Contribution ID: **199** Type: **Oral**

Modeling of a formal neuron using digital electronics

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Abstract

The mathematical model of the formal neuron was implemented by digital electronics devices using a microcontroller based on the microprocessor of the ARDUINO family. Analysis of the results of the test experiment showed that the maximum value of the relative error in calculating the hyperbolic tangent of the input signal does not exceed 1,7%.

Type of Book of Abstracts

Paperback

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Session Classification: Radio Engineering and Communication

Track Classification: Radio Engineering and Communications