue on Design and Applications of Neuromorphic Computing System

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TOPIC SUMMARY:
As artificial intelligence technology becomes pervasive in society and ubiquitous in our lives, the desire for embedded-everywhere and human-centric computational intelligence systems calls for an intelligent computation paradigm. However, the applications of machine learning and neural networks involve large, noisy, incomplete, natural data sets that do not lend themselves to convenient solutions from current systems. Neuromorphic systems that are inspired by the working mechanism of human brains possess a massively parallel architecture with closely coupled memory and computing. This special issue aims at the computing methodology and systems across multiple technology scales to accelerate the development the neuromorphic hardware systems and the adoption for machine learning applications. The topics of interest include, but are not limited to:

- Neuromorphic circuit, architectures, systems, and applications
- Hardware-software co-design and optimization
- Neural network applications (machine vision, machine learning, sensor network, big data, signal processing & coding, pattern recognition, nature language processing, etc.)
- Software and hardware architecture for deep learning
- Bio-inspired computing model and/or hardware design

IMPORTANT DATES:
Open for submissions in ScholarOne Manuscripts:    November 1, 2015
Closed for submissions:       January 31, 2016
Results of first round of reviews:      April 30, 2016
Submission of revised manuscripts:      May 31, 2016
Results of second round of reviews:      July 31, 2016
Publication materials due:       August 31, 2016

SUBMISSION GUIDELINES:
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