



## Zahra Sadat Hosseini

Assistant Professor

College: Faculty of Biomedical Engineering

### Education

Degree	Graduated in	Major	University
BSc	1389	Electrical engineering - electronics	Sharif University of Technology
MSc	1391	Biomedical engineering - bioelectrics	Sharif University of Technology
Ph.D	1398	Biomedical engineering - bioelectrics	Amirkabir University of Technology

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
Biomedical engineering faculty	Academic staff	On Contract	Full Time	1

### Papers in Conferences

1. sadegh Marzban , Zahra sadat Hosseini , Farzad Towhidkhah , S. Mohammad Reza Hashemi Golpayegani.A New Approach to Modeling Parkinson's Disease with Sine-Circle Map.7th Congress of Basic and Clinical Neuroscience، تهران، ۲۰۱۸، ۱۲ ۱۲.

### Papers in Journals

1. Zahra Sadat Hosseini ,& Seyed Mohammad Reza Hashemi Golpayegani,Esophageal epithelium modeling based on globally coupled map: an approach toward precancerous lesion diagnosis,Medical & Biological Engineering & Computing,pp. 1297–1308,2020 4 1.
2. Nazanin Zandi et al.,One dimensional map-based neuron model: A phase space interpretation,Chaos, Solitons & Fractals,2020 3 1.
3. Zahra Sadat Hosseini و Seyed Mohammad Reza Hashemi Golpayegani.Esophageal Epithelium Modeling based on Globally Coupled Maps with the approach of Precancerous Lesions Diagnosis.Iranian Journal of Biomedical Engineering، ۲۰۱۹ ۲ ۲۵.
4. Zahra Sadat Hosseini , Seyed Mohammad Reza Hashemi Gholpayeghani , Masoud Sotoudeh , Reza

Malekzadeh, A fractal based approach to evaluate the progression of esophageal squamous cell dysplasia, *Biomedical Signal Processing and Control*, pp. 273-289, 2019 2 1.

5. JC Sprott , S Jafari , VT Pham , ZS Hosseini, A chaotic system with a single unstable node, *Physics Letters A*, pp. 2030-2036, 2015 9 25.

6. Z. S. Hosseini و سایر, Wireless Heart Beat and Respiratory Rate Monitoring Using a Short-range Wireless System, *Iranian Journal of Biomedical Engineering*, شماره صفحات ۲۷۷-۲۸۵, ۲۰۱۵-۲۰۱۶ ۶ ۶.

7. Discrimination between different degrees of coronary artery disease using time-domain features of the finger photoplethysmogram in response to reactive hyperemia, *Biomedical Signal Processing and Control*, pp. 282-292, 2015 4 1.