Harikanth Pasinibilli

Assistant Professor
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Personal Data

Birth date:	July 26, 1987
Birth place:	Visakhapatnam, India
Nationality:	Indian
Marital status:	Married

Professional Summary

Highly motivated Assistant Professor with over 6 years of extensive teaching and research experience, seeking academic position in the right university in order to utilize my applied skills to enrich student's knowledge and update their expertise in accordance with the latest trends in the area of biomedical engineering and be a part of team and work diligently in pursuing research to improve the research standards of the university.

Interesting Areas

- Embedded systems for medical applications
- Neurological signal processing and analysis

Publications

- Sanjeev Kumar, Amod Kumar, Harikanth. **Effect of Electrical Stimulations on EEG.** Proceedings of a national conference, held at CSIO, Chandigarh, India
- Harikanth, Sanjeev Kumar, Amod Kumar, Sneh Anand, Martins Mathew. **Changes in EEG pattern by Ice Cube Cold Pressure Stimulus.** Proceedings of a national conference, held at SLIET, Punjab, India

Professional Experience

Dec '10 – Present   **Assistant Professor**

Dept. of Biomedical Engineering, Gayatri Vidya Parishad College of Engineering for Women, Visakhapatnam, Andhra Pradesh, India

- Assiduously involved in design and implementation of IoT based embedded systems for medical applications
- Pursuing research in the area of matlab based neural applications
- Handling theoretical and practical sessions to graduate students in Bio-Medical Equipment, Signal & Image Processing, Rehabilitation Engineering and Artificial Neural Networks
- Supervised over 12 bachelor's projects which are Matlab and hardware based

Project Associate

PEDAL – Physiological Evaluation & Data Analysis Laboratory, GVP group of institutions, Visakhapatnam, Andhra Pradesh, India

- Data acquisition and analysis of Gait
- Implementation of optimized methods for gait analysis

Jul '09 - Apr '10	**Research Trainee**
	Central Scientific Instruments Organisation, Sector 32, Chandigarh, India

- ➢ Mastered in Matlab programming and labchart
- ➢ Demonstrated current progress of work to the delegates visiting the institute and competed with colleagues for completion of the tasks

Jun '10 - Nov '10	**Biomedical Engineer**
	Sevenhills Hospital, Visakhapatnam, Andhra Pradesh, India

- ➢ Troubleshooting of SPO2, ECG and patient monitors
- ➢ Maintenance of record of all hospital equipment

Academic Qualifications

Master of Technology in Biomedical Engineering   **May, 2010**

Vellore Institute of Technology University, Vellore, Tamilnadu, India
Secured a CGPA of 8.21

Master's Thesis:
- ➢ Title: Analysis of Effect of Pain in EEG to Compute Analgesia Index for Balanced Anesthesia Monitoring
- ➢ Organization: Central Scientific Instruments Organization (CSIO), Chandigarh.
- ➢ Duration: 10 months (July 2009 to April 2010)
- ➢ Description: The work involved was analyzing mathematical parameters under normal and pain conditions. EEG data was recorded and analyzed using Labchart and Matlab GUI tools. This analysis might be helpful for computing analgesia index, for controlling the corresponding drugs for better balanced anesthesia monitoring.

Bachelor of Technology in Biomedical Engineering   **April, 2008**

Godavari Institute of Engineering and Technology (Affiliated to JNT University, Hyderabad), Rajahmundry, Andhra Pradesh, India
Secured First class with distinction of 76%

Bachelor's Dissertation:
- ➢ Title: Design of an Economic Portable Anesthetic Machine
- ➢ Organization: Godavari Institute of Engineering & Technology, Rajahmundry
- ➢ Duration: 5 months (December 2007 to April 2008)

Description: The idea was to design a prototype of an anesthesia machine which is economic and portable. It contains basic functionality viz. yoke assembly, pressure regulators, Rota meters, and excess flush supply for oxygen and outlet y-shape mouth piece. All piping was replaced with PVC.

Certifications & Training

- ➢ Actively participated in one week national level faculty development program on "Advanced Digital Signal Processing and Applications" organized by NIT Warangal and MVGR, Vizianagaram, A.P.   **Nov '16**
- ➢ Completed IEEE organized "hands on training program using SCILAB for signal and image processing" at M.S. Ramaiah Institute of Technology, Bangalore, Karnataka, India   **Jun '14**
- ➢ Secured course of accomplishment on "Statistical Analysis of fMRI Data", online course conducted by Johns Hopkins University on Coursera website   **Apr '14**
- ➢ Certified in Visual DSP++ programming for signal and image processing at Indian Institute of Technology Madras, Tamilnadu, India   **May '12**
- ➢ Successfully completed three short term training courses "Operation and Maintenance of Clinical Lab Equipment, X-ray and darkroom systems and ICU equipment" at Advanced Training Institute for Electronics and Process Instrumentation, Hyderabad, Telangana, India   **Aug '10**

Activities & Honors

- ➤ My project titled "AD Shadow - Smart Healthcare Application for Tracking Alzheimer's Patient's Location, Heart Rate, SPO2" has been shortlisted as one of the best among 25 design ideas for implementation and also for funding from over 560 applications in a national level IoT design contest organized by Maxim Integrated.
- ➤ Ratified as an Assistant Professor in university level from JNT University Kakinada, Andhra Pradesh, India
- ➤ Achieved First prize in the poster presentation at a national conference that was held at Punjab, India
- ➤ Attained Second position in the Biomedical Engineering department for overall performance of the academics during graduation level
- ➤ Participated in a National workshop on "Cognitive Science and Neuro-Signal Processing" at Osmania University, Hyderabad, Andhra Pradesh, India

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