





Abhishek Aich

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RESEARCH INTERESTS

Computer Vision, Machine Learning, and Sparse Signal Optimization

- Current Focus: Continual Learning

EDUCATION

University of California, Riverside, CA, USA

- Ph.D. in Electrical and Computer Engineering
- Adviser: Dr. Amit K. Roy-Chowdhury
- GPA: 3.82 / 4.00

Sep 2018 – Present

National Institute of Technology, Tiruchirappalli, Tamil Nadu, India

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

2016 – 2018

Biju Patnaik University of Technology, Rourkela, Odisha, India

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

2011 – 2015

EXPERIENCE

Graduate Student Researcher

Sep 2018 – Present

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

CA, USA

Research Scholar

Feb 2016 – Apr 2018

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

Tamil Nadu, India

Teaching Assistant

Jan 2018 – Apr 2018

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

Tamil Nadu, India

Research Assistant

May 2014 – Aug 2015

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

Odisha, India

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
- **MHRD Scholarship**, Govt. of India
- **Scholar’s Club**, Silicon Institute of Technology, Bhubaneswar
- For being in the Top 3 of the Electrical and Communication Engineering Department
- **e-Medhabruti Scholarship**, Govt. of Odisha

2018 – Present

2016 – 2018

2012 – 2015

2012 – 2015

TECHNICAL SKILLS

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

**GRADUATE
COURSES**

• Adv. Computer Vision • Machine Learning • 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