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Proceeding - 2019 International Conference of Artificial Intelligence and Information Technology, ICAIIT 2019 • Pages 469 - 474 • March 2019 • Article number 8834546 • 1st International Conference of Artificial Intelligence and Information Technology, ICAIIT 2019 • Yogyakarta • 13 March 2019through 15 March 2019 • Code 151944

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-153868448-1

DOI

10.1109/ICAIT.2019.8834546

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A Neural network based approach for predicting Indonesian teacher engagement index (itei)

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Abstract

The Indonesian Teacher Engagement Index (ITEI) is an instrument designed to help teachers detect themselves through self-diagnostics. In this study we use the Neural Network approach to predict Index values and assess parameters in the Neural Network. The analysis of this study is based on several variables including the input layer of the proposed ANN model as many as 28 parameters obtained from the ITEI application related to the teacher index value. After training our network we

obtain a Root Mean Square Error of around 0.2%. The best model that can be suggested by the Neural Network to sample the Indonesian Teacher Engagement Index (ITEI) is in the condition when the Learning rate value: 0.3, momentum: 0.5, Number of Hidden Layer: 2 where the number of Neurons in layer 1 is 6 and Neuron in layer 2 is equal to 6. © 2019 IEEE.

Author keywords

Neural Network; Teacher Engagement

Indexed keywords 

SciVal Topics  

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Funding details 

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