The 4th International Conference on Extreme Learning Machines (ELM2013) 
Beijing, China, October 15 - 17, 2013

Organizer: Tsinghua University, China 
Co-Organizers: Northeastern University, China; Nanyang Technological University, Singapore 
Technical Co-Sponsors: National Science Foundation, China; IEEE Computational Intelligence Society 
(pending) IEEE Systems, Man and Cybernetics Society

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Call for Papers

Extreme Learning Machines (ELM) provide efficient unified solutions to generalized feedforward networks including but not limited to (both single-hidden-layer and multi-hidden-layer) feedforward neural networks, RBF networks, and kernel learning. ELM possesses unique features to deal with regression and (multi-class) classification tasks. Consequently, ELM offers significant advantages such as fast learning speed, ease of implementation, and minimal human intervention. ELM has good potential as a viable alternative technique for large-scale computing and artificial intelligence.

Organized by Tsinghua University, Northeastern University, and Nanyang Technological University, ELM2013 will be held in Beijing, the capital of China. This conference will provide a forum for academics, researchers and engineers to share and exchange R&D experience on both theoretical studies and practical applications of the ELM technique, as well as participating in a competition on a data-centric application problem.

All submitted papers will be thoroughly reviewed to maintain a good quality and standard in order to be considered for ELM2013. Accepted papers need to be presented at the conference. Selected accepted papers will be recommended for further review for publication consideration in special issues of reputable ISI indexed international journals (IEEE Intelligent Systems, Neurocomputing, Cognitive Computation, Neural Computing and Applications). Other accepted papers will be published in special edited ELM Proceedings volumes by Springer-Verlag. No additional conference proceedings are provided.

Topics of interest: All the submissions must be related to ELM technique. Topics of interest include but are not limited to:

Theories
• Universal approximation and convergence
• Robustness and stability analysis

Algorithms
• Real-time learning/reasoning
• Sequential and incremental learning
• Kernel based algorithms

Applications
• Time series prediction
• Pattern recognition
• Web applications
• Biometrics
• Bioinformatics
• Cognitive science/computation
• Power systems
• Control engineering
• Security
• Compression
• Human computer interface
• Sentient computing / Natural language processing
• Imbalanced data processing
• Data analytics, super-ultra large-scale data processing

Paper submission: Potential authors may submit their manuscripts for publication consideration either in special issues of journals or edited book volumes. Details on manuscript submission can be found from http://elm2013.extreme-learning-machines.org.

Important dates: 
Paper submission deadline: May 15, 2013
Notification of acceptance: August 1, 2013
Registration deadline: September 1, 2013