First Workshop of Software Radio Implementation Forum

Software Radio Implementation Forum (SRIF) aims to bring together researchers working on software-defined radio to share and exchange information. To build the community and to kick-start the forum, we will hold a workshop at the Institute of Network Coding (INC) in The Chinese University of Hong Kong.

**Date & venue**
12-13 Jan, 2012
TY Wong Lecture Theatre (Talks) / Room 603 (Demos),
Ho Sin Hang Engineering Building, The Chinese University of Hong Kong

**Registration**
http://srif2012.inc.cuhk.edu.hk/

**Invited Talks**

**Prototyping Large Antenna Array System Using Rice WARP**
Dr. Erran LI

**The Open Source Community: How GNU Radio Enhances the Science of Communicating**
Dr. Tom RONDEAU

**Empower Wireless Research with the Magic of Software**
Dr. Kun TAN

**SWAN: A Wireless Testbed for IMT-Advanced Technologies**
Dr. Yang YANG

**Technical Talks**

- **Software Defined Radio Research at ITR**
  - Dr. Ying CHEN
  - Dr. Xiang CHEN
- **Reconfigurable FPGAs for Cognitive Radio**
  - Dr. Suhaib FAHMY
- **Power Allocation for Two Way Transmission with Analogue Network Coding**
  - Prof. Pingyi FAN
- **Designs and Implementation Challenges of Distributed MIMO Systems**
  - Prof. Vincent LAU
- **Joint Resource Allocation for Max-min Throughput in Cognitive Femtocell Networks**
  - Dr. Zhuo LI
- **Physical-layer Network Coding**
  - Prof. Soung Chang LIEW
- **Implementation of Physical-layer Network Coding**
  - Mr. Lu LU
- **PNC Implementation Issues on Software Radio Platform**
  - Dr. Qingyang SONG
- **WiCop: Engineering WiFi Temporal White-Spaces for Safe Operations of Wireless Body Area Networks in Medical Applications**
  - Dr. Qixin WANG
- **On Role of Multi-armed Bandit Problem in Cognitive Radio Networks**
  - Prof. Panlong YANG
  - Dr. Henry YE
- **SDR for Wireless Baseband Solutions**
  - Mr. Bo ZHANG
- **Throughput Optimization for Multi-hop Wireless Networks with Asymmetric MIMO Links**
  - Prof. Yiqing ZHOU
- **Implementation of Cellular Broadband Communication System Prototype on Software Radio Platform**

**Demonstrations**

- **Implementation of Physical-layer Network Coding**
- **Experimenting and Programming on the Sora Software Radio Platform**
- **Online Optimal Channel Sensing, Probing, Accessing in USRP Networks**
- **SWAN: A Wireless Testbed for IMT-Advanced Technologies**
- **WiCop: Engineering WiFi Temporal White-Spaces for Safe Operations of Wireless Body Area Networks in Medical Applications**

**General Chair**
Prof. Soung Chang LIEW

**Vice Chairs**
Prof. Peter CHONG
Nanyang Tech. University

Dr. Erran LI
Bell Labs

Dr. Kun TAN
Microsoft Research Asia

Prof. Shengli ZHANG
Shenzhen University