

The IEEE South Alberta Section's Computer Society
presents a seminar titled:

Haleakala: Providing Improved Access to Virtual Information

Speaker: Dr. Sandra K. Johnson

From IBM's Systems and Technology Group, based in North Carolina, USA



Wednesday, October 14, 2009 @ 3:00pm – 5:00 pm

WHO SHOULD ATTEND? Persons who are interested in information and knowledge discovery.

LOCATION: Room ENA 201, University of Calgary

COST: Free to IEEE members (please bring your membership card). \$3 non-members.

Abstract:

Today there is a plethora of information located in a seemingly unlimited number of knowledge repositories worldwide. While there are many search engines available that provide great access to this information, it is sometimes difficult to associate keywords with the relevant desired information. One solution to this issue, is to focus on the structures used to contain the information in such a way that new optimizations and targeted searches can be leveraged. Presented in this talk is an information enablement methodology that provides a novel structure for providing access to information in various disparate locations, facilitating a virtual integration of information. This structure is designed to provide new types of search algorithms that leverage existing algorithms, and enables more targeted searches. The structure also facilitates a better analysis of virtual information.

Speaker's Biography:

Sandra K. Johnson is a Senior Technical Staff Member at IBM. Her previous assignments include working as the Chief Technology Officer, Global Small and Medium Business for IBM Systems and Technology Group, the Linux Performance Architect, and managing the Linux Performance, WebSphere Database Development, and Java Server Performance teams within IBM development and research organizations. She has conducted research in a number of computer related areas and was part of the design team that developed the prototype for the IBM Scalable Parallel Processor (SP2), the base machine for "Deep Blue", IBM's world famous chess machine.

Dr. Johnson is a member of the IBM Academy of Technology, which consists of the top 300 of IBM's over 250,000 technical professionals. She has received numerous technical and professional awards, and is a Master Inventor, with over 40 patents issued and pending. She has authored and co-authored over 80 publications, is Editor-in-Chief of the book Performance Tuning for Linux Servers, and is author of Inspirational Nuggets and GREGORY: The Life of a Lupus Warrior.

Dr. Johnson earned B.S. (summa cum laude), M.S. and Ph.D. degrees, all in electrical engineering, from Southern University, Stanford University, and Rice University, respectively. She is a member of the Institute of Electrical and Electronics Engineers (IEEE) and the Association for Computing Machinery (ACM). She is also an IEEE Fellow and an ACM Distinguished Engineer.

Seminar Coordinator:

Dr. Vahid Garousi, PEng, vgarousi@ucalgary.ca, Computer Chapter Chair of the IEEE South Alberta Section. For more information, visit: <http://sas.ieee.ca/computer>

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