Praneeth Narayanamurthy

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Education

B.Tech., Electrical and Electronics Engineering, National Institute of Technology Karnataka, 2014. Thesis: *Efficient-Estimation of Lightning Parameters using Genetic Algorithms*.

Ph.D., Electrical Engineering, Iowa State University, 2016 – 2020 (expected).

Work Experience

Project Assistant: July 2014 - Dec. 2015, Indian Institute of Science, Bangalore.

Graduate Courses

Probability and Random Processes, Linear Algebra, Convex Optimization, Detection and Estimation Theory, Principles of Data Science, Design and Analysis of Algorithms, Deep Machine Learning, Statistical Machine Learning

Skills

Proficient: MATLAB, LATEX,

Intermediate: Python, C++, Perl, Bash

Beginner: Julia, Scheme

Honors and Awards

Certificate of Excellence from Central Board of Secondary Education for securing 100% grade in Mathematics and Sanskrit in 10th standard – 2008

Indian National Mathematical Olympiad Awardee – 2009

Finalist of National GE Edison Challenge - 2013

Publications and Pre-Prints

 MEDRoP: Memory-Efficient Dynamic Robust PCA, Praneeth Naryanamurthy and Namrata Vaswani, manuscript.

- 2. Provable Dynamic Robust PCA or Robust Subspace Tracking, **Praneeth Narayanamurthy** and Namrata Vaswani, under review, IEEE Transactions on Information Theory.
- 3. Finite Sample Guarantees for PCA in non-isotropic and Data-Dependent Noise, *Namrata Vaswani and* **Praneeth Narayanamurthy**, extended abstract to appear, Allerton 2017, long version under revision, Annals of Statistics.
- 4. Robust PCA and Robust Subspace Tracking,
 Namrata Vaswani, Thierry Bouwmans, Sajid Javed and Praneeth Narayanamurthy,
 under review, IEEE Signal Processing Magazine.
- 5. Provably correct Robust Subspace Tracking: A Correlated-PCA-based Approach, *Brian Lois, Namrata Vaswani and* **Praneeth Narayanamurthy**, NIPS workshop on LHDS, 2016.
- 6. Efficient Resampling of speech signals in Shift-Invariant Spaces, *Gutta Sreedevi*, **Praneeth Narayanamurthy**, and Chandra Sekhar Seelamantula, NCC 2016.
- 7. Dictionary-Learning based Post-Filter for HMM-based Speech Synthesis, **Praneeth Narayanamurthy** *and Chandra Sekhar Seelamantula*, TENCON 2015.

Last updated: December 25, 2017