Nawaf I. Almoosa

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Research Interests

- Power and performance management of computing systems.
- Hardware and software implementation of signal processing algorithms.
- Modeling and control of dynamical systems.

Education

- **Georgia Institute of Technology** — Atlanta , GA
  Ph.D., Electrical and Computer Engineering — *January 2008 - December 2013*
  - Thesis: Sensitivity Analysis for Online Management of Processor Power and Performance
  - Advisors: Dr. Sudhakar Yalamanchili and Dr. Yorai Wardi
- **Georgia Institute of Technology** — Atlanta , GA
  M.Sc., Electrical and Computer Engineering — *September 2005 - December 2007*
  - Courses: Data Compression, Biological Networks, Advanced Computer Architecture, Mobile Computing
- **Khalifa University of Science, Technology and Research** — Sharjah, UAE
  B. Eng. Electronic Engineering — *1999-2004*
  - Courses: Wireless Communications, Control Systems, Vector Calculus
  - Graduation project involved the design and implementation of a novel Synchronization algorithm. Results were published in four conferences and an IEEE journal.

Selected Publications

- **Control or Computing Systems**
  - **Almoosa, N.**, Song, W, Yalamanchili, S, and Wardi, Y, "A power capping controller for multicore processor", *American Control Conference (ACC)*, 2012.
  - **Almoosa, N.**, Song, W, Yalamanchili, S, and Wardi, Y, "Throughput regulation in multicore processors via IPA", *IEEE 51st Annual Conference on Decision and Control (CDC)*, 2012.
- **Signal Processing**
  - **Almoosa, N. I.**, Bae, S, and Juang, B.H., "Towards more robust moment invariants for image registration", *IEEE International Conference on Acoustics, Speech and Signal Processing, 2008. ICASSP 2008.*, March 31 2008-April 4 2008.
  - **Almoosa, N. I.**, Bae, S, and Juang, B.H., "Incremental Parsing for Latent Semantic Indexing of Audio Information ", *Submitted to ICASSP 2009*

Skills

Programming: C/C++, LaTeX, VHDL, MATLAB, Python.

Operating Systems: Linux (Ubuntu), Solaris, UNIX, MacOS X, Windows 95/98/NT/2000/XP