

To: Editor-in-Chief,
Indonesian Journal of Electrical Engineering and Computer Science

Dear Sir/Madam,

SUBMISSION OF ARTICLE FOR *INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE*

The above matter is referred.

2. I am sending herewith a copy of the manuscript (type: research), which I would like to submit to *Indonesian Journal of Electrical Engineering and Computer Science*.

*The paper is entitled:	Lifetime estimation of DC XLPE cable insulation using BPNN-IPM improved with various schemes and optimization methods
*Corresponding Author:	Miftahul Fikri
*Name:	Miftahul Fikri
*Address :	Institute of High Voltage & High Current (IVAT) Block P06, Universiti Teknologi Malaysia Johor Bahru 81310 Malaysia
*E-mail :	miftahul@itpln.ac.id

3. I hereby certify that:

- 3.1 The article represents original work, that has not been published or under consideration for publication elsewhere.**
- 3.2 In the event that Indonesian Journal of Electrical Engineering and Computer Science publishes my work, I hereby transfer, assign, or otherwise convey all copyright ownership to Indonesian Journal of Electrical Engineering and Computer Science.**


4. Context and importance of the submitted work and appropriate for the journal

The contributions of this paper are (1) improvement scheme for the BPNN and hybrid BPNN-IPM models so that the best model scheme is obtained; (2) Each model scheme improvement is optimized using gradient descent (GD), genetic algorithm (GA) and Levenberg-Marquardt (LM) methods to obtain a new formulation and convergence analysis to overcome minimal data limitations; (3) The improvement model is applied with variations in input-output data normalization to obtain the best DC XLPE cable insulation lifetime estimation.

I hope your favorable consideration for publication to *Indonesian Journal of Electrical Engineering and Computer Science*.

Thank you.

Yours sincerely,

Signature	:	
Name	:	Miftahul Fikri
Address	:	Institute of High Voltage & High Current (IVAT) Block P06, Universiti Teknologi Malaysia Johor Bahru 81310 Malaysia
Tel. No	:	+62813 3624 1948
Date	:	14 February 2024