

**1. Name:** Ari Mukherjee

**Academic Rank:** Associate Professor

**2. Degrees:**

BTech	Jadavpur University, India	1996
MS	University of California at Santa Barbara	1999
PhD	University of California at Santa Barbara	2002

**3. UNC Charlotte (number of years = 14)**

- Associate Professor: 2008 - present
- Assistant Professor: 2002 - 2008

**4. Other related experience:**

Software Engineer, Cadence Design Systems (1996-1997)

**5. Certifications or professional registrations:** N/A

**6. Current membership in professional organizations:** N/A

**7. Honors and awards:** N/A

**8. Institutional and professional service in the last five years:**

- Member of the ABET computer engineering focus area improvement team (FAIT) or TTG (2002 – present).
- Actively advising computer engineering students (2005 - 2013).
- Member of the Departmental Review Committee (2009-2012).
- Faculty Recruitment Committee (2015 – present)
- Faculty Recruitment and Awards Committee (2014 – present)
- President-Elect & President of the College of Engineering Faculty Executive Committee (2012 - 2014).
- Course and Curriculum Committee (2015 – present)
- University Faculty Council (2012 - 2014).
- NSF Panelist for Small Business Investigative Research (SBIR) Proposals (2010 – 2012).
- Chair, Departmental Outreach Committee (2006 - 2015).
- Traveled to several local high schools and made workshop presentations about college admission and application procedures.
- Along with Drs. Ravindran and Tolley I organized a NSF national faculty workshop on introducing reconfigurable computing at the undergraduate level, related to my NSF funded course on Hardware Acceleration using FPGAs. The workshop was held at UNC Charlotte on May 9<sup>th</sup>, 2012.

## 9. Principal publications of last five years:

- A.Kailas, V.Cecchi, and A.Mukherjee, " A Survey of Communications and Networking Technologies for Energy Management in Buildings and Home Automation", Journal of Computer Networks and Communications, Article ID 932181, 12 pages, Jan 2012.
- Datta, K., Mukherjee, A., Cao, G., Tenneti, R., Vijendra Kumar Lakshmi, V., Ravindran, A., Joshi, B.S, "CASPER: Embedding Power Estimation and Hardware-Controlled Power Management in a Cycle-Accurate Micro-Architecture Simulation Platform for Many-Core Multi-Threading Heterogeneous Processors:", J. Low Power Electron. Appl. **2012**,2, 30-68.
- A. Panday, B. Joshi, A. Ravindran, A. Mukherjee and H. P. Zaveri, "Real-Time Processing of Biomedical Streaming Data on Cell Broadband Engine", Submitted for publication, 2012.
- V.V.K. Lakshmi, A. Mukherjee and B. Joshi, "Architecture Exploration for Embedded Processors Design Framework for Embedded Bio-Medical Processors", IEEE SouthEastCon.
- R.Tenneti, A.Mukherjee, V.Cecchi and A.Kailas, "Design space exploration of heterogeneous embedded processor for the smart grid", IEEE SouthEastCon, 2012.
- R. Mitra, B. Joshi, A. Ravindran, A. Mukherjee and R. Adams, "Performance Modeling for Multiple Issue Shared Memory Multicore Machine", Third International Workshop on Parallel Software Tools and Tool Infrastructures, PSTI 2012 (submitted).
- R Mitra, B Joshi, A Ravindran, A Mukherjee, R Adams, "Performance Modeling of Shared Memory Multiple Issue Multicore Machines", 41st International Conference on Parallel Processing Workshops (ICPPW), Pittsburgh, September 10-13, 2012, ISBN 978-1-4673-2509-7.
- Guangyi Cao, Arun Ravindran, Sukumar Kamalasan, Bharat Joshi, Arindam Mukherjee, "A Cross-Stack Predictive Control Framework for Multimedia Applications", 2013 IEEE International Symposium on Multimedia (ISM), December 9–11, 2013.
- Reshmi Mitra, Bharat S. Joshi, Arindam Mukherjee, Ryan S. Adams, "Application Optimization for Shared Memory Multicores Using Markov Chain Modeling", Symposium on Principles and Practice of Parallel Programming, 2014.
- A. Mukherjee, A. Ravindran, B. Joshi, K. Datta, and Y. Liu, "Autonomous Power Management in Embedded Multi-Cores", Multi-Core Embedded Systems, Georgios Kornaros, Editor, CRC Press, 2010, 9781439811610, pp. 337-368.
- A.Kailas, V.Cecchi, and A.Mukherjee, "A survey of contemporary technologies for smart home energy management", Handbook on Green Information and Communication Systems.
- A. Mukherjee, V.Cecchi, R. Tenneti and A. Kailas, "Embedded Computing in the Emerging Smart Grid", Handbook on Green Information and Communication Systems.
- V.V.K. Lakshmi, A. Panday, A. Mukherjee and B. Joshi, "Green Computing Platforms for Biomedical Systems", Handbook on Green Information and Communication Systems, Editors M. S. Obaidat, A. Anpalagan, and I. Woungang, Elsevier, 978-0-1241-5844-3.

## 10. Professional development activities in the last five years: N/A