School of Computer Science and Technology

SciForum
MOL2NET

SUIWML01: International Workshop on Machine Learning in Biomedicine, Soochow, China, 2016

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SUIWML01 Editorial

Dear all we are glad to welcome you to the SUIWML2016: Soochow University International Workshop Series on Machine Learning and its Applications in Biomedicine. This is one scientific conference series of the School of Computer Science and Technology of Soochow University, PCR, China. This is workshop also is a section of MOL2NET-2.

This workshop is focus on Machine Learning. Machine learning is the most growing branch of computer science, driven by the ongoing explosion in the availability of data. Machine learning evolved from artificial intelligence and deals with many different problems and aspects to solve various tasks, including knowledge discovery, data mining, decision support and etc. A grand challenge is to discover relevant structural patterns and/or temporal patterns in complex data, which are often hidden and not accessible to the human expert.

Biomedicine is a branch of medical science that applies biological and other natural-science principles to clinical practice. The branch especially applies to biology and physiology, which has been the dominant health system for more than a century. Nowadays, the dramatic growth of medical and biological data has created an unprecedented opportunity for machine learning in the pattern recognition and machine learning community. Many medical and biological problems involve challenging approaches to pattern discovery and learning.

This workshop aims at highlighting the on-going research both the advancement of machine learning technologies and the improvements of biomedicine, and trying to bringing together researchers from the related fields to foster discussion and elicit open problems on machine learning and its applications in biomedicine. The workshop will consist of invited talks, contributed presentations, and posters. We plan to include an opening tutorial and an overview of the state-of-the-art techniques. Invited talks will be given by leading experts from both machine learning and biomedicine. We hope this workshop will not only provide an opportunity for international researchers to exchange ideas and present the latest promising work, but also create a platform to discuss and identify important future topics and directions in related fields for further research and collaboration.

This workshop is planned to be held in middle of Nov, 2016. However, the submission **is open and the publication of communications will be ASAP after acceptance, all the year**. For more details, see Schedule & Program page and to submit a communication use the Submission link. After you successfully register, you can submit your paper online. You need to register and send your abstract first. After abstract approval you need to send your communication. Please, download and use the following template to write your communication SUIWML template

Be aware:

on step 1, you should select **MOL2NET 2016, International Conference on Multidisciplinary Sciences, 2nd edition (Conference),**

on step 2, you should select SUIWML2016: Soochow University International Workshop Series on Machine Learning and its Applications in Biomedicine.

Topics of particular interest include (but not limited to)

Machine Learning;

Supervised learning;

Unsupervised learning;

Reinforcement learning;

Transfer learning;

Manifold Learning;

Multi-task learning; and Active Learning.

Applications in Biomedicine;

Biomedical decision support systems;

Medical informatics;

Bioimage mining;

Medical (business/financial) intelligence;

Electronic medical record (EMR) data mining;

Patient (customer) relationship management.

Bioinformatics;

Cheminformatics;

Computational Chemistry;

Computer Aided Drug

Discovery; Protein structure prediction and protein fold recognition;

Disease/cancer classification; Microarray data analysis.

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(See full committee list in SUIWML2016 **official page**)