Ranjitha Prasad

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Indian Institute of Science, Bangalore - 560012, India

Education

- **Ph.D., Electrical Communication Engineering** 2010 - (present)
  Indian Institute of Science, CGPA: 6/8 *Bangalore, India*

- **M.S., Electrical Engineering** 2006 - 2009
  Indian Institute of Technology Madras, CGPA: 9/10 *Chennai, India*

- **B.E., Electrical Communication Engineering** 2000 - 2004
  National Institute of Engineering, Percentage: 81.58% *Mysore, India*

Research Experience

- **Ph.D., Thesis Title (tentative): Joint Channel Estimation and Data Detection in OFDM Systems Using Sparse Bayesian Learning**
  Advisor: Dr. Chandra R. Murthy, Dept. of Electrical Communication Engineering, IISc

- **M.S., Thesis Title: Robust channel estimation algorithms for MIMO OFDM systems.**
  Advisor: Dr. K. Giridhar, Dept. of Electrical Engineering, IIT Madras

Internships

- **ECSE dept., Monash University** Sept. 2012 - Dec. 2012
  Prof. Emanuelle Viterbo *Melbourne, Australia*

- **ECE dept., University of California, San Diego** Jan. 2013 - March. 2013
  Prof. B. D. Rao *San Diego, USA*

Grants

- PhD Research Fellowship from Ministry of Human Resource Development, Govt. of India

- ICASSP Travel Grant, May 2011 (Prague, Czech Republic)

- Indo-NSF grant for the internship at UC, San Diego (Jan-Mar, 2013)

- TCS Research Fellowship, Aug 2013

- TCS Travel grant: NCC 2014 (Kanpur, India)

- TCS Travel grant: ICASSP 2014 (Florence, Italy)

Publications

Journals

1. R. Prasad, C. R. Murthy, and B. D. Rao, "Joint Approximately Sparse Channel Estimation and Data Detection in OFDM Systems using Sparse Bayesian Learning", *Accepted with mandatory minor revisios at IEEE Trans. on Sig. Proc. Feb 2014*

2. R. Prasad and C. R. Murthy, "Cramer Rao-Type Bounds for Sparse Bayesian Learning", *IEEE Trans. on Sig. Proc., Jan. 2013.*

Conferences

1. R. Prasad, C. R. Murthy, and B. D. Rao, "Nested Sparse Bayesian Learning for Block-Sparse Signals with Intra-Block Correlation", *IEEE International Conference on Speech, Acoustics and Signal Processing (ICASSP), Florence, Italy, May 2014.*

2. R. Prasad, and C. R. Murthy, "Joint Channel Estimation and Data Detection in MIMO-OFDM Systems Using Sparse Bayesian Learning", *National Conference on Communications (NCC), Kanpur, India, Feb. 2014.*

3. R. Prasad, B. N. Bharath, and C. R. Murthy, "Joint Data Detection and Dominant Singular Mode Estimation in Time Varying Reciprocal MIMO Systems", *IEEE International Conference on Speech, Acoustics and Signal Processing (ICASSP), Prague, Czech Republic, May 2011.*

4. R. Prasad, C. R. Murthy, "Bayesian Learning for Joint Sparse OFDM Channel Estimation and Data Detection", *IEEE Global Telecommunication Conference (Globecom), Dec 2010.*

5. R. Prasad, K. Giridhar, "DDCT for Fast Fading Spatially Multiplexed OFDM system", *National Conference on Communications (NCC), Jan 2009*

6. R. Prasad, K. Giridhar, "Robust Channel Tracking in Fast Fading MIMO channels", *IEEE Global Telecommunication Conference (Globecom), Dec 2008.*

Work Experience

- **Signal Processing for Communications Lab, ECE, IISc**   Bangalore, India
  Project Associate   *2009 - 2010*
- **Tata Elxsi**   Bangalore, India
  Senior Design Engineer   *2004 - 2006*

References

- Dr. Chandra R. Murthy, Dept. of ECE, IISc
  Email: cmurthy@ece.iisc.ernet.in

- Prof. B. D. Rao, Dept. of ECE, UCSD
  Email: brao@ucsd.edu