

## CALL FOR PAPERS

### ICCCN 2008: 17TH INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATIONS AND NETWORKS (<http://www.icccn.org/icccn08/>)

August 4-7 2008

Frenchman's Reef & Morning Star Marriott Beach Resort  
St. Thomas, US Virgin Islands, USA

#### [Cross-Layer Design and Optimization Track](#)

([http://icccn.org/icccn08/App\\_Themes/Theme1/Cfps/CLDO.pdf](http://icccn.org/icccn08/App_Themes/Theme1/Cfps/CLDO.pdf))

Wireless networking technologies have been experiencing tremendous growth in the past decade. These technologies will fundamentally change the way we communicate, live, and fight wars. However, due to the inherent characteristics of wireless communication and networking (e.g., broadcast medium, node mobility, power constraint, fading, high bit error rates), traditional layered network architecture is often considered inadequate to achieve the full potential of the networks. Recently, cross-layer design approaches have been proposed to improve and optimize the network performance by breaking the layer boundaries and explicitly passing information from one layer to others. This allows for better decision making and system optimization on several layers jointly.

The aim of this track is to bring together researchers and practitioners from both academia and industry in order to have a forum for discussions and technical presentations on the latest research and future research directions in the cross-layer design and optimization of wireless networks. We are seeking original and previously unpublished research papers addressing theoretical and application issues in the cross-layer design and optimization of wireless networks. Topics of interest include, but are not limited to, the following areas:

- Strategy and framework of cross-layer design
- Methodologies of cross-layer design
- Joint PHY/MAC/network/transport protocol design
- Resource allocation, QoS issue, and mobility issue of cross-layer design
- Security issue in cross-layer design
- Cross-layer design for emerging network scenarios (i.e., wireless ad hoc, sensor, mesh, and vehicle networks)
- Interactions between network layers and related issues
- Cross-layer protocol implementation and experiments
- Hardware/software architectures for cross-layer protocol stacks
- Modeling and performance evaluation of cross-layer system design
- Joint optimization of wireless networks
- Impacts of cross-layer protocol design

**Submission of Manuscripts:** Please follow the general submission instructions on the conference website.

#### **Important Dates:**

|                             |                              |               |
|-----------------------------|------------------------------|---------------|
| Paper submission:           | <del>February 17, 2008</del> | March 9, 2008 |
| Notification of acceptance: | May 12, 2008                 |               |
| Camera ready papers due:    | June 1, 2008                 |               |

#### **Track Co-Chairs:**

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