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

Judul Karya Ilmiah : Classification and identification the most important features of cervical cancer based on the expression of microRNA gene with the random forest (RF) algorithm

Jumlah Penulis : Tiga (EA Aziz, Adi Wibowo, PW Wirawan)

Status Pengusul : Penulis ke 2 (Dua)

Identitas Prosiding : a. Judul Prosiding : Journal of Physics: Conference Series,
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2. Ruang lingkup dan kedalaman pembahasan:

Ruang lingkup paper ini membahas tentang penelitian untuk mendeteksi kanker serviks secara dini dengan menggunakan biomarker non-invasif yaitu MicroRNA(miRNA). MiRNA memiliki peran penting dalam keganasan kanker dan dapat digunakan untuk diagnosis dan pemantauan kanker. Namun, penelitian sebelumnya masih menggunakan metode klasifikasi yang kurang akurat. Oleh karena itu, dalam penelitian ini, dilakukan penggunaan algoritma Random Forest yang memiliki performa generalisasi yang lebih baik dan kurang rentan terhadap overfitting

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Unit Kerja: Fakultas Sains dan Matematika

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Ruang lingkup paper ini membahas tentang penggunaan algoritma Random Forest dalam klasifikasi kanker serviks secara dini dengan menggunakan miRNA sebagai biomarker. Metode yang digunakan adalah pengumpulan data sampel, ekstraksi miRNA, normalisasi data, dan klasifikasi menggunakan algoritma Random Forest. Penelitian ini juga mencari fitur-fitur penting yang berpengaruh dalam proses klasifikasi dengan menggunakan metode feature selection.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

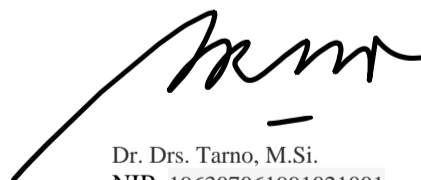
Dalam studi tersebut, telah diperoleh sekumpulan informasi yang didukung oleh metodologi yang tepat dan didukung oleh referensi yang terbaru, yaitu kurang dari 5 tahun yang lalu, dengan total sebanyak 11.

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Cervical cancer is the leading cause of death women in the world and number one in Indonesia. An effort that can be done for this case is early detection, for example, an IVA test (visual inspection test with acetic acid). However, the IVA test is not able to indicate patients who have potential cancer before cancer's physical characteristics are seen. Thus a new solution is needed for early detection of cervical cancer that can indicate patients who have potential cancer before cancer's physical characteristics are seen. In recent years, various types of miRNA that play a role in cancer malignancies have been identified and can be used as non-invasive biomarkers for cancer diagnosis and monitoring. The use of classification based on miRNA gene expression is a solution for early detection, but the use

of high accuracy classification algorithms is something that must be considered. Random Forest (RF) algorithm is the solution to these problems because better generalization performance and is less susceptible to overfitting. In this study also identified important features that are very influential in the classification process. The results showed that the Random Forest algorithm was able to have 100% accuracy for classification and most important features supporting the cancer were miR-549c-5p, miR-183 and miR-515-5p. © 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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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)



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