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Computer Science Seminar Series, 2012

National Capital Region

Some Trends and Developments of Bigdata

Speaker: Prof. Li Chen
University of the District of Columbia

Friday, October 26, 2012
1:00PM- 2:00PM, NVC 325

Abstract

Big-Data technology is about the data sets from many sources and collections such as different format of data. It also has the properties of massive storage, and it requires fast analysis through a large number of computing devices including cloud computers. It may yield revolutionary breakthroughs in science and industry. BigData is a phenomenon in the current appearance of problems regarding data sets. The characteristics of BigData are: (1) Large data volume, (2) Use of cloud computing tech, (3) High level of security, (4) Potential business values, (5) Many different data sources. This talk will introduce some basic ideas of Big-Data computing. We also discuss some software systems for BigData as well as Major companies' involvements in related research and development. We will cover some hot problems in BigData and predict some future problems. (This talk is part of the collaboration with Dr. Jianping Zhang.)

Biography

Dr. Li Chen is an associate professor in computer science at the University of the District of Columbia. He is currently working on problems in image segmentation and data reconstruction. He is also interested in current development of high tech. Li received his BS, MS, and Ph.D. all in CS from Wuhan University (1982), Utah State University (1995), and University of Bedfordshire (Luton, UK, 2001), respectively. His work includes: 1) The best algorithm for the check matrix of the well-known error-correction Hsiao codes; 2) The lambda-connected search algorithm for image segmentation, a dual-technique to threshold segmentation, the most popular segmentation method.; 3) Invented the Digital-Discrete Method for Smooth-Continuous Data Reconstruction. He just gave a talk in Canada Fields Institute in Aug. 2012. http://www.udc.edu/prof/chen.