
NITESH KUMAR CHAUDHARY

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Professional Summary

Currently looking for PhD Position that offers me excellent learning and research opportunities in the field of my interests, where i can utilize my potential and skills efficiently to achieve the best, where i can improve & enhance my technological skills and get an opportunity to learn new technology / methodology by working dedicatedly and efficiently.

Research Interest

Digital Signal Processing
Machine Learning
Digital Communication
Circuit Designing
Probabilistic Model

Experiences

Visiting Summer Research Intern, 05/2014 to 08/2014

Newyork University, AD – Abu Dhabi

Project Details: The goal of automatic speaker recognition is to recognize the speaker by extraction, characterization and speaker specific information contained in the speech signal. The voice sample of the test speaker is compared to all the known speaker models, to find the model with the closest match. The speaker verification (authentication) task is to determine whether the speaker is the person he or she claims to be.

Skill Used: MFCC, Gaussian Mixture Model, Vector Quantization, K mean Clustering

Global Internship Programme, 12/2013 to 01/2014

Indian Institute of Technology, Delhi – New Delhi

Project Details: The problem of separating sources without a priori knowledge of their number or spatial distribution is known as blind separation. Most existing techniques for approaching the problem of source separation employ Independent Component Analysis (ICA) algorithm with information maximization. We used an MDCT approach , signal representation in the modified discrete cosine transform (MDCT) domain has emerged as a dominant tool in high quality audio coding because of its special properties.

Skill Used: MFCC, ICA, GMM, Matlab, MDCT

Teaching Assistant, 05/2013 to 12/2013

LNMIIT, Jaipur – Rajasthan

Worked as "Teaching Assistant" for the course Electronics I in the odd semester of academic year 2013-14. Where, i have worked with full dedication and helped juniors in all lab experiments as well as theoretical concepts because of that i have been appreciated for technical support and dedication shown towards the work.

Summer Research Fellow, 05/2013 to 07/2013

Indian Institute Of Science, Bangalore - Karnataka

Project Details: Acoustic sound source localization in a plane using the Time Difference of Arrival Algorithm (TDOA) positioning method. We assume that the sound source is a point source and the microphones that we have used was Omni directional receiving pattern (although realistic modelling can be done). So there is a delay in the sound wave received by a pair of microphones.

Skill Used : Hyperbolic Differential Equations, GCC Phat, Matlab

Teaching Assistant, 01/2013 to 04/2013

LNMIIT, Jaipur – Rajasthan

worked as a Teaching Assistant in E-II (Electronics Principle Lab) LNMIIT in even semester of academic year 2012-2013.

Education

B.Tech: Electronics and Communication Engineering, May 2015

LNMIIT Institute Of Information Technology, Jaipur - Rajasthan

Publication

1. Nitesh Kumar Chaudhary and Shraddha Srivastav "SPEAKER IDENTIFICATION FROM YOUTUBE OBTAINED DATA"Signal & Image Processing : An International Journal (SIPIJ) Vol.5, No.5, October 2014
Link : <http://arxiv.org/abs/1411.2795>
2. Nitesh Kumar Chaudhary, Anshu Aditya and Subir Verma "Sound Source Localization using GCC-PHAT with TDOA estimation"Journal of Basic and Applied Engineering Research Vol.1, Number 11; October-December 2014
3. International Conference On "Advances in Electrical, Power Control, Electronics Communication Engineering"(AEPCECE –2014) at Jawaharlal Nehru University, New Delhi

Computer Skills

C - Programming, MATLAB, Omnet++, Verilog & VHDL, Shell Scripting & Pearl, HTML, CSS, Adobe Photoshop, LaTeX

Extra Curriculum

1. Worked as a senator during 1st Semester 2011-2012 at Student Gymkhana, LNMIIT
2. Got selected in Indian Space Research Organization (ISRO) as an Intern
3. Given Hands-on session in the two days National workshop on "Secure Biometric Authentication" at IEEE National workshop, LNMIIT, Jaipur
4. Participated in Chess competition in Desportivos "14 in an Inter College Chess Event at LNMIIT, Jaipur
5. Outstanding Performance in „ICICI Science Quiz“ at ICICI Bank Quizzical
6. Attended Techvista research symposium organized by Microsoft Research
7. Certified With Distinction by Image and video processing From Mars to Hollywood with a stop at the hospital online Course Team By "DUKE University"