Nanang Supriadi <nanangsupriadi@radenintan.ac.id>

[RED] Acuse de recibo del envío

1 message

Miguel Zapata Ros via Revistas Científicas de la Universidad de Murcia <editum@um.es> Thu, Sep 30, 2021 at 1:18 AM
Reply-To: Miguel Zapata Ros <mzapata@um.es>
To: Farida <farida@radenintan.ac.id>, Nanang Supriadi <nanangsupriadi@radenintan.ac.id>, Siska Andriani <siskaandriani@radenintan.ac.id>, Dona Dinda Pratiwi <donadindapratiwi@radenintan.ac.id>, Rosida Rakhmawati Muhammad <muhammadr@uni.coventry.ac.uk>

Hola,

Suherman Suherman ha enviado el manuscrito "STEM-based computer science: its impact on students' metaphorical thinking skill" a Revista de Educación a Distancia (RED).

Si tiene cualquier pregunta no dude en contactarme. Le agradecemos que haya elegido esta revista para dar a conocer su obra.

Miguel Zapata Ros

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Revista de Educación a Distancia (RED)

Nanang Supriadi <nanangsupriadi@radenintan.ac.id>

[red] Editor Decision

1 message

Miguel Zapata-Ros via Scientific Journals of the University of Murcia <editum@um.es> Sat, Jan 1, 2022 at 3:03 PM
Reply-To: Miguel Zapata-Ros <mzapata@um.es>
To: Farida <farida@radenintan.ac.id>, Nanang Supriadi <nanangsupriadi@radenintan.ac.id>, Siska Andriani <siskaandriani@radenintan.ac.id>, Dona Dinda Pratiwi <donadindapratiwi@radenintan.ac.id>, Suherman Suherman <suherman@edu.u-szeged.hu>, Rosida Rakhmawati Muhammad <muhammadr@uni.coventry.ac.uk>

Farida, Nanang Supriadi, Siska Andriani, Dona Dinda Pratiwi, Suherman Suherman; Rosida Rakhmawati Muhammad:

We have reached a decision regarding your submission to Distance Education Journal, "STEM-based computer science: its impact on students' metaphorical thinking skill".

Our decision is to: Accept Submission, conditional on what the reviewers' comments apply to.
There are two favorable reviews to publish and one to the contrary. You must apply even the observations of the negative report.
There is a revision in Spanish, you will need to translate and apply it.
You have until January 7.

Miguel Zapata-Ros, PhD in Computer Science
Honorary Professor at the University of Murcia. Spain.
orcid.org/0000-0003-4185-5024
Investigador de la Web of Science ID L-3217-2013
Editor of RED. Revista de Educación a Distancia.

Reviewer A:

Results of the review, the article is written in English entitled "STEM-based computing: its impact on the metaphorical thinking ability of students", has an extension of 5579 words. Its basic structure complies in a general sense with the rules of the magazine:

1. The title of the article is 10 words, first the title in English and below the title in Spanish
2. Abstract 157 words (same, first abstract and then abstract in Spanish).
3. Keywords (3).
4. Article text. the format of the magazine template is met.
5. References: meets journal standards

The evaluation criteria of the article that justify the decision to make modifications before its publication, are based on the following axes: A topic of general interest in the STEM field is addressed since the differences in the metaphorical thinking capacity of the students are identified. students. students. students in Indonesia. The errors detected are important and limit the progress of the article if they are not corrected, so an improvement is proposed by referring to the following points:

- Title: at the discretion of the authors, specify the field of action of the research. See example in attached document.
- Summary: ok, although the problem generated by the research can be briefly added. See attached document.
- Introduction: the subtitle is in Spanish.
- Theoretical framework: ok
- Methodology: The Kolmogorov-Smirnov test is used to test the null hypothesis of which data set comes from a normal distribution. Where does the data come from?
- Results, generally adequate, see document.
- Discussion: see attached document.
- Conclusions, it should be modified and expanded at least two more paragraphs to maintain consistency of style in the text.

Recommendation: Revisions Required

Reviewer B:

El artículo se dedica a un problema muy interesante y actual en el tiempo moderno, a saber estudio de modelo educativo STEM. La educación STEM (Science, Technology, Engineering, Mathematics) es un modelo que combina las asignaturas de ciencia e ingeniería en un único sistema. Este enfoque nos enseña a considerar los problemas en su conjunto, y no en términos de un solo campo de la ciencia o la tecnología. Los resultados presentados de la investigación nos muestran la eficacia del modelo. La validez estadística de los resultados parece convincente. Por el rigor cientifica recomendaría dar una formulación formal de hipotesis H0 (ausencia de diferencias entre grupos) y presentar algunos ejemplos de pretest y postest con escala de estimación de capacitación de los alumnos.

Recommendation: Accept Submission

Reviewer C:

The proposal is interesting and focuses on an emerging issue. I consider that its greatest strength is the statistical tests performed. However, the following aspects of the proposal need to be improved:

In the proposal, it is commented that there is no research that is combining STEM and Computer Science. However, in the literature these articles were found:

- Lee, A. (2015). Determining the effects of computer science education at the secondary level on STEM major choices in postsecondary institutions in the United States. Computers & Education, 88, 241-255.

- Lee, O., & Campbell, T. (2020). What science and STEM teachers can learn from COVID-19: Harnessing data science and computer science through the convergence of multiple STEM subjects. Journal of Science Teacher Education, 31(8), 932-944.

- Sassler, S., Michelmore, K., & Smith, K. (2017). A Tale of two majors: Explaining the gender gap in STEM employment among computer science and engineering degree holders. Social Sciences, 6(3), 69.

The main areas of improvement of the proposal are described below:

- In the methodology, a broader description of the three activities that were carried out in the study (STEM-CS, STEM and normal teaching sequence in the curriculum) is required, which would allow the differences between them to be recognized.

- In the conclusions, it is required to expand them and include the future lines of this research.

Regarding experimentation, it is commented that it is not visualized that there is a significant difference between STEM-CS and STEM (Figure 4). Therefore, I do not agree with the authors' assertion that metaphorical thinking among students improved significantly after the application of STEM-CS.

I consider that the work has potential. However, it is necessary to describe more extensively both the methodology and the results obtained. This would allow the reader to better understand the contribution of the STEM-CS training model.

Recommendation: Decline Submission

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2 attachments

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121K

A-493721-Texto del artículo-1759611-1-4-20210929 rev IMGV.docx
118K

Nanang Supriadi <nanangsupriadi@radenintan.ac.id>

[red] Editor Decision

1 message

Miguel Zapata-Ros via Scientific Journals of the University of Murcia <editum@um.es> Sat, Jan 15, 2022 at 2:38 PM
Reply-To: Miguel Zapata-Ros <mzapata@um.es>
To: Farida <farida@radenintan.ac.id>, Nanang Supriadi <nanangsupriadi@radenintan.ac.id>, Siska Andriani <siskaandriani@radenintan.ac.id>, Dona Dinda Pratiwi <donadindapratiwi@radenintan.ac.id>, Suherman Suherman <suherman@edu.u-szeged.hu>, Rosida Rakhmawati Muhammad <muhammadr@uni.coventry.ac.uk>

Farida, Nanang Supriadi, Siska Andriani, Dona Dinda Pratiwi, Suherman Suherman; Rosida Rakhmawati Muhammad:

The editing of your submission, "STEM approach and computer science impact the metaphorical thinking of Indonesian students'," is complete. We are now sending it to production.

This phase is coordinated by Dr Avello. Follow their instructions please

Submission URL: https://revistas.um.es/red/authorDashboard/submission/493721

Miguel Zapata-Ros, PhD in Computer Science
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Editor of RED. Revista de Educación a Distancia.