LEMBAR PEER REVIEW
HASIL PENILAIAN SEJAWAT SEBIDANG
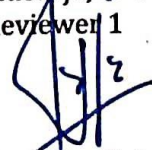## KARYA ILMIAH: JURNAL ILMIAH INTERNASIONAL

Judul Artikel Ilmiah : *Elementary students' perceptions of 3Dmetric: A cross-sectional study*

Penulis Artikel Ilmiah : **Mohammad Faizal Amir***, Niko Fediyanto, Hendra Erik Rudyanto, Dian Septi Nur Afifah, Hasan Said Tortop

Status Penulis : ~~Mandiri~~ / Utama / ~~Anggota~~ (*Penulis Korespondensi)

Identitas Jurnal Ilmiah :
- a. Nama jurnal : **Heliyon (Q1)**
- b. Vol. / No. : 6 / 6
- c. Edisi : June 2020
- d. Penerbit : Elsevier
- e. Halaman : 1 - 8

Kategori Publikasi Jurnal Ilmiah : (beri ✓ pada kategori yang tepat)
- ☑ Jurnal Ilmiah Internasional Bereputasi
- ☐ Jurnal Ilmiah Internasional

Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah (isikan di kolom yang sesuai)		
	Jurnal Ilmiah Internasional bereputasi (Maks. 40)	Jurnal Ilmiah Internasional (Maks. 20)	Nilai Akhir Yang Diperoleh
Kelengkapan dan kesesuaian unsur isi jurnal (10%)	4		2,4
Ruang lingkup dan kedalaman pembahasan (30%)	12		6,0
Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12		6,0
Kelengkapan unsur dan kualitas penerbit (30%)	12		7,2
Total = (100%)	40		
Kontribusi pengusul (penulis ~~Mandiri~~ / Utama / ~~Anggota~~)	60%		21,6

KOMENTAR/ULASAN *PEER REVIEW*

Kelengkapan dan kesesuaian unsur isi jurnal	Memenuhi kelengkapan dan unsur² isi jurnal.
Ruang lingkup dan kedalaman pembahasan	Ruang lingkup pend. mat. cukup dan pembahasan dg komparasi temuan lain
Kecukupan dan kemutahiran data/informasi dan metodologi	Sumber referensi cukup baru dan bagus
Kelengkapan unsur dan kualitas penerbit	Penerbit terindeks scopus Q1 sdg sangat baik.
Relevansi artikel dengan bidang ilmu penulis	Sesuai bidang keilmuan pendidikan matematika.
Indikasi plagiasi	Plagiasi kesamaan 7% cukup ori sinal

Sidoarjo, 5 Februari 2022
Reviewer 1

Prof. Dr. Tatag Yuli Eko Siswono, M.Pd.
NIP 197107082000031001
Unit kerja : FMIPA UNESA
Jabatan Fungsional : Guru Besar
Bidang Ilmu: Pendidikan Matematika

Judul Artikel Ilmiah   :   *Elementary students' perceptions of 3Dmetric: A cross-sectional study*
Penulis Artikel Ilmiah   :   **Mohammad Faizal Amir***, Niko Fediyanto, Hendra Erik Rudyanto, Dian Septi Nur Afifah, Hasan Said Tortop
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	Jurnal Ilmiah Internasional bereputasi (Maks. 40)	Jurnal Ilmiah Internasional (Maks. 20)	Nilai Akhir Yang Diperoleh
Kelengkapan dan kesesuaian unsur isi jurnal (10%)	4		3,5
Ruang lingkup dan kedalaman pembahasan (30%)	12		11,5
Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12		11,2
Kelengkapan unsur dan kualitas penerbit (30%)	12		11,8
Total = (100%)	40		38
Kontribusi pengusul (~~penulis Mandiri~~ / Utama / ~~Anggota~~)	60%		22,8

KOMENTAR/ULASAN *PEER REVIEW*	
Kelengkapan dan kesesuaian unsur isi jurnal	Lengkap dan sesuai unsur isi jurnal
Ruang lingkup dan kedalaman pembahasan	Ruang lingkup memadai dan cukup dalam
Kecukupan dan kemutahiran data/informasi dan metodologi	Data cukup dan mutakhir
Kelengkapan unsur dan kualitas penerbit	lengkap, kualitas bagus
Relevansi artikel dengan bidang ilmu penulis	Sangat relevan
Indikasi plagiasi	7 %

Sidoarjo, 3 Februari 2022
Reviewer 2

Dr. Masriyah, M.Pd.
NIP : 1960021989032002
Unit kerja : FMIPA UNESA
Jabatan Fungsional : Lektor Kepala
Bidang ilmu : Pendidikan Matematika

KETERANGAN JURNAL INTERNASIONAL BEREPUTASI

→ **Heliyon (Scopus Q1), SJR 2021 (0.555), dengan Penerbit Elsevier**

→ **Heliyon memiliki (*CiteScore rank 2021*) atau peringkat 22 dari 120 Journal pada**
Multidisciplinary Category

Sumber: https://www.scopus.com/sourceid/21100411756

Source details

Feedback >   Compare sources >

Heliyon
Open Access ⓘ

Scopus coverage years: from 2015 to Present

Publisher: Elsevier

  E-ISSN: 2405-8440

Subject area: (Multidisciplinary)

Source type: Journal

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CiteScore 2021	ⓘ
4.0	

SJR 2021	ⓘ
0.550	

SNIP 2021	ⓘ
1.270	

CiteScore   CiteScore rank & trend   Scopus content coverage

> **ⓘ Improved CiteScore methodology**
>
> CiteScore 2021 counts the citations received in 2018-2021 to articles, reviews, conference papers, book chapters and data papers published in 2018-2021, and divides this by the number of publications published in 2018-2021. Learn more >   ✕

CiteScore 2021 ▾

$$4.0 = \frac{31{,}820 \text{ Citations } 2018 - 2021}{7{,}880 \text{ Documents } 2018 - 2021}$$

Calculated on 05 May, 2022
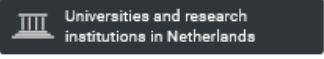
CiteScoreTracker 2022 ⓘ

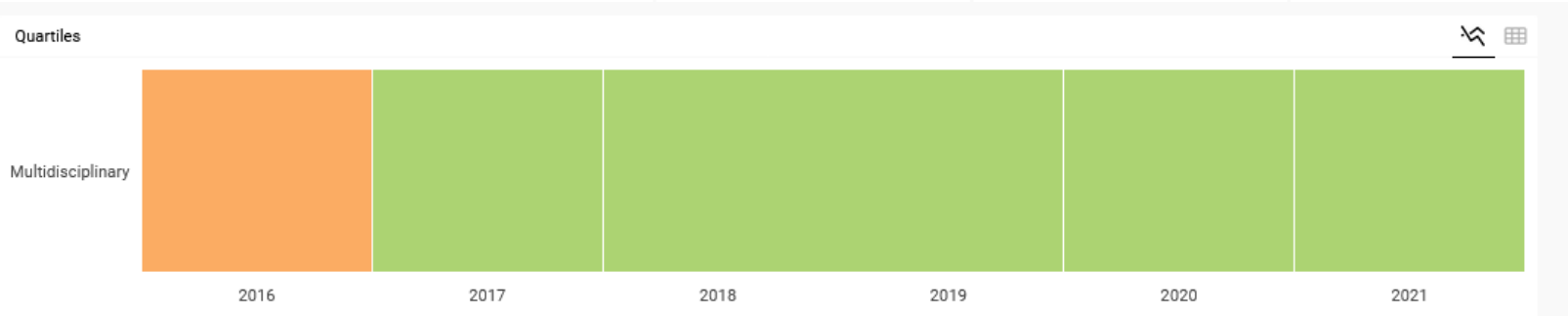$$4.9 = \frac{39{,}848 \text{ Citations to date}}{8{,}134 \text{ Documents to date}}$$

Last updated on 05 July, 2022 • Updated monthly
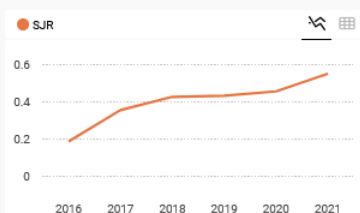
CiteScore rank 2021 ⓘ

Category	Rank	Percentile
Multidisciplinary		
└ Multidisciplinary	#22/120	82nd

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Heliyon 🔓

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	H-INDEX
Netherlands	Multidisciplinary └ Multidisciplinary	Elsevier BV	**46**

Universities and research institutions in Netherlands

PUBLICATION TYPE	ISSN	COVERAGE	INFORMATION
Journals	24058440	2015-2021	Homepage How to publish in this journal c.schulz@cell.com

Quartiles — Multidisciplinary: 2016, 2017, 2018, 2019, 2020, 2021
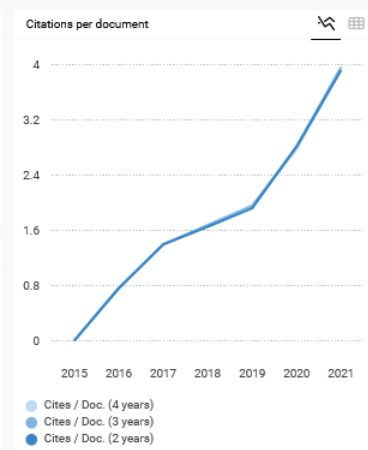
SJR · Total Documents · Total Cites / Self-Cites · Citations per document
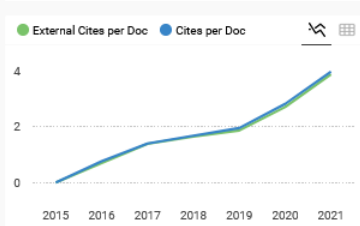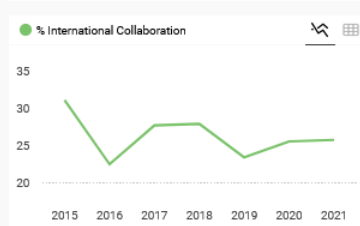
External Cites per Doc / Cites per Doc · % International Collaboration · Citable documents / Non-citable documents · Cites / Doc. (4 years) / Cites / Doc. (3 years) / Cites / Doc. (2 years)

Cited documents / Uncited documents

Heliyon — Q1 Multidisciplinary best quartile — SJR 2021 0.55 — powered by scimagojr.com

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Keterangan Korespondensi by Email→ Permintaan Revisi

received all of the reviewers' comments on your recent submission to Heliyon.

Active

3 of 3

Decision on submission HELIYON-D-19-03061R1 to Heliyon Inbox

Heliyon <em@editorialmanager.com>

to me

Sat, Mar 7, 2020, 12:10 PM

Manuscript. Number.: HELIYON-D-19-03061R1
Title: The elementary students' perceptions upon augmented reality: A cross-sectional study
Journal: Heliyon

Dear Mr Amir,

We have now received all of the reviewers' comments on your recent submission to Heliyon.

The reviewers have advised that your manuscript should become suitable for publication in our journal after appropriate revisions.

If you are able to address the reviewers' comments, which you can find below, I would like to invite you to revise and resubmit your manuscript. Please note that Heliyon focuses on technically correct science and you are only expected to include revisions that are necessary to ensure that the content and the conclusions of the research are technically correct.

We ask that you respond to each reviewer comment by either outlining how the criticism was addressed in the revised manuscript or by providing a rebuttal to the criticism. This should be carried out in a point-by-point fashion as illustrated here: https://www.cell.com/heliyon/guide-for-authors#Revisions

To allow the editors and reviewers to easily assess your revised manuscript, we also ask that you upload a version of your manuscript highlighting any revisions made. You may wish to use Microsoft Word's Track Changes tool or, for LaTeX files, the latexdiff Perl script (https://ctan.org/pkg/latexdiff).

To submit your revised manuscript, please log in as an author at https://www.editorialmanager.com/heliyon/, and navigate to the "Submissions Needing Revision" folder under the Author Main Menu.

I look forward to receiving your revised manuscript.

Kind regards,

Cathryn Magno, PhD

Associate Editor - Education

Heliyon

Editor and Reviewer comments:

Reviewer #1: This paper proposes to perform a cross study on elementary students' perceptions upon augmented reality. However, the article is not well written. English needs to be proof read by a native speaker. Introduction and Literature review part is quite weak; the contribution of the article and the comparison with existing approaches is not comprehensive enough. For example, how do you compare with a recent article to apply mixed reality for comprehending product design:
Tang, YM, Au, KM, & Leung, Y. (2018). Comprehending products with mixed reality: Geometric relationships and creativity. International Journal of Engineering Business Management.
https://doi.org/10.1177/1847979018809599

The scientific content is quite weak. Not only due to the article demonstrating the use of a very simple AR demonstration for experiment, the experimental results and analysis are preliminary. I am wondering how this AR demonstration can be related to geometry relationship. And how it can be proved from the experimental results. The experimental results only show some qualitative comments. The statistical findings are also descriptive and quite subjective.

The last but not least, what are the implications and insights of the current study? Seems it is still not well addressed.

Reviewer #2: I found the methods addequate. The literature review could be improved and extended, but I found it enough for the pourpose of the paper. The results are well explained and the authors findings will reinforce the idea that augmented reality applications should improve the students' perceptions and the spatial abilities. Overall, the aims of the estudy are consistent and the discussion, interpretation and conclussion are adequated.

received all of the reviewers' comments on your recent submission to Heliyon.

3 of 3

Reviewer #3: It would be much better if the final goals of the AR education system are precisely described in the paper (in the introduction session).

The roles of the research, which aims to investigate "perception" of the elementary school students, should also be specified in terms of the final goals of the education system.

It is not clear why the study of the "perception" of the students is required, how the results are utilized, etc.

The questions used in the study are vague and guides questions. By asking such questions in the manuscript,

it must be quite hard to see if the students liked the AR education because of the new technology, AR, itself or the education contents.

Though the results are "positive", it does not necessarily mean the AR education works. The students may like to play with the AR technology itself.

The AR education must aim to make the students understand geometry well and hopefully get more interests.

It would be better if the questions were focused on the education contents and more specific to the geometry subject.

Another way to see if the students like the AR-based education is to observe the behaviors of the students while they learn geometry using the AR technology.

When do the students show their interests? Which part works well while the other parts do not?

Would it be better if the students are guided by their instructors? They may share the AR education system and get more explanations.

Would it be showing much better results?

What about making the students get real touch feelings? Would it be more effective to understand spatial knowledge and/or skills?

It is required to explain the following terms in detail: 3Dmetric (page 2 line 27), HTL (page 6 line 17) and LCM (page 6 line 24).

Reviewer #4: Methods:

Since the number of respondents is quite low (only 36 students), explain in more detail, how the authors deal with these data and the analysis technique (quantitative method). Did the study employ Nonparametric statistics? How to ensure the data normally distributed?

Data collection procedures should be put in a specific subchapter.

Please explain the interrater reliability score when mentioning 'consensus during data analysis'.

Mention the name of the survey or questionnaire used in the study? Is it an original questionnaire? Please elaborate the validity information of the questionnaire (e.g., content validity, face validity).

received all of the reviewers' comments on your recent submission to Heliyon.

3 of 3

Explain or mention the interview protocol.

Is there any specific reason choosing the school or targeted respondents? Since this study related to augmented reality, is there any ICT literacy assessment to better understand the background of the students?

Results:

Enhance the explanation when discussing the results gathered from survey and interview compare or synthesize the data gathered from different sources).

Interpretation:
Good.

Other comments:

The Abstract can be improved by providing rationales of the study at the beginning (could be more elaborative)

Avoid putting table or image at the beginning of subchapter; put the table after writing a paragraph or below the paragraph that refers to the table or image.

Explain the limitations of the study and further work from the study.

More information and support

FAQ: How do I revise my submission in Editorial Manager?

https://service.elsevier.com/app/answers/detail/a_id/28463/supporthub/publishing/

Keterangan Korespondensi by Sistem → Keputusan Diterima

← https://www.editorialmanager.com/heliyon/default1.aspx

Getting Started

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Heliyon

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Role: Author ▼   Username: faizalamir

← **Submissions with an Editorial Office Decision for Author**

Page: 1 of 1 (1 total completed submissions)

Results per page 10 ▼

Action ▬ ⧩	Manuscript Number ▲	Title ▲	Initial Date Submitted ▲	Status Date ▲	Current Status ▲	Date Final Disposition Set ▲	Final Disposition ▼
View Submission View Decision Letter Publishing Options Send E-mail	HELIYON-D-19-03061	Elementary students' perceptions of 3Dmetric: A cross-sectional study	Jan 08, 2020	May 19, 2020	Completed - Accept	May 19, 2020	Accept

Page: 1 of 1 (1 total completed submissions)

Results per page 10 ▼