



Fall 2009 CIS Distinguished Lecture

Contributions of Applied Algorithms to Applied Computing

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*11am-Noon, Friday, September 11, 2009
4th Floor Conference Room (Wachman Hall, CC 447)*

Abstract: There are many attempts to bring together computer scientists, applied mathematician and engineers to discuss advanced computing for scientific, engineering, and practical problems. This talk is about the role and contribution of applied algorithms within applied computing. It will discuss some specific areas where design and analysis of algorithms is believed to be the key ingredient in solving problems, which are often large and complex and cope with tight timing schedules. The talk is based on recent Handbook of Applied Algorithms (Wiley, March 2008), co-edited by the speaker. The featured application areas for algorithms and discrete mathematics include computational biology, computational chemistry, wireless networks, Internet data streams, computer vision, and emergent systems. Techniques identified as important include graph theory, game theory, data mining, evolutionary, combinatorial and cryptographic, routing and localized algorithms.

Bio: Ivan Stojmenovic received Ph.D. degree in mathematics. He held positions in Serbia, Japan, USA, Canada, France, Mexico, Spain and UK (as Chair in Applied Computing at the University of Birmingham), and is Full Professor the University of Ottawa, Canada. He published over 250 different papers, and edited four books on wireless, ad hoc and sensor networks and applied algorithms with Wiley/IEEE. He is editor of over dozen journals, editor-in-chief of IEEE Transactions on Parallel and Distributed Systems (from January 2010), and founder and editor-in-chief of three journals (Journal of Multiple-Valued Logic and Soft Computing, International Journal of Parallel, Emergent and Distributed Systems, and Ad Hoc & Sensor Networks, An International Journal). Stojmenovic is in the top 0.56% most cited authors in Computer Science (Citeseer 2006). One of his articles was recognized as the Fast Breaking Paper, for October 2003 (as the only one for all of computer science), by Thomson ISI Essential Science Indicators. He is recipient of the Royal Society Research Merit Award, UK. He is elected to IEEE Fellow status (Communications Society, class 2008). He chaired and/or organized >50 workshops and conferences, and served in over 100 program committees. Among others, he was/is program co/vice-chair at IEEE PIMRC 2008, IEEE AINA-07, IEEE MASS-04&07, EUC-05&08, WONS-05, MSN-05&06, ISPA-05&07, founded workshop series at IEEE MASS, IEEE ICDCS and IEEE DCOSS, and Workshop Chair at IEEE MASS-09, ACM Mobicom/Mobihoc-07 and Mobihoc-08. He presented over dozen tutorials.

Refreshments will be served!