



McGill Computational Science and Engineering Seminar



**2:30 pm, Friday, March 18, 2005
McConnell Engineering Bldg. Rm. 13**

Residue Number System Arithmetic: Potentials, Research Areas and Future Perspectives

**Professor Andraws Swidan
Computer Engineering Department, University of Jordan**

The Residue Number system is introduced. Arithmetic operations using Residue Number System are discussed. Time and hardware complexity will be analyzed. The advantages and disadvantages of the RNS are outlined. Tendencies of research in the Residue arithmetic are reviewed.

Some research work on solving the problem of magnitude comparison (one of the difficult operations in Residue arithmetic) and utilizing the error detection and correction capabilities of the Residue arithmetic is presented.

**Coffee and snacks will be served in Room 603 after the
seminar.**