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## The role of volleyball combined with mental health education on college students' Dissociative Identity Disorder

Chao Ye and Haitao Ye\*

Nanchang Normal College of Applied Technology, Nanchang 330000, China  
\*Corresponding author.

**Background.** Dissociative Identity Disorder (DID) is a serious psychological disorder that can have a serious impact on patients' daily life and social relationships. Based on this, the study applies the combination of volleyball and mental health education to the study of DID in college students.

**Subjects and Methods.** The study chose 80 college students from a university as the research subjects and randomly divided them into an experimental group and a control group, 40 in each. The experimental group received volleyball sports combined with mental health education, while the control group received conventional education. Speech oddity, indifference, and abnormal behavior were used as evaluation indexes, and relevant data were collected, and data analysis was processed by SPSS23.0.

**Results.** The average scores of the experimental group and the control group in terms of speech eccentricity were 2.5 and 3.8; the average scores of apathetic behavior were 1.2 and 2.5 respectively; and the average scores of perverse behaviors lifting were 1.5 and 2.8. The results of the t-test showed that there was a significant difference between the two groups in terms of evaluation indexes ( $P < 0.01$ ).

**Conclusions.** Volleyball combined with mental health education helps to improve the mental health of college students and reduce the risk of DID. It helps to promote the mental quality education of college students.

## Contrimetric: Article Citation Contribution Indicator for paper impact evaluation

Kristine Kuo

Director of Partnerships, Contrimetric LLP, Kuala Lumpur 63000, Malaysia  
Email: Kristine@contrimetric.com

**Background.** The Journal Impact Factor (JIF), generated by Eugene Garfield in 1964, is a well-known and widely accepted

indicator for evaluating journal influence when scholar submit their papers to different periodicals. Different paper has its own citation performance after published online. Thus, the JIF is always changing in each year when times updates. This paper introduces a newly designed bibliometric indicator, Article Citation Contribution Indicator (ACCI), named as Contrimetric (from Contribution Metric). The indicator meets the criteria as it has special characteristics, such as easy to understand, open, innovating, and applicable to different publications. Based on the Journal Impact Factor (JIF), the ACCI is a new indicator that measures the impact of individual papers within a specific journal. Treating a journal as an independent scientific community, each paper can be viewed as a community member, with  $ACCI > 0$  indicating that the paper's academic impact has a greater impact than the community average, while  $ACCI < 0$  indicates that the paper's academic findings, innovations, spreading and impact are below the community average. The ACCI ranges theoretically in  $[-1, \infty]$ , with  $ACCI = -1$  for papers with zero citations after publication.

**Subjects and Methods.** For purpose of exploring the positive (or negative) effects of an author's single article on the improvement of journal impact factor, we proposed the ACCI. It is defined as a specific value to calculate the contribution of a single paper to its discipline or journal, its equation is shown as below:

$$ACCI = \frac{c_y - JIF_y}{JIF_y} \quad (1)$$

$C_y$  refers to the number of citations of an article in present JCR year; and JIF indicates the Journal Impact Factor in present JCR year. Then the differences between  $C_y$  and JIF taking up of the total JIF in present JCR year is the value of ACCI.

**Results.** It can be calculated that the value of ACCI is -1 when the paper has 0 citation. The value range of ACCI is theoretically in  $[-1, +\infty)$ . When  $ACCI \in [-1, 0)$ , it indicates that the article has a lower value than the average citation level or has brought negative effect on JIF; and when  $ACCI \in (0, +\infty)$ , it indicates that the article citations is higher than average level and has brought a positive contribution in terms of citations. Furthermore, its innovation, new discoveries contribute higher level than other papers. Hereafter, we might treat each journal as a specific scientific community in its field.

Let's have an example to compute any article. We retrieved the article as below: Abdelmageed, S. and T. Zayed, A study of literature in modular integrated construction - Critical review and future directions. *Journal of Cleaner Production*, 2020. 277. DOI:10.1016/j.jclepro.2020.124044. The article was published in 2020, and the total cites received in 2021 and 2022 was 13 and 24. The 2021 and 2022 Impact Factor of *Journal of Cleaner Production* were both 11.1, thus  $ACCI-1(\text{Contributing Factor}) = (13-11.1)/11.1 = +0.17$ ,  $ACCI-2(\text{Contributing Factor}) = (24-11.1)/11.1 = +1.16$ . This paper had brought positive effect on the JIF. This paper had been higher citations in influence than others.

**Conclusions.** The ACCI is an important index for scholars to carry out research and academic journal editors to select proper papers. For authors, who can use ACCI to categorize articles from a particular journal or in a particular year, the articles that  $ACCI > 0$  would fell into positive group, then use other bibliometric tools to mine the specific scientific view. And for academic journal editors, the author's citing performance can be reflected by their ACCI report. Therefore, the bibliometric index-Article