Seminar Notice

Title: **Machine Learning, Can Science Reach the Fiction?**

Speaker:

Mohammad Shahed Sorower

Ph. D candidate, Department of Computer Science, Oregon State University

Date: 29/12/2012 (Saturday)
Time: 10:30 am
Venue: IAC Seminar Room

Abstract of the Talk

Machine Learning: Can Science Reach the Fiction?

Efforts to build models of ourselves (human) is summarized as Artificial Intelligence. Machine Learning is a subpart of these efforts that help AI with understanding of organic and non-organic learning processes. With an era of research and computational bottlenecks since the invent of modern computers, machine learning today still dreams about the fictions. During the last decade machine learning made significant fundamental progress and had made contributions to large number of practical personal/social/business applications.

This talk is about a few challenging machine learning ongoing researches that I have been involved in, lessons learned and possible future directions.

The urge for Universal Reading System, with a core intelligence of understanding the content and capability of inference is the goal for Machine Reading research. Such a system should start learning from the day of its birth and keep adding knowledges autonomously.

TaskTracer is an effort to make computers smarter than the traditional ones. A computer system that understands its user and user workspaces can provide a logical task panel for the user to organize information regardless of data types or storage locations into activities or tasks. Such a system is an innovative solution to information overload and task management that can significantly reduce user efforts, errors, costs and frustrations.

A dialog system that can naturally interact with a human on a topic is a long dream of artificial intelligence. While most of these efforts failed to build a generalized intelligent agent, modern effort is to simplify the problem by building domain experts, such as a tutor in physics.

These are all ongoing research challenges in machine learning. While there is no unique absolute solution proposed so far, there are promising achievements every day and may be the fiction is not far as it seems to be!

Short Bio of the Speaker

Mohammad Shahed Sorower is a Ph. D candidate at Department of Computer Science, Oregon State University. He works with Artificial Intelligence team at OSU and his research focus is Machine Learning, Natural Language Processing and Online Learning. He finished his undergraduate studies from the Department of CSE, BUET in 2004, and achieved his Masters in Computer Engineering in 2008 from The University of Memphis, USA. During his Masters studies, Shahed had been awarded Herff Graduate Fellowship, by Herff College of Engineering, The University of Memphis, for his outstanding research and excellent academic record. He recently worked at Microsoft Research with the Machine Learning and Intelligence team, as a full-time research intern. He also did a full-time summer internship with IBM and has an excellent job record with TM International (Bangladesh) Ltd. (former Aktel).