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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah : Optimization of neural network for cancer microRNA biomarkers classification

Jumlah Penulis : Tiga (Adi Wibowo, PW Wiryawan, NI Nuqoyati)

Status Pengusul : Penulis ke 1 (Satu)

Identitas Prosiding :

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c. Thn Terbit, Tempat Pelaks. : 2019. 26 September 2018, Central Java, Indonesia.

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2. **Ruang lingkup dan kedalaman pembahasan:**
Ruang lingkup paper ini membahas tentang pentingnya optimasi model neural network untuk deteksi dini kanker payudara menggunakan data microRNA. Pembahasan sangat baik dan lengkap.

3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
Data-data hasil yang diperoleh dalam penelitian baik dengan didukung metodologi yang tepat dengan jumlah referensi kurang dari 5 tahun sejumlah 12.

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Semarang, 3 April 2023

Reviewer 1



Prof. Dr. Rahmat Gernowo, M.Si.
NIP. 196511231994031003
Unit Kerja: Fakultas Sains dan Matematika
Universitas Diponegoro
Jabatan Fungsional : Guru Besar

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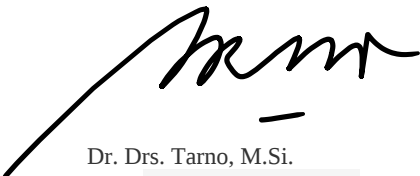
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2. **Ruang lingkup dan kedalaman pembahasan:**
Ruang lingkup dalam paper membahas secara rinci tentang peran microRNA dalam kanker payudara, pengklasifikasian kanker menggunakan Neural Network Backpropagation, dan hasil eksperimen optimisasi dan penyetelan parameter terbaik untuk klasifikasi kanker menggunakan fitur microRNA.

3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
Dalam studi tersebut, telah diperoleh sekumpulan informasi yang didukung oleh metodologi yang tepat dan didukung oleh referensi yang terbaru, yaitu kurang dari 5 tahun yang lalu, dengan total sebanyak 12.

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Dr. Drs. Tarno, M.Si.
NIP. 196307061991021001
Unit Kerja: Fakultas Sains dan Matematika
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Optimization of neural network for cancer microRNA biomarkers classification

Wibowo A. ; Wiryawan P.W.; [Nuqoyati N.I.](#) [Save all to author list](#)

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Cancer is still a significant problem for people today because it is one of the biggest causes of death in the world. Based on GLOBOCAN data in 2018, breast cancer accounted for the world's largest cancer mortality rate in women by 6.6% with total deaths amounting to 626,679 from 2,088,849 cases of cancer in the world. The high mortality rate of breast cancer is caused by the lack of effective early detection of the disease. MicroRNAs play an essential role in regulating cell division cycles, apoptosis, senescence, migration and cell invasion, and metastasis. The expression of microRNA in breast cancer shows a pattern compared to normal breasts, thus indicating its role as a potential diagnostic marker. Cancer classification using microRNA as a feature has been done in previous studies using Neural Network Backpropagation, however without optimization and tuning parameters. In this paper, we investigated the best optimization algorithm and tuning parameter of neural network

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backpropagation for cancer classification using microRNA feature. The optimization algorithms were Gradient Descent, Momentum, AdaGrad, AdaDelta, RMSProp, and Adam. The result of the experiment showed that Adam and RMSPop optimizer produced high accuracy which reached 98.536% and 98.54762% accuracy. © Published under licence by IOP Publishing Ltd.

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PREFACE

The 8th International Seminar on New Paradigm and Innovation on Natural Sciences and Its Application (ISNPINSA-8) is annual seminars organized by Faculty of Sciences and Mathematics (FSM) Diponegoro University and has been successfully conducted since 2011. The ISNPINSA-8 was held in Semarang, Indonesia on September 26th 2018. The aims of ISNPINSA are to facilitate brain storming and state of the art information in field of sciences and mathematics; to increase innovation of technology that can be applied in industries; to contribute in formulating strategy to increase the role of science for community; and to stimulate collaboration between industries, researchers and government to increase community welfare. The theme of 8th ISNPINSA in 2018 is “*Science and Applied Science for Sustainable Development Goals*”.

The number of participants of the seminar were 272 including keynote speakers, invited speakers, oral presenters, poster presenters, and non presenters coming from various institutions of various countries, including Japan, Philippines, Thailand, Malaysia, Australia, Bangladesh, China, Kazakhtan, Vietnam and those who come from all parts of Indonesia consist of researchers, lecturers, postgraduate and undergraduate students from various universities. There are 272 papers were presented in this seminar, consist of 5 keynote speakers, 237 oral presentations, and 30 poster presentations. After the selection process, there are 184 articles selected papers to be published in the present conference proceeding. This is the largest number of papers and participants for eight times the implementation of ISNPINSA. The scope of the field of participants comes from various fields including biology, physics, chemistry, statistics, mathematics, informatics, environment, public health, and relevant fields that contribute to sustainable development.

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Opening ceremony by Dr.Eng. Ali Khumaeni (Chairman of The 8th ISNPINSA 2018)



Welcoming speech by Prof. Dr. Widowati (Dean of Faculty of Science and Mathematics, Diponegoro University)



Welcoming speech by Prof. Dr. Ambariyanto, M.Sc (Vice Rector of Research and Innovation, Diponegoro University)



Photo session (Vice Rector of Diponegoro University, Dean of Faculty of Science and Mathematics, Keynote Speakers, and Committee)



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Low phosphate latosol soil utilization for cotton plants cultivation by modifying soil structure and vam fertilizer application

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The comparison of distribution patterns of macrobenthic assemblages adjacent floating net cage areas at Karang Lebar Island, Jakarta: a multivariate approach

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Antimicrobial activity of the combination of red galangal (*Alpinia purpurata* K. Schum) and cinnamon (*Cinnamomum burmanii*) essential oils on *Escherichia coli* and *Staphylococcus aureus* bacteria

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Simulation of Rainfall-runoff process using HEC-HMS model for Garang Watershed, Semarang, Indonesia

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The swiss webster mice testes structure after exposed to ethanolic neem (*Azadirachta indica*) leaf extract

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In vitro, antioxidant activity and cream formulation of alkaloid extracts *Perna viridis*

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Effect supplementation of turmeric powder (*Curcuma longa* L.) on histomorphometric duodenal female *Melopsittacus undulates*

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The species diversity of avifauna in Bukit Cinta Klaten in supporting the development of birdwatching area of Gunung Gajah Village Klaten

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