Fatemeh Parastesh

PhD candidate
Biomedical Engineering Faculty, Amirkabir University of Technology, 424 Hafez Ave, 15875-4413, Tehran, Iran
Email: f.prstsh@gmail.com; parastesh@aut.ac.ir
Mobile: +989126902512
ResearchGate link:
https://www.researchgate.net/profile/Fatemeh-Parastesh?ev=hdr_xprf
Google Scholar link:
https://scholar.google.com/citations?user=qhInvx0AAAAJ&hl=en&oi=ao

Education

Sep 2017 – up now	Amirkabir University of Technology Doctor of Philosophy (Ph.D.), Biomedical Engineering Tehran, Iran
Sep 2014 – Aug 2017	Amirkabir University of Technology Master of Science (MSc), Biomedical Engineering Tehran, Iran
Sep 2010 – Aug 2014	Amirkabir University of Technology Bachelor's degree, Biomedical Engineering Tehran, Iran

Research interests

Computational Neuroscience; Nonlinear dynamics; Chaos; Complex networks; Synchronization; Chimera states

Computers skills

Basic: C, C++, Pspice, Codevision, FPGA
Advanced: Matlab, Latex

Teaching Assistantship

2015: Electrical circuits
2015-2017: Engineering Mathematics
2018-2020: Chaos and its application in biomedical engineering

Languages

Persian: Native
English: Advanced
Arabic: Familiar

****

Scientific information

- ✓ Number of SCI journal papers: **37**
- ✓ Total citation according to Google Scholar: **472**
- ✓ h-index: **13**
- ✓ i10-index: **16**

High impact factor papers

- Fatemeh Parastesh, Sajad Jafari, Hamed Azarnoush, et al. "Chimeras." Physics Reports (2020). (IF=25.6)
- Parastesh, Fatemeh, and Sajad Jafari. "Different properties of neuronal networks matter for the emergence of chimera states. Comment on" Chimera states in neuronal networks: A review" by Majhi et al." Physics of life reviews 28 (2019). (IF=11.025)

Highly cited papers

TITLE	CITED BY	YEAR
Synchronizability of two neurons with switching in the coupling F Parastesh, H Azarnoush, S Jafari, B Hatef, M Perc, R Repnik Applied Mathematics and Computation 350, 217-223	50	2019
Nonstationary chimeras in a neuronal network Z Wei, F Parastesh, H Azarnoush, S Jafari, D Ghosh, M Perc, M Slavinec EPL (Europhysics Letters) 123 (4), 48003	50	2018
A fractional-order model for the novel coronavirus (COVID-19) outbreak K Rajagopal, N Hasanzadeh, F Parastesh, II Hamarash, S Jafari, ... Nonlinear Dynamics 101 (1), 711-718	40	2020
Imperfect chimeras in a ring of four-dimensional simplified Lorenz systems F Parastesh, S Jafari, H Azarnoush, B Hatef, A Bountis Chaos, Solitons & Fractals 110, 203-208	34	2018
Effects of partial time delays on synchronization patterns in Izhikevich neuronal networks M Shafiei, F Parastesh, M Jalili, S Jafari, M Perc, M Slavinec The European Physical Journal B 92 (2), 1-7	31	2019
Effects of different initial conditions on the emergence of chimera states Z Faghani, Z Arab, F Parastesh, S Jafari, M Perc, M Slavinec Chaos, Solitons & Fractals 114, 306-311	31	2018
Chimeras F Parastesh, S Jafari, H Azarnoush, Z Shahriari, Z Wang, S Boccaletti, ... Physics Reports	24	2020
Birth and death of spiral waves in a network of Hindmarsh–Rose neurons with exponential magnetic flux and excitable media F Parastesh, K Rajagopal, FE Alsaadi, T Hayat, VT Pham, I Hussain Applied Mathematics and Computation 354, 377-384	23	2019

Review experiences in SCI journals:

- Applied Mathematics and Computation
- AEU - International Journal of Electronics and Communications
- Chaos Solitons & Fractals
- The European Physical Journal Special Topics
- Physics Letters A
- International Journal of Bifurcation and Chaos

References

- Dr. S. Jafari, Thesis supervisor, Amirkabir University of Technology, Iran
  Email: *sajadjafari83@gmail.com*
  https://scholar.google.com/citations?user=tiCsmt8AAAAJ&hl=en&oi=ao

- Dr. M. Perc, Research supervisor, University of Maribor, Slovenia
  Email: *matjaz.perc@gmail.com*
  https://scholar.google.com/citations?hl=en&user=nfY5WDMAAAAJ

- Dr. K Rajagopal, Research supervisor, Chennai Institute of Technology, Chennai, India
  Email: *rkarthiekeyan@gmail.com*
  https://scholar.google.com/citations?hl=en&user=rY9lLOsAAAAJ

,