

Harish K Krishnamurthy

Contact

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Summary

Looking for a full time position in the areas of quantitative/statistical/financial modeling.

Education

09/2005–05/2009 **MS**, Communication & Digital Signal Processing
Northeastern University, Boston, MA **Minor**: Mathematics
MS Thesis: Study of Algorithms to combine multiple Automatic Speech Recognition System(ASR) outputs
04/1998–04/2002 BE (BS), Electrical & Electronics Engineering
The National Institute of Engineering, Mysore, India.

Skills

Technical Areas: Applied probability, Natural Language Processing, DSP, Image processing, wavelets, stochastic processes and data clustering, machine/statistical learning, pattern recognition, Applied mathematics, numerical methods, regression analysis, linear prediction, ARMA modeling
Programming: Perl, C, Matlab, Simulink, Stateflow, C++, Fortran, cluster computing

Work Experience

01/2009–Present **Nuance Communication, Burlington, MA**
Research Intern Developed text processing scripts using natural language processing techniques in the Language Modeling (LM) speech group. **Perl, C, C++**
01/2009–05/2009 **Mitsubishi Electric Research Labs, Cambridge, MA**
Research Intern Implemented numerical methods of simulation like Runge-Kutta, AR, MA and ARMA modeling. **Perl, Matlab**
05/2008–12/2008 **Schlumberger Doll Research, Cambridge, MA**
Research Intern Implemented a linear prediction / filtering approach to populate 3D geological images given sparse data (**Patent filing in process**) and developed an innovative technique to resample 3D images. . **Matlab, Fortran**
09/2005–08/2007 **BBN Technologies, Cambridge, MA**
Research Assistant Implemented bayesian probability algorithms as applied to large scale speech data and parallelized code. **Perl, C, Matlab**
06/2004–07/2005 **Delphi Automotive Systems, Bangalore, India**
Software Engineer Worked in software development and testing of Automotive Embedded Systems. Involved in an entire project lifecycle: Design from requirements, Autocoding and deployment of automated system integration test stations in C, MATLAB, SIMULINK, STATEFLOW, TARGETLINK.
05/2003–05/2004 **Snecma Aerospace India, Bangalore, India**
Software Engineer Part of the development and testing of Embedded Aerospace Engine Control systems. Aware of DO-178B requirements. Programming **Unix, C**

Scholarships & Awards

June 9-20, 2008 *Travel Grant* to attend PIMS Graduate Industrial Math Modeling Camp and Industrial Problem Solving Workshop, Canada

Fall 2005 *Research Scholarship* for graduate studies by Northeastern University

Selected Publications

Full list at: <http://www.ece.neu.edu/~hkashyap/research.html>

Harish K Krishnamurthy, *Study of algorithms to combine multiple automatic speech recognition(asr) system outputs*, Master's thesis, [pdf], Northeastern University, Boston MA 02115, April 2009.

Luz Angelica Caudillo Mata, Harish K.K, Sadia Mwangangi, George Price, and Hugo Rodriguez Ordonez, *A probabilistic model of cancer cell survival rates given arbitrary drug combinations*, Proceedings of the Twelfth PIMS Industrial Problems Solving Workshop, PIMS IPSW 12,[pdf], (2008).

Activities

Art, Hiking, Yoga, Archery, Pool

Societies

06/2000–06/2002 Executive Committee member - IEEE student branch, National Institute of Engineering. Worked in a team towards winning *Outstanding IEEE student branch award in Region 10(Asia Pacific)*

Boston, September 30, 2009