

## DIPAK GHOSAL

### a. Professional Preparation

Indian Institute of Technology, Kanpur, India	Electrical Engineering	BTech 1983
Indian Institute of Science, Bangalore, India	Computer Science	MSc 1985
University of Louisiana, USA	Computer Science	PhD 1988
University of Maryland (UMICAS), USA	Computer Science	Postdoc 1990

### b. Appointments

- July 2004 – present: Professor, Department of Computer Science, University of California, Davis, CA 95616.
- July 1999 – June 2004: Associate Professor, Department of Computer Science, University of California, Davis, CA 95616.
- January 1996 - June 1999: Assistant Professor, Department of Computer Science, University of California, Davis, CA 95616.
- September 1990 - December 1995: Member of the Technical Staff, Bell Communications Research, Red Bank, New Jersey 07701, USA.
- September 1988 - August 1990: Research Associate, Institute for Advanced Computer Studies, The University of Maryland, College Park, MD 20742, USA.
- July 1986 - July 1988: Research Assistant, The Center for Advanced Computer Studies, University of Louisiana, Lafayette, LA, 70504, USA.
- August 1983 - December 1985: Research Fellowship, Department of Computer Science and Automation, Indian Institute of Science, Bangalore, India.

### c. Products (Five Most Related Products)

1. Yick, B Mukherjee, D Ghosal, Wireless Sensor Network – A Survey, Computer Networks Volume 52, Issue 12, 22 August 2008, Pages 2292–2330.
2. S Mueller, RP Tsang, D Ghosal, Multipath Routing in Mobile Ad Hoc Networks: Issues and Challenges, Performance Tools and Applications to Networked Systems, Lecture Notes in Computer Science Volume 2965, 2004, pp 209-234.
3. LeBrun, J., Chuah, Chen-Nee, Ghosal, D., Zhang, M., Knowledge-based opportunistic forwarding in vehicular wireless ad hoc networks, Vehicular Technology Conference, 2005. VTC 2005-Spring. 2005 IEEE 61st (Volume:4 ).
4. J Yick, B Mukherjee, D Ghosal, Analysis of a prediction-based mobility adaptive tracking algorithm, Broadband Networks, 2005. 2nd International Conference on BroadNets 2005, 3-7 Oct. 2005.
5. Kartik Pandit, Dipak Ghosal, H. Michael Zhang, Chen-Nee Chuah: Adaptive Traffic Signal Control With Vehicular Ad hoc Networks. IEEE T. Vehicular Technology 62(4): 1459-1471 (2013)

#### Other Five Significant Products

1. Behrooz Khorashadi, Fred Liu, Dipak Ghosal, Chen-Nee Chuah, Michael Zhang, "Distributed Automated Incident Detection with VGrid," IEEE Wireless Communications, February, 2011
2. Kartik Pandit, Amitabha Ghosh, Dipak Ghosal, Mung Chiang: Content Aware Optimization for Video Delivery over WCDMA. EURASIP J. Wireless Comm. and Networking 2012: 217 (2012).

3. Haiping Liu, Xiaoling Qiu, Dipak Ghosal, Chen-Nee Chuah, Xin Liu, and Yueyue Fan, "Traffic-Tracing Gateway (TTG)," The 30th IEEE International Conference on Computer Communications, IEEE INFOCOM 2011, April 10-15, Shanghai, China.
4. A. Banerjee, D. Ghosal, B. Mukherjee, and W. Feng, "Algorithms for Integrated Routing and Scheduling for Aggregating Data from Distributed Resources on a Lambda Grid" IEEE Transaction on Parallel and Distributed Systems, 2008, vol. 19, Issue 1, pp. 24-34
5. A. Banerjee, W. Feng, B. Mukherjee, and D. Ghosal, "RAPID: An End-System Aware Protocol for Intelligent Data-Transfer over Lambda-Grids," in the Proceedings of the IEEE/ACM International Parallel and Distributed Processing Symposium (IPDPS 2006), Rhode Island, Greece, April 2006.

#### **d. Synergistic Activities**

- Served in NSF and UC Core panels
- General Chair of 14 International Information Hiding Conference, Berkeley, 2013.
- Program committee member of various computer networking conferences (IEEE INFOCOM, ICCN, NDM)
- Advisor to AT&T Labs.

#### **e. Collaborators and Other Affiliations**

##### **i. Recent Collaborators (total 12 within the last 48 months)**

Mung Chiang (Professor, Princeton University), Abhinav Bhatele (LLNL), Cherita Corbett (Scientist, SRI), Biswanath Mukherjee (UC Davis), Brian Tierney (Scientist, Lawrence Berkeley Labs), Michael Zhang (Professor, UC Davis), Chen-Nee Chuah (Professor, UC Davis), Matthew Farrens (Professor UC Davis), Mehmet Balman (VMWare), Amitabha Banerjee (VMWare), Amitabha Ghosh (Apple), Guiseppe Serazzi (Milan Politechnic)

##### **ii. Graduate Advisor and Postdoctoral Sponsor**

PhD Advisor: Dr. Laxmi N. Bhuyan, Chair and Professor of Department of Computer Science, University of California, Riverside.

Post-doctoral advisor: Dr. Satish K. Tripathi, President, State University of New York at Buffalo, NY.

##### **iii. Thesis Advisor and Postgraduate-Scholar Sponsor over the last Five Years:**

*Ongoing:*

PhD: Nathan Hanford, Saeedeh Komijani, Ahmed Ahmedin, Yu Liu, Mani Amoozadeh

MS: Ross Gegan,

*Completed:*

Rennie Archibald (AT&T Labs)

Kartik Pandit (AT&T Labs)

Vishal Ahuja (Startup)

Haiping Liu (China Mobile)

Bjoin Liu (Qualcomm)

Behrooz Khorashadi (Google)

Yali Liu (AT&T Labs)

Darrel Aubrey (Google)

Harshdeep Dhat (Intel)

Total number graduate students advised: 39 (20 PhD, 19 MS)

Total number of postdoctoral scholars sponsored: 3