

Electrical Engineering – Electronics and

/ Telecommunications

Soheila

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وب سابت:

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يروفايل علم سنجى:

Education

- B.Sc: , Electrical Engineering Electronics, 1387→1391
- M.Sc: Amirkabir University of Technology, Electrical Engineering- Electronics (Digital), 1391→1393
- Ph.D: Amirkabir University of Technology, Electrical Engineering- Electronics (Digital), 1394→1397

Research Interests

■ Digital electronics - artificial intelligence - neuromorphic systems - hardware implementation of neural networks

Professional Experiences

■, 1401→1402

Journal Papers

■ Efficient digital design of the nonlinear behavior of Hindmarsh-Rose neuron model in large-scale neural population

Soheila Nazari, Shabnam Jamshidi Scientific Reports, Vol.14, 2024

■ Digital design of a spatial-pow-STDP learning block with high accuracy utilizing pow CORDIC for large-scale image classifier spatiotemporal SNN

Mohammad Kazem Bahrami, Soheila Nazari Scientific Reports, Vol.10, pp. 1-23, 2024

■ A Novel Un-supervised Burst Time Dependent Plasticity learning approach for Biologically Pattern Recognition Networks

Masoud Amiri, Amir Homayoun Jafari, Bahador Makkiabadi, Soheila Nazari, Marc M. Van Hulle INFORMATION SCIENCES, Vol.622, pp. 1-15, 2023

■ A novel learning approach in deep spiking neural networks with multi-objective optimization algorithms for automatic digit speech recognition

Melika Hamian, Karim Faez, Soheila Nazari, Malihe Sabeti JOURNAL OF SUPERCOMPUTING, Vol.-, pp. 1-26, 2023

■ DEU-Net: Dual-Encoder U-Net for Automated Skin Lesion Segmentation

Ali Karimi, Karim Faez, Soheila Nazari IEEE Access, Vol.11, pp. 134804-134821, 2023

■ Designing Very Fast and Accurate Convolutional Neural Networks With Application in ICD and Smart Electrocardiograph Devices

Alireza Keyanfar, GHaderi Reza, Soheila Nazari, Behzad Hajimoradi, Leila Kamalzadeh IEEE Access, Vol.11, pp. 5502-5516, 2023

■ A new full closed-loop brain-machine interface approach based on neural activity: A study based on modeling and experimental studies

Masoud Amiri, Soheila Nazari, Amir Homayoun Jafari, Bahador Makkiabadi Heliyon, Vol.9, pp. 1-19, 2023

- Recognizing intertwined patterns using a network of spiking pattern recognition platforms Masoud Amiri, Amir Homayoun Jafari, Bahador Makkiabadi, Soheila Nazari Scientific Reports, Vol.12, 2022
- Spiking image processing unit based on neural analog of Boolean logic operations Soheila Nazari, Alireza Keyanfar, Marc M. Van Hulle Cognitive Neurodynamics, Vol.-, pp. 1-12, 2022
- A New Brain-Machine Interface Algorithm Based on Neural Firing: A Study Based on Modeling masoud amiri, bahador makkiabadi, amirhomayoun jafari, Soheila Nazari Journal of Neurodevelopmental Cognition, Vol.5, pp. 38-54, 2022
- A Novel Unsupervised Spatial-Temporal Learning Mechanism in a Bio-inspired Spiking Neural Network Masoud Amiri, Amir Homayoun Jafari?, Bahador Makkiabadi, Soheila Nazari Cognitive Computation, Vol.15, pp. 694-709, 2022
- Neuromorphic circuit based on the un-supervised learning of biologically inspired spiking neural network for pattern recognition

. Soheila Nazari, Alireza Keyanfar, Marc M. Van Hulle ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, Vol.116, 2022