

Mahtab Mehrabbeik (1995 Tehran, Iran)

Martital Status: Single

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Education

- Ph.D. in Biomedical Engineering (Bioelectric), Amirkabir University of Technology, Tehran, Iran (2020-present)
- M.Sc. in Biomedical Engineering (Bioinformatics), Amirkabir University of Technology, Tehran, Iran (2018-2020)
- B.A in Biomedical Engineering (Bioelectric), Islamic Azad University, Science and Research Branch Tehran, Iran (2014-2018)
- Diploma in math, Mohajer Iravani high school, Tehran, Iran (2010-2014)

Projects

- Cuff-less Estimation of Systolic and Diastolic Blood Pressure Using PPG signal
- Mitral Valve Prolapse Detection Using Heart Sound Signal (PCG)

Skills

MATLAB, Python, Biological Signal Processing, Biological Image Processing, Artificial Neural Networks, Convolutional Neural Networks, Deep Learning, Data Mining, Chaos, Nonlinear systems, Complex Networks.

English:

- Reading and Writing (professional)
- Speaking and Listening (moderate)

Articles

- Estimation of Systolic and Diastolic Pressure using the Pulse Transit Time
- Computerized Diagnosis of the Prolapsed Mitral Valve Using Heart Sound Signal

- Phonocardiography-Based Mitral Valve Prolapse Detection with Using Fractional Fourier Transform
- Critical slowing down indicators in synchronous period-doubling for salamander flicker vision
- A New Circumscribed Self-Excited Spherical Strange Attractor
- Synchronization and chimera states in the network of electrochemically coupled memristive Rulkov neuron maps
- A New Self-Excited Full-Quadratic Strange Attractor and Its Twin Strange Repeller (accepted-not published)
- A New Chaotic System with Coexisting Attractors Separated by a Spherical Shield (accepted-not published)