Postdoctoral, Visiting or Exchange Scholar Research Positions

Multimedia & Wireless Networks Research Group,
Electrical and Computer Engineering Department
San Diego State University
San Diego, California, USA

Project Topics:

**Wireless Networks:**
QoS-aware Cross-layer routing and MAC Protocols for MANETS, including Dynamic Spectrum Access (i.e., cognitive radio nets). The protocols would consider real-time video transmission over MANETs.

*Qualifications:* Candidate should have a Ph.D. (or a senior Ph.D. student) with significant experience in designing cross-layer and QoS-aware protocols for wireless ad hoc and cognitive radio networks. Proficiency in C/C++ is a must and experience with ns-2/Opnet is a plus. The position is available for 1 year with strong possibility for extension.

**Robust Multimedia Compression:**
* Design of Error Resiliency and Smart Packetization schemes to support real-time transmission of H.264/AVC and SVC compressed Video bitstream over multi-hop ad hoc wireless networks.
* Consideration of Physical layer issues for video transmission and interaction with network protocols.
* These schemes will require optimization of various competing factors to accomplish objectives for real-time video transmission.

*Qualifications:* Candidate should have a Ph.D. (or a senior Ph.D. student) with experience in designing robust H.264/AVC video compression schemes for transmission over wireless networks, and good knowledge of digital communication and wireless networks. Proficiency in C/C++ and Matlab is a must, and experience with ns-2/Opnet is a plus. The position is available from 6 months to 1 year.

**San Diego** is a coastal city known for its beautiful surroundings and a temperate climate. San Diego is home to many major wireless companies, including Qualcomm, Sony, Motorola, Nokia, and therefore provides excellent career growth opportunities.

Interested candidates should send email to Prof. Sunil Kumar at skumar@mail.sdsu.edu

Visit Prof. Kumar’s web page [http://attila.sdsu.edu/~kumar/](http://attila.sdsu.edu/~kumar/)