





Abhishek Aich

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RESEARCH INTERESTS

Computer Vision, Machine Learning, and Sparse Signal Optimization.

EDUCATION

University of California, Riverside, CA, USA

- **Ph.D. in Electrical and Computer Engineering** Sep 2018 – Present
 - Adviser: Dr. Amit K. Roy-Chowdhury | Co-adviser: Dr. M. Salman Asif
 - GPA: 3.95 / 4.00

National Institute of Technology, Tiruchirappalli, Tamil Nadu, India

- **M.S. in Electronics and Communication Engineering** 2016 – 2018
 - Thesis: Exploiting Sparsity for Direction of Arrival Estimation Algorithms in Linear Array
 - Adviser: Dr. P. Palanisamy
 - GPA: 8.80 / 10.00

Biju Patnaik University of Technology, Rourkela, Odisha, India

- **B.Tech. in Electronics and Communication Engineering** 2011 – 2015
 - Thesis: Target Tracking using Parametric Spectral Estimation Methods
 - GPA: 9.02 / 10.00

EXPERIENCE

Graduate Student Researcher

Sep 2018 – Present
CA, USA

- University of California, Riverside
 - Group: Video Computing Group
 - Supervisors: Dr. Amit K. Roy-Chowdhury and Dr. Salman Asif
 - Focus: Computer Vision and Machine Learning.

Research Scholar

Feb 2016 – Apr 2018
Tamil Nadu, India

- National Institute of Technology, Tiruchirappalli
 - Group: Signal and Image Processing Lab.
 - Supervisor: Dr. P. Palanisamy
 - Focus: Array Signal Processing, Compressed Sensing.

Teaching Assistant

Jan 2018 – Apr 2018
Tamil Nadu, India

- National Institute of Technology, Tiruchirappalli
 - Graduate Course: Digital Signal and Image Processing Lab. (EC610)
 - Supervisor: Dr. P. Palanisamy

Research Assistant

May 2014 – Aug 2015
Odisha, India

- Silicon Institute of Technology, Bhubaneswar
 - Supervisor: Prof. Utpal K. Dash
 - Focus: Array Signal Processing.

SELECTED PUBLICATIONS

- [1] Abhishek Aich, and P. Palanisamy, “A strict bound for dimension of measurement matrix for CS beamformer MUSIC algorithm,” in *IEEE Region 10 Conference (TENCON)*, Singapore, pp. 2602-2605, 2016.
- [2] Abhishek Aich, and P. Palanisamy, “A novel CS beamformer root-MUSIC algorithm and its subspace deviation analysis,” in *IEEE Region 10 Conference (TENCON)*, Penang, Malaysia, pp. 1404-1408, 2017.
- [3] Abhishek Aich, and P. Palanisamy, “On application of OMP and CoSaMP algorithms for DOA estimation problem,” in *IEEE International Conference on Communication and Signal Processing (ICCSP)*, Chennai, India, 2017.

AWARDS & SCHOLARSHIPS

- **Deans Distinguished Fellowship Award**, University of California, Riverside 2018 – Present
- **MHRD Scholarship**, Govt. of India 2016 – 2018
- **Scholar’s Club**, Silicon Institute of Technology, Bhubaneswar 2012 – 2015
 - For being in the Top 3 of the Electrical and Communication Engineering Department
- **e-Medhabruti Scholarship**, Govt. of Odisha 2012 – 2015

TECHNICAL SKILLS

- **Programming Skills:** MATLAB, Python
- **Operating System:** Windows, Macintosh, Linux
- **Others:** \LaTeX , MS Office

**GRADUATE
COURSES**

• Adv. Computer Vision • Pattern Recognition • Information Theory • Convex Optimization • State and Parameter Estimation Theory • Stochastic Processes • Sparsity, Structure, and Inference • Math. Methods for EE • Adv. Digital Signal Processing

**PROFESSIONAL
ACTIVITIES**

Conference Reviewer:

IEEE TENCON 2016, IEEE TENCON 2017

Journal Reviewer:

IEEE Transactions on Signal Processing, Taylor & Francis International Journal of Electronics Letters, IET Signal Processing