

SUSHIL SUBRAMANIAN

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EDUCATION:

- **2009-present: University of Southern California, Los Angeles, CA**
PhD Student in Electrical Engineering
- **2005-2009: Indian Institute of Technology, Kharagpur, India**
Bachelor of Technology (honors), Electronics and Electrical Communication Engineering

PUBLICATIONS/ EXTENDED REPORTS:

Conference Proceedings:

- Sushil Subramanian and Praphul Chandra, **An Incentive based Peer-to-peer Protocol for Anonymous Collaborative Mobile Streaming**, *IEEE Wireless Communications and Networking Conference 2009, Budapest, Hungary*
- Sushil Subramanian, Kundan Kumar, Bibhu Prasad Mishra, Animesh Banerjee and Debduitta Bhattacharya, **Fuzzy Logic based Content Protection for Image Resizing by Seam carving**, *2008 IEEE Conference on Soft Computing in Industrial Applications, Muroran, Hokkaido, Japan*

Technical Reports:

- Sushil Subramanian, **Compressed Sensing for Sparse Underwater Channel Estimation: Some Practical Considerations**, arXiv:1002.2677, 2008, *Communication Sciences Institute, University of Southern California, Los Angeles, CA*

Theses:

- **B.Tech. IITKGP – Behavioral Time Domain Modeling of RF Phase-Locked Loops** (May 2009)
Advanced VLSI Laboratory, Indian Institute of Technology, Kharagpur, India

INTERNSHIPS:

- **Compressed Sensing Methods in Sparse Channel Estimation** (May-July 2008)
Communication Sciences Institute, University of Southern California, Los Angeles, CA
- **Service Enhancement in Mobile Ad hoc Networks using Peer-to-peer Protocols** (May-July 2007)
Hewlett-Packard Labs, Bangalore, India

GRADUATE COURSE WORK:

- (Spring 2011) EE536b – Mixed-Signal Integrated Circuit Design (Data Converters)
- (Spring 2011) PHYS558a – Quantum Mechanics
- (Fall 2010) MATH509 – Stochastic Differential Equations
- (Spring 2010) EE536a – Mixed-Signal Integrated Circuit Design (Linear Circuits)
- (Spring 2010) EE562b – Random Processes in Engineering (Nonlinear Systems)
- (Spring 2010) EE632 – Integrated Communication Systems
- (Fall 2009) EE570a – Advanced Electromagnetic Theory
- (Fall 2009) EE562a – Random Processes in Engineering (Linear Systems)
- (Fall 2009) AME630 – Transition to Chaos in Dynamical Systems

SCHOLARSHIPS/ACADEMIC AWARDS/DISTINCTIONS:

- **USC Annenberg Graduate Fellowship** - support with full tuition and stipend for 4 years. *(2009)*
- **Best B.Tech. Thesis Award** – 55th Convocation, IIT Kharagpur, for “Behavioral Time Domain Modeling of RF Phase-Locked Loops”. *(2009)*
- **Hewlett-Packard Innovate 2008 Best Student Paper Award** – for the paper “Fuzzy Logic based Content Protection for Image Resizing by Seam Carving”, invited to HP Labs, Palo Alto to present the same. *(2008)*
- **Info-USA Junior Summer Research Internship Program** - University of Southern California, Los Angeles. *(2008)*
- **Inlaks IIT Scholar Award 2006** – support with full tuition for 3 years from the Inlaks Foundation (England) for the student with the best all round performance. *(2006)*

Drafts available at: <http://www.scf.usc.edu/~sushilsu>

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