

Vision of the New World of Wireless Communications enabled with Cognition



Why should you come to this talk: Modern communication systems face a number of challenges including inefficient utilization of the radio spectrum. This talk presents innovative techniques that draw inspiration from human cognition, learning theory and game theory to battle these challenges.

Dr. Haykin will describe how ideas from cognition relate to communication systems and the progress made with traditional cognitive radio. He will present his vision for the new world of wireless communications and how cognition, inspired by the human brain, can make a significant difference.

**When: September 1, 2011
12:00 – 1:00 pm**

**Where: Greenwood Inn
3515 - 26 Street NE
Calgary, Alberta**

**RSVP required by Aug. 24
laleh@ucalgary.ca**

lunch included

About the Speaker: Dr. Simon Haykin is a pioneer in adaptive signal-processing with emphasis on applications in radar and communications. He had the vision of revisiting the fields of radar and communications from a brand new perspective. This vision became a reality in the early years of this century with his work on Cognitive Radio and Cognitive Radar that draw inspiration from human brain.

Dr. Haykin is a University Professor and the Director of Cognitive Systems Laboratory at McMaster University. He is the author/coauthor/editor of over 450 papers and 50 books. Dr. Haykin is a Fellow of the Royal Society of Canada, and a Fellow of the Institute of Electrical and Electronics Engineers (IEEE). He is the recipient of the Henry Booker Gold Medal from URSI, 2002, the Honorary Degree of Doctor of Technical Sciences from ETH Zentrum, Zurich, Switzerland, 1999, and many other medals and prizes.



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