Institute For Engineering Research and Publication

Unit of Technoarete Research and Development Association

IFERP®
connecting engineers... developing research

21/05/2020

Copyright Form

Author(s) Name	Kurnia Setiawan
Co-Author(s) Name	Kurnia Setiawan, Iwan Zahar, Ninawati Lihardja, Meiske Yunitree
Paper ID	DOI: 10.5373/JARDCS/V1212/S20201286
Title of the Paper	Revitatlization Wayang in present context through creative learning; brainstorming and mind mapping
Affiliation	Universitas Tarumanagara
Email	kurnias@fsrd.untar.ac.id
Contact No.	+62 81297816573
City	Jakarta
Country	Indonesia
Journal Name	Journal of Advanced Research in Dynamical and Control Systems (JARDCS) - SCOPUS INDEXED

Terms & Conditions

4. The Author warrants that his/her contribution is original, except for such excerpts from copyrighted works as may be included with the permission of the copyright holder and author thereof, that it contains no libelous statements, and does not infringe on any copyright, trademark, patent, statutory right, or propriety right of others.

5. The Author signs for and accepts responsibility for releasing this material on behalf of any and all co-authors.

6. The right to use all or part of this article, including tables and figures in future works of their own, provided that the proper acknowledgment is made to the Publisher as copyright holder.

7. The right to make copies of this article for his/her own use, but not for sale and it is the responsibility of each author to ensure that papers submitted to the above mentioned Journal are written with ethical standards in mind, concerning plagiarism.

8. This paper has not been published in the same form elsewhere for publication prior to acceptance/rejection by this Journal.

9. By submission of an article the corresponding author confirms that all co-authors have seen and approved the validity of the contents and approve the manuscript's submission. On behalf of all co-authors, the corresponding author shall take complete responsibility for the submission and its correspondence and the IFERP cannot be held responsible for any incomplete or incorrect manuscript submitted by the corresponding author(s).

10. No authors will be added or removed after the submission of the article.

11. The corresponding author also declares that on the acceptance of the manuscript s/he is responsible for the payment of the publication fee in those journals that carry a required fee on acceptance.

12. After signing the copyright form, withdrawn of Article from the respected Journal is not acceptable and Article Processing Fee is not refundable.

13. Journal have the right to reject the article and IFERP is not involved in the decision making process.

14. IFERP do not involve in any process of enlisting the articles into the indexed databases like SCOPUS, Web of Science, UGC, etc.

15. IFERP do not involve in any selection of the Journal while publishing the article. IFERP will not force any authors to publish their articles in any particular journal.

16. For any dispute or related violence, it will be discussed and considered only in front of 'Judiciary of Chennai' at Chennai, Tamil Nadu, India.

I have read and agreed to the above Terms and conditions.

Date: 21/05/2020   Kurnia Setiawan

https://jardcs.org/index.php

Welcome to JARDCS

Journal of Advanced Research in Dynamical and Control Systems presents peer-reviewed survey and original research articles.

Know More

Journal of Advanced Research in Dynamical and Control Systems - JARDCS

Journal of Advanced Research in Dynamical and Control Systems examines the entire spectrum of issues related to dynamical systems, focusing on the theory of smooth dynamical systems with analyses of measure-theoretical, topological, and bifurcational aspects. It covers all essential branches of the theory--local, semi local, and global--including the theory of foliations.

The journal also features in-depth papers devoted to control systems research that spotlight the geometric control theory, which unifies Lie-algebraic and differential-geometric methods of investigation in control and optimization, and ultimately relates to the general theory of dynamical systems.

Journal of Advanced Research in Dynamical and Control Systems presents peer-reviewed survey and original research articles. Accessible to a broad range of scholars, each survey paper contains all necessary definitions and explanations, a complete over-view of the problem discussed, and a description of its importance and relationship to basic research on the subject.

This publication also features authoritative contributions describing ongoing investigations and innovative solutions to unsolved problems as well as detailed reviews of newly published books relevant to future studies in the field.

Publisher

⊘ Key Dates

Paper Submission Open:
10 Aug 2020

Final Date for Submission
28 Sep 2020

Acceptance Notification
12 Oct 2020

Scopus coverage: from 2009 to 2015, from 2017 to August 2020

Scopus SJR

Journal of Advanced Research in Dynamical and...

Q3   Engineering (miscellaneous)

best quartile

SJR 2019
0.13

powered by scimagojr.com

♀ News & Events

Scopus coverage : from 2009 to 2015, from 2017 to August 2020

submissions@jardc.com is not an official email of the journal and we are not responsible for any of the emails from the same

Acceptance will be provided only from the official mail of the journal, acceptance from other sources are not valid.

From 2019, JARDCS will invite special issue papers only through conferences. There will not be any direct special issue submissions other than conference special issue.

Call for Research Articles

JARDCS invites researchers, scholars and authors to submit

JARDCS

HOME   ABOUT US ▾   FOR CONTRIBUTORS   **ARCHIVES** ▾   ONLINE SUBMISSION   ARTICLE TRACKING   CONTACT   👤 ▾

ARCHIVES

📂 VOLUME 12, ISSUE 2

← Back to Archives

A Novel Approach for Controlling Reactive Power in grid-connected PV system using ASDM and Fuzzy Controllers

Login

👤 Srikanth Sattenapalli, V. Joshi Manohar

📄 Abstract   ⬇ Download PDF

📄 Abstract   ⬇ Download PDF

Energy Conservation And Traffic Control In Wireless Sensor Network

👤 Kothakapu Chandra Reddy,G. Yugandhar

📄 Abstract   ⬇ Download PDF

Revitalization Wayang in present context through creative learning; brainstorming, and mind mapping

👤 KurniaSetiawan, Iwan Zahar, NinawatiLihardja, MeiskeYunithree

📄 Abstract   ⬇ Download PDF

📄 Abstract   ⬇ Download PDF

JARDCS

Journal of Advanced Research in Dynamical and Control Systems presents peer-reviewed survey and original research articles.

Quick Links

Scope of JARDCS

For Contributors

Online Submission

Article Tracking

Contact

Publication Ethics & Malpractice Statement

Archives

Current Issue

All Archives

Special Issues

Accepted Articles

Scopus SJR

Journal of Advanced Research in Dynamical and...

Q3   Engineering (miscellaneous)

best quartile

SJR 2019
0.13

powered by scimagojr.com

Revitalization Wayang in present context through creative learning; brainstorming, and mind mapping

[1]KurniaSetiawan, [2]Iwan Zahar, [3]NinawatiLihardja, [4]MeiskeYunithree

[1]Tarumanagara University ,[2]Indonesia EsaUnggul University,[3] Tarumanagara University,[4]Tarumanagara University

Abstract— Shadow-puppets originated from India, and Indonesians developed various shadow-puppets that differed slightly from their origin. Although there are many noble values and various cultural traditions contained in the philosophy and physical form of Indonesian shadow puppets. However, the shadow puppets are increasingly forgotten by today's young generation. The purpose of this research is to revitalize shadow-puppet in the present context and the perspective and expression of young people. Research conducted is descriptive qualitative. The research subjects were students at the Visual Art and Design Faculty, at Tarumanagara University. The research methods conducted by depth-interview to RadenBagusAnantaHariNoorsasetya and UntungSaryanto (wayang expert), quessioner, pre and post-test about the students' insights, interests, and creative ideas on wayang, and focus group discussion with 33 Tarumanagara Students who take creative experiment course. Amongst the creativemethod used, which is considered the most striking and suitable is brainstorming and mind mapping. The results of a pleasant learning atmosphere, getting to know themselves, expressing themselves, thinking freely, cooperating with others and stimulating the courage to experiment to revitalize puppets. There was a change in their insights, interests and creativity before and after attending several meetings with creative experiment lectures.

Index Terms— insight, mind mapping, brainstorming..

Introduction

Wayang is one of Indonesia's rich cultural diversity that has existed since ancient times, and continues to grow until now. Hindu culture influenced the performance of shadow puppet, which came to be known as Wayang. Indian cultural elements are absorbed and give rise to Javanese-Hindu culture [15] UNESCO provides, wayang meet the requirements of UNESCO as a masterpiece [6]. Under UNESCO's standard procedures, the Secretary General examines and considers wayang to combine five forms and discourse of art: (1) creative and conceptual art, (2) performance art, (3) carving and drawing / fine arts, (4) kawi mastermind of written or dramatic drama literature, and (5) philosophy or education [5].

There are some creative act from Indonesian to develop wayang story in puppetry theater in Bali[6], and some addition of character such as Semar which is very different with the original story. Semar's figure is a native Javanese character, and is not present inreferences to the epic Ramayana, Mahabarata, and Baratayudha in India.In Old Javanese literature, Semar figures only appear in traditionsKidung, which is oral literature that shows more populist naturewhich departs from the original Javanese story, despite the mythological deities andMahabarata figures also appear [18].

The modern era is increasingly visible trends the authors copy or adapt wayang stories into Indonesian fiction as in the title of the book *OmongKosong*, *Wisanggeni Sang Buronan* (Seno GumiraAjidarma), Abhimanyu andWisanggeni, TogogTejamantri[16].

The decline in wayang appreciation was also caused by the disappearance and decline of the wayang story that once triumphed by comic artist RA Kosasih from the 1960s to the 1970s and declined in the late 1980s due to the entry of foreign comics, especially Japanese manga [10,13] Learning about wayang shows the following points. First, each Javanese sub-culture holds a myriad of potentials based on local wisdom. Puppet as one of them, developed rapidly since then, and has not died until now. Second, each Javanese subculture has a unique visual form of wayang. Third, there is the potential of art education media that has been embedded in elementary schools, with wayang as the source of ideas [20].

Creative is a human mystery and is considered to be able to produce a new, surprising, and valuable. Creative inventions such as scientific inventions, musical compositions, food recipes and others. The discovery of artifacts such as paintings, sculptures, origami and puppets is one of them. Creative can be divided into two namely creative psychology (P-creative) and creative history (H-creative). P-creative revealed something new for him/her self, but not the first new discovery in history (H-creative) [12]

Creative learning that uses a variety of creative methods such as brainstorming, mind mapping and ideation. The fundamental aspect of an early phase of designing is called ideation, which means using various sources include wayangas inspiration to envision potential design ideas and solutions creatively meeting given design constraints.[21]

Many ideation methods have been developed to help designers producealternative design. The methods of making formal ideas are broadly classifiedinto two categories - intuitive and logical[11],Some of these idea-making techniques lack specific strategies and actions that students cantake use to generate ideas. For example, when brainstorming includes guidelines such as, "advice
many ideas, "" don't evaluate ideas, "and" build other people's ideas, "it doesn't provide students with specifics to develop ideas.[1]

From an educational perspective,creativity is a mixed blessing. At the same timethat time can encourage developmentcuriosity, wisdom, and problem solvingskills, it has the potential to disrupt classroom processes, such as the development of regular classes through the curriculum ororganized class work through
school day[8]. When brainstorming sessions are regarded merely as ' throwing out ideas aimlessly' results are poor, but with the right type of structure they can be very productive[3].

 Mind mapping activities require students to actively engage in their learning, often byconnecting their prior knowledge to new information [4]. When creating a mind map, a studentfrequently interacts withan instructor, a text book, classmate, or study group, notes from the class [2]. Photographs and artefacts such as wayang can help student to create the mind map. This reaserch student will interact with wayang and also make a study group and discuss with wayang expert.   Students have a variety of beliefs about the activities and what they can learn from them.

Research Methodology

The research subjects were 33 students with 20 females and 13 males, 20 years old, 95 percent is indonesianchinese descent, at the Visual Art and Design Faculty at Tarumanagara University, at Jakarta. This research was taken in the course of creative experiments in 2017. This study will try three lectures with creative learning and a variety of creative methods such as association, brainstorming, mind mapping, ideation, metaphore. Pre-tests were conducted at the beginning of the lecture for the puppet and character discourse, along with a presentation on puppet characters. Then the brainstorming task of the wayang character by drawing is inspired by the wayang discourse. 2nd metting, students are divided into 3 groups, then each student does initial assignment presentation in groups.9 students are selected to join the focus group. The research methods conducted by depth-interview with Bp. AnantaHarinoorsasetya, as a curator of the Puppet Museum and currently as a lecturer in Wayang at Multi Media Nusantara University), and Bp. UntungSaryanto (Visual Communication Design lecturer, foundation manager at the Productive Economics Orphanage).[13]

The subject of creative experimentation can enhance student creativity. Thelectures made learning become fun and courage students to do experiment. Students are invited to identify themselves, express themselves, think independently, and collaborate with others. The methods used, which are considered most interesting and appropriate are brainstorming and mindmapping.

Discussion

The mind mapping technique developed by Buzan [10] is a technique that provides associations between concepts, thoughts and information through non-linear networks or diagrams, using verbal and symbolic elements. The use of mind mapping makes it easy for students to remember the characters of the wayang, and to connect the characters, so that students can remember the stories and characters of Mahabaratha and the Ramayana. This will make it easier to come up with ideas when making puppets, especially the ones that connect the old wayang with all of today's philosophy
In practice, techniqueBrainstorming has steps
structured. StepsBrainstorming is: 1) Providing informationand motivation. At this stage the teacherdescribes the issue to be addressedand the background, then invitestudents to be active in givinghis response. 2) Identification. Students are invitedgive thoughtful suggestionsas much as possible. All that adviceprovided students are accommodated, written, anddon't be criticized. Group leader andparticipants are allowed to ask questionsjust to ask for an explanation. 3)Classification. Classifying bycriteria created and agreed upon bygroup. Classifications can also be based onstructure or other factors. 4) Verify.Contribute to the classified advice,reviewed jointly bygroup. Each recommendation is tested
its relevance to the problemdiscussed. When there is similarity thentaken is one andirrelevant strokes. But todonors can be askedthe argument. 5) Conclusions(Agreements). Master or leadergroups and other participants tryconcludes alternate detailsTroubleshooting approved issues.Once all is satisfied, it is taken awayfinal deal breakdown methodthe issue that is considered most appropriate [6]. As such, its purposes include unearthing new truths and serving as the basis for cultural creations like stories, advertisements, poems, paintings, games and other artefacts[15]. It is often used in art education with various techniques such as providing opportunities for children to explain in their own words what a creative definition is. These children aged 6-12 years issue creative definitions with simple presentations' finding treasures', 'discovering unknown

things',' talking with nature ',' doing things differently from others', ' creating something ',' has many organs like eyes, ears and mouth, etc. [3]. Similar techniques are applied to groups of Tarumanagara University students who take turns trying words, the best theme for the doll to be made. Based on the creative process, students responded to the theme of the wayang and produced a "revitalization of the wayang" on display during the Midterm Exam. Each work comes with a creative process and the student presents the work. Students with the best grades are gathered and focus group discussions are held with them.

Conclusion

The "Revitalization of Wayang" task enhances students' knowledge and interest in wayang. Many people who did not know or consider the movie to be old (old school), now have history, philosophy and contextualization, so they are increasingly aware of the rich diversity of Indonesian culture and moved to preserve it. Students will be able to reflect on and adapt to current themes and trends through the medium of work they create with contemporary themes such as Wayang Kaki Lima (Traditional Seller), Wayang Barbie, Wayang Cinderella, Farto the Pick-Up, Instagram Puppet, WayangMacet (Ahok, Governor of Jakarta), DewiDrupadi Pendant, WayangGolek Joan of Arch, WayangDurgaUmayi Comic

References

[1] A. Osborn, A, Applied imagination: Principles and procedures of creative problem-solving. NY: Scribner, 1957.
[2] B. D.Jones, C. Ruff, J.D. Snyder, B. Petrich,, & C. Koonce, "The effects of mind mapping activities on students' motivation". *International Journal for the Scholarship of Teaching and Learning*, vol 6, no 1, pp 1–21, 2012. Retrieved from : https://cupola.gettysburg.edu/edfac/22
[3] Ç. Demir, "Enhancing creativity in art education through brainstorming". *International Journal of Education through Art,* vol 1, no 2, pp 153-162, 2005.
[4] G. Salomon, G., and D.N. Perkins, "Individual and social aspects of learning". *Review of Research in Education*, 23, 1-24, 1998.. doi:10.2307/1167286.
[5] I. NyomanSedana, *Kawidalang: Creativity in wayang theatre.* Dissertation University of Georgia, USA: Department of Drama and Teater, 2002 .
[6] Isman.Metode Brainstorming. Available in http://www.Guru kelas.com/2012/08/, 2012.

[7] I, NyomanSedana, Innovation of Wayang Puppet Theatre in Bali. In J. Xing, & P.-s. Ng, *Indigenous Culture,Education and Globalization Critical Perspectives from Asia,* pp. 67-81. Berlin Heidelberg: Springer, 2016.
[8] J. K. Smith and L. F. Smith, *Educational Creativity* in   J.C. Kaufman and R. Steinberg. Handbook of Creativity, Cambridge : Cambridge University Press, pp 250-264, 2010.
[9] K., Matsuura, (2003). *WayangKaryaAgungBudayaDunia (Wayang puppet theatre a materpiece of the oral and intangible heritage of humanity).* Paris: UNESCO, 2003.
[10] J. A. Lent,*Asian Comics*. Mississippi: University Press of Mississippi, 2015.
[11] J.J. Shah, and Noevargas-Hernandez, "Metrics for measuring ideation Effectiveness" .Design Studies, Vol 24, no. 2,pp 111-134, 2003
[12] M. A.Boden.,*The Creative Mind Myths and Mechanisms*, London: Routledge, 2004.
[13] M.Downes,"Hybridities and Deep Histories". S*ituations*, vol 8, no 2,pp 5-26, 2015.
[14] M.H. Williams, "Physical webbing: Collaborative kinesthetic three-dimensional mind maps". *Active Learning in Higher Education,*vol13, no 1, pp 35–49, 2012. doi:10.1177/1469787411429185.
[15] M.T. Liano, S. Colton, R. Hepworth, J. Gow, "Automated Fictional Ideation via Knowledge Base Manipulation". *Cognitive Computation*, 8, pp 153-174, 2016.
[16] Nurgiyantoro, Burhan. *TransformasiUnsurPewayanganDalamFiksi Indonesia*. Yogyakarta: GadjahMada University Press, 1998.
[17] P. Leavy. *Research Design*. New York: The Guilford Pres, 2017.
[18] P.J. Zoetmulder, *Kalangwan, SastraJawaKunoSelayang Pandang*, PenerbitDjambatan, Jakarta, 1985.
[19] R.W. Olson, *The Art of Creative Thinking*, Jakarta :Erlangga, 1996.
[20] T.R., Rohedi, T. R. Pengembangan Media "PembelajaranPendidikanSeniBudayaBerbasisKearifanLokal (WayangsebagaiSumberGagasan)". *imajinasi,*vol 8, no 1, 2014.
[21] T.K. Laamanen, *Generating and transforming representations*. Dissertation University of Helsinki. Unigrafia, Helsinki 2016 : University of Helsinki, 2016.

Journal of Convergence Information Technology

South Korea
Advanced Institute of Convergence Information Technology Research Center

International Journal of Digital Content Technology and its Applications

South Korea
Advanced Institute of Convergence Information Technology Research Center

International Journal of Advancements in Computing Technology

South Korea
Advanced Institute of Convergence Information Technology Research Center

Journal of Advanced Research in Dynamical and Control Systems

United States
Institute of Advanced Scientific Research

Journal of Advanced Research in Dynamical and Control Systems

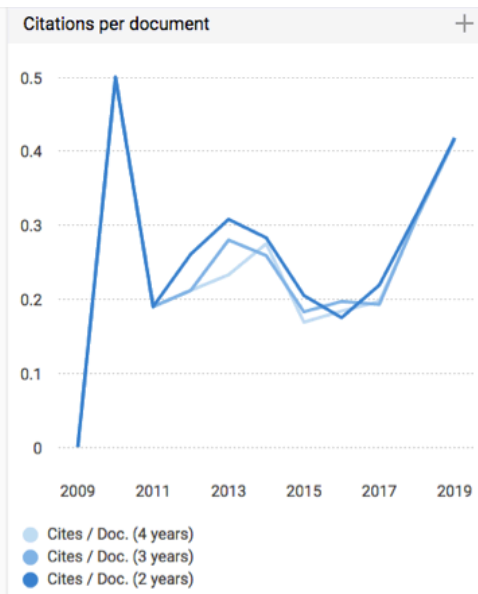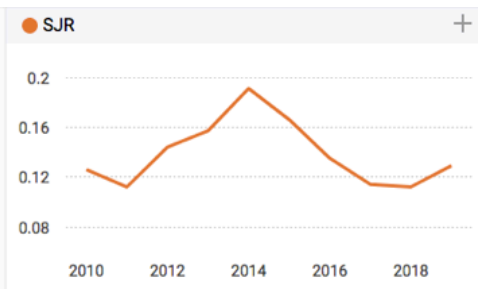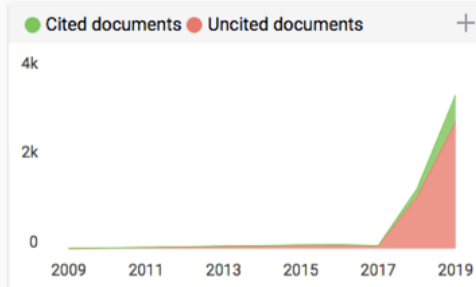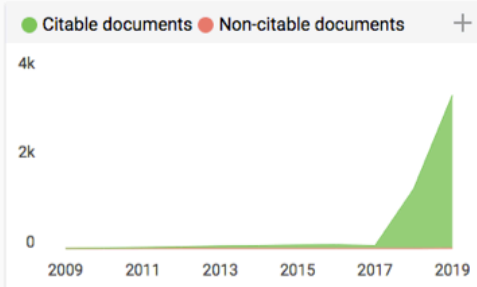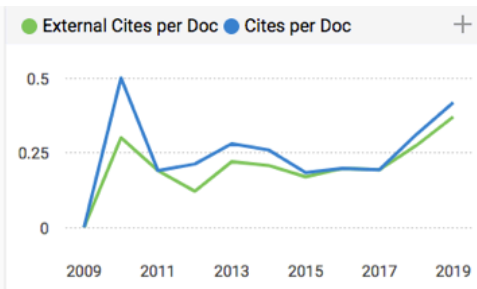|	
Country	United States - ⅢⅢ SIR Ranking of United States

Subject Area and Category	Computer Science
	    Computer Science (miscellaneous)
	
	Engineering
	    Engineering (miscellaneous)

Publisher	Institute of Advanced Scientific Research
Publication type	Journals
ISSN	1943023X
Coverage	2009-2015, 2017-2020
Scope	Journal of Advanced Research in Dynamical and Control Systems is a multidisciplinary journal. It publishes papers focusing on proofs of important theorems as well as papers presenting new ideas and new theory, conjectures, numerical algorithms and physical experiments in areas related to nonlinear dynamics and systems theory. Papers that deal with theoretical aspects of nonlinear dynamics and/or systems theory should contain significant mathematical results with an indication of their possible applications. Papers that emphasize applications should contain new mathematical models of real world phenomena and/or description of engineering problems. They should include rigorous analysis of data used and results obtained. Papers that integrate and interrelate ideas and methods of nonlinear dynamics and systems theory will be particularly welcomed.

17

H Index

Scope   Journal of Advanced Research in Dynamical and Control Systems is a multidisciplinary journal. It publishes papers focusing on proofs of important theorems as well as papers presenting new ideas and new theory, conjectures, numerical algorithms and physical experiments in areas related to nonlinear dynamics and systems theory. Papers that deal with theoretical aspects of nonlinear dynamics and/or systems theory should contain significant mathematical results with an indication of their possible applications. Papers that emphasize applications should contain new mathematical models of real world phenomena and/or description of engineering problems. They should include rigorous analysis of data used and results obtained. Papers that integrate and interrelate ideas and methods of nonlinear dynamics and systems theory will be particularly welcomed.
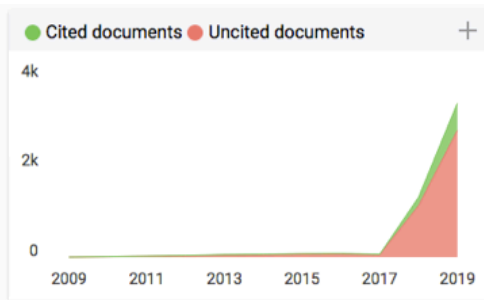
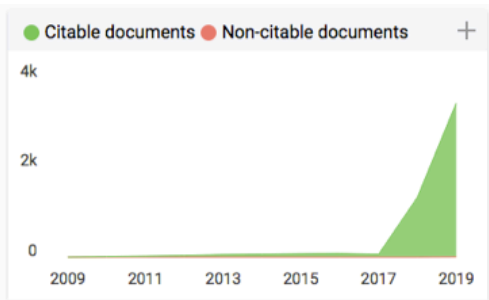ⓘ Homepage

How to publish in this journal

Contact

💬 Join the conversation about this journal

ⓘ ✕

IJENS Journals

IJENS publisher SCOPUS - indexed; Call For Papers

SJR

Total Cites ● Self-Cites

Citations per document

- Cites / Doc. (4 years)
- Cites / Doc. (3 years)
- Cites / Doc. (2 years)

External Cites per Doc ● **Cites per Doc** ●

| | 0.5 0.25 0 |
| 2009 2011 2013 2015 2017 2019 |

% International Collaboration ●

| 20 10 0 |
| 2009 2011 2013 2015 2017 2019 |

Citable documents ● **Non-citable documents** ●

| 4k 2k 0 |
| 2009 2011 2013 2015 2017 2019 |

Cited documents ● **Uncited documents** ●

| 4k 2k 0 |
| 2009 2011 2013 2015 2017 2019 |

Citable documents ● Non-citable documents ●

Cited documents ● Uncited documents ●

Journal of Advanced Research in Dynamical and...

Q3 Engineering (miscellaneous)

best quartile

SJR 2019 0.13

powered by scimagojr.com

← Show this widget in your own website

Just copy the code below and paste within your html code:

`<a href="https://www.scimagc`