



Distinguished Lecture Series

Transfer Learning in Text, Multimedia and Social Networks



Monday, May 23rd, 2011 10:00am
Auditorium 106 at New IIS Building

Qiang Yang

Professor, Department of Computer Science
and Engineering, Hong Kong University of
Science and Technology

Abstract

Today's data mining and machine learning applications must deal with the problem caused by a lack of high quality, annotated data. An effective solution to solving this problem is to borrow knowledge from other related but different domains. In this talk I give an overview of our recent work on transfer learning, which aims to extract knowledge from auxiliary domains that may have different data distribution and feature representations. I will first trace back to some early works in Artificial Intelligence, including learning by analogy. I will then discuss the questions of when, what and how to transfer the knowledge between domains, and present our current work on applying transfer learning to text mining, image classification and link prediction. I will conclude by discussing the potential impact of transfer learning research on some outstanding problems in artificial intelligence.

For more information: <http://www.iis.sinica.edu.tw/>

