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Journal of Physics: Conference Series • Open Access • Volume 1943, Issue 1 • 14 July 2021 • Article number 012111 • 10th International Seminar on New Paradigm and Innovation of Natural Sciences and its Application, ISNPINSA 2020 • Virtual, Online • 24 September 2020 through 25 September 2020 • Code 170730

Document type

Conference Paper • Bronze Open Access

Source type

Conference Proceedings

ISSN

17426588

DOI

10.1088/1742-6596/1943/1/012111

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Design data collection tool and weighting classification of authors in their scholar outputs based on percent-contribution-indicated (PCI) method

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Abstract

The advancement of information technology development makes it researchers easier to read papers shortly after they are published online. A paper will be cited, usually within one to two years after the paper is published. The number of citations of a researcher's papers is currently an indicator of his/her scholarly impact. The measurement widely used is the H-index. The calculation of the impact of the

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researcher using the H-index method does not calculate the weighted classification of the author's position on each paper. The main author or co-authors score have the same weighted citation weighted of an article cited. The weighting of the number of citations obtained by the author has begun to get attention by Scientometricians in recent years. This is done to differentiate the value of the impact obtained by the main author and co-author. Since 2015, the Government of Indonesia has awarded a number of awards to Indonesian researchers who have the greatest impact value. Assessment of the impact value of researchers in Indonesia uses the Sinta Index version 1 (SI-1) which is based on the researcher's H-index value in Scopus, GS, and WoS. Problems arise when a researcher with most of his papers as a co-author gets an award, while another researcher who has a position as the main author does not get the award, even though the number of papers and the number of citations obtained are relatively similar. In 2020, we found that Sinta Index was upgraded, namely Sinta Index version 2 (SI-2). There are some differences between versions 1 and 2. This paper will propose a mechanism for calculating the impact of researchers using the weighting of the investigator's position based on the percent-contribution-indicated (PCI) method. The data source used was the Scopus database. To get and classified the source data, we developed a tool using API. For the rank of the researcher, we used data from the Sinta Index website. Collection software design created using PHP and Mysql. From the research results, it was found that the correlation test by Pearson's Method of the H-index values of APW and Scopus is 0,44; APW vs GS (0,39) and GS vs Scopus is 0.95. This means that APW method has a weak correlation with the H-index values of GS and Scopus. APW is independent of the two h-index calculations. © Published under licence by IOP Publishing Ltd.

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Accepted papers received: 27 May 2021

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Design data collection tool and weighting classification of authors in their scholar outputs based on percent-contribution-indicated (PCI) method

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Journal of Physics: Conference Series, Volume 1943, 10th International Seminar on New Paradigm and Innovation of Natural Sciences and its Application (ISNPINSA) 2020 24-25 September 2020, Indonesia

Citation A F Rochim *et al* 2021 *J. Phys.: Conf. Ser.* **1943** 012111


DOI 10.1088/1742-6596/1943/1/012111

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Abstract

The advancement of information technology development makes it researchers easier to read papers shortly after they are published online. A paper will be cited, usually within one to two years after the paper is published. The number of citations of a researcher's papers is currently an indicator of his/her scholarly impact. The measurement widely used is the H-index. The calculation of the impact of the researcher using the H-index method does not calculate the weighted classification of the author's position on each paper. The main author or co-authors score have the same weighted citation weighted of an article cited. The weighting of the number of citations obtained by the author

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value of the impact obtained by the main author and co-author. Since 2015, the Government of Indonesia has awarded a number of awards to Indonesian researchers who have the greatest impact value. Assessment of the impact value of researchers in Indonesia uses the Sinta Index version 1 (SI-1) which is based on the researcher's H-index value in Scopus, GS, and WoS. Problems arise when a researcher with most of his papers as a co-author gets an award, while another researcher who has a position as the main author does not get the award, even though the number of papers and the number of citations obtained are relatively similar. In 2020, we found that Sinta Index was upgraded, namely Sinta Index version 2 (SI-2). There are some differences between versions 1 and 2. This paper will propose a mechanism for calculating the impact of researchers using the weighting of the investigator's position based on the percent-contribution-indicated (PCI) method. The data source used was the Scopus database. To get and classified the source data, we developed a tool using API. For the rank of the researcher, we used data from the Sinta Index website. Collection software design created using PHP and Mysql. From the research results, it was found that the correlation test by Pearson's Method of the H-index values of APW and Scopus is 0,44; APW vs GS (0,39) and GS vs Scopus is 0.95. This means that APW method has a weak correlation with the H-index values of GS and Scopus. APW is independent of the two h-index calculations.

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