Amirhossein Safari

RESEARCH INTERESTS

♦ **Sleep Study**
Sleep Stage Detection Using ECG & EEG Signal.
Sleep Disorders: Obstructive & Central apnea.
Brain Mapping During REM and NREM Sleep Stages Using EEG.
Pediatric Sleep Study.

♦ **EEG Signal Processing**
Feature Extraction and Classification of Cognitive and Neurodegenerative Disorders.

♦ **Brain Mapping**.
Combined EEG and fMRI Brain study.
Event related potentials.

♦ **ECG Signal Processing**
Arrhythmia Detection.
Heart Rate Variability.
ECG-Derived Respiration.
ECG Segmentation.

CONTACT

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ABOUT ME

I am the supervisor of BSP Lab, helping all members with their projects. The main focus of my research in the past two years has been on computational neuroscience with the emphasis on Brain's functional connectivity using EEG and Sleep Study. Apart from my enthusiasm for learning more, I enjoy watching F1 racings and Hitchhiking with my friends. If you want to know more about my projects, please visit my website and feel free to ask me your questions. I am always ready to collaborate with projects in the field of neuroscience.

EDUCATION

♦ K. N. Toosi University of Technology *Tehran, Iran*

M.Sc. IN BIOMEDICAL ENGINEERING - BIOELECTRIC
2015-2018

Thesis: "Reducing False Arrhythmia Alarms in the ICU Using Multimodal Bio-signals"

♦ Petroleum University of Technology *Ahvaz, Iran*

B.Sc. IN ELECTRICAL ENGINEERING - CONTROL
2010-2015

Senior Design Project: "Designing a Fuzzy Expert System for Heart Disease Diagnosis"