RESEARCH ASSISTANT VEDAT BURAK YUCEDAG

Personal Information

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Education Information

29 July 2019 – Continues
Doctorate, Erciyes University, Faculty of Engineering, Department of Electrical-Electronics Engineering
Cumulative Grade Point Average: 3.81 / 4.00

26 January 2017- 22 July 2019 (2 Year 6 Month)
Postgraduate, Erciyes University, Faculty of Engineering, Department of Electrical-Electronics Engineering
Cumulative Grade Point Average: 3.69 / 4.00

31 August 2010 – 22 June 2014 (3 Year 10 Month)
Undergraduate, Selcuk University, Faculty of Engineering, Department of Electrical-Electronics Engineering
Cumulative Grade Point Average: 3.09 / 4.00

Experience Information

28 October 2016 – Continues (Full Time)
Research Assistant, Erciyes University, Faculty of Engineering, Department of Electrical-Electronics Engineering, Circuits and Systems Theory

Foreign Language Information

English, B1 Intermediate

Research Areas/Topics

Computational Neuroscience
Artificial Neural Networks
Neuron Models
Implementation of Neuron Models
Noise in Neuron
Noise in Neural Networks
Python
MATLAB
Raspberry Pi

Books

YUCEDAG V. B., DALKIRAN I., Obtaining A High Order Polynomial Using Curve Fitting For Known Membrane Potential Values, Multidisipliner Alanlarda Yeni Trendler (157 - 172), ISBN: 978-625-8109-90-0: Duvar Yayınları, Books Chapter

Articles

YUCEDAG V. B., DALKIRAN I., Recalculation of Lost Information in Neuron with Quadratic Spline Interpolation, European Journal of Science and Technology, 2022, 2148-2683, 40, 132-137.

Refereed Congress / Symposium Publications in Proceedings

YUCEDAG V. B., DALKIRAN I., Implementation of Izhikevich Neuron Model Using Raspberry Pi, Oral presentation, 2. International Symposium on Innovative Approaches in Scientific Studies ISAS-2018, 30 November 2018, 02 December 2018, 2687-5527, 3, 1239 - 1241.

YUCEDAG V. B., DALKIRAN I., Investigation of Change in Membrane Potential because of Application of Various Excitatory Currents of Morris-Lecar Neuron Model, Oral presentation, UMTEB III. International Vocational and Technical Sciences Congress, 21 June 2018, 22 June 2018, 823 - 823.

YUCEDAG V. B., DALKIRAN I., A Sample Central Pattern Generator Implementation on Raspberry Pi, Oral presentation, ISIA 2017, International Symposium on Industry 4.0 and Applications, 12 October 2017, 14 October 2017, 227 - 230.

Supported Projects

DALKIRAN I., YUCEDAG V.B., Project Supported by Erciyes University, Higher Education Institutions. "Investigation of its Effects on Noise Concept and Synchronization in Neuron", 2020 –

YUCEDAG V.B, THE SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TÜRKİYE, Research Scholarship and Support Directorate, 2214-A Overseas Research Scholarship Program (for PhD students), Eligible for Scholarship, 2022 –

YUCEDAG V.B, THE SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TÜRKİYE, Event Supports and Education Scholarships Directorate, 2211- A General Domestic PhD Scholarship Program, Supported, 2022 –