

Invited Talk by Haibin Zhu, Nipissing University, Canada

Monday, 10.12.2018, 14:50 , room APB 3105

Title:

The E-CARGO model and Role-Based Collaboration: A Decade's Review

ABSTRACT

Role-Based Collaboration (RBC) has emerged into an investigative methodology from a computational methodology with continuous research effort in the past decade. RBC uses roles as the primary underlying mechanism to facilitate collaboration activities. It consists of a set of concepts, principles, models, and algorithms. RBC imposes challenges and benefits not discovered in traditional methodologies and systems. Related research has brought and will bring in exciting improvements to the development, evaluation, management, and execution of computer-based systems including services, clouds, productions, and administration systems.

In this talk, we examine the requirement of research on collaboration systems and technologies, discuss RBC and its model Environments - Classes, Agents, Roles, Groups, and Objects (E-CARGO); review the related research achievements on RBC in the past decade; discuss those problems that have not yet been solved satisfactorily; present the fundamental methods to discover related problems with RBC and E-CARGO; and analyze the connections between other fields and RBC.

RBC and E-CARGO have been investigated for over 16 years. They grow gradually into a strong fundamental methodology and model for exploring the solutions to problems of complex systems. RBC and E-CARGO belong to the category of general methodologies and models. They have the highest abstract level and will be highly relevant to programming language design.

Audience: Researchers, Practitioners, Graduate Students or Senior Undergraduate Students of Computer Science, Computer Engineering, Information Systems, Systems Engineering, Industrial Engineering, and Administration

Bio:

Dr. Haibin Zhu is a Full Professor and the coordinator of the Computer Science Program, Founding Director of Collaborative Systems Laboratory, member of Arts and Science Executive Committee, Nipissing University, Canada. He received M.S. (1988) and Ph.D. (1997) degrees in computer science from the National University of Defense Technology (NUDT), China. He was a visiting professor and a special lecturer in the College of Computing Sciences, New Jersey Institute of Technology, USA (1999-2002) and a lecturer, an associate professor and a full professor at NUDT (1988-2000).