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# Proceedings of the International Joint Conference on Arts and Humanities 2021 (IJCAH 2021)

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Welcome to the International Joint Conference on Arts and Humanities 2021 held by Universitas Negeri Surabaya, Indonesia. This joint conference features five international conferences, International Conference on Education Innovation (ICEI), International Conference on Cultural Studies and Applied Linguistics (ICCSAL), International Seminar of Sport and Exercise Sciences (ISSES), International Conference on Social Science and Law (ICSSL), and International Conference on Research and Academic Community Services (ICRACOS). It encourages dissemination of ideas in arts and humanities and

provides a forum for intellectuals from all over the world to discuss and present their research findings on the research areas, as well as to build network with others.

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# Proceedings of the International Joint Conference on Arts and Humanities 2021 (IJCAH 2021)

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International Joint Conference on Arts and Humanities (IJCAH) 2021 features five international conferences held by Universitas Negeri Surabaya (Unesa), Indonesia; they are International Conference on Education Innovation (ICEI), International Conference on Cultural Studies and Applied Linguistics (ICCSAL), International Seminar of Sport and Exercise Sciences (ISSES), International Conference on Social Science and Law (ICSSL), and International Conference on Research and Academic Community Services (ICRACOS). The conference was held online on 2 October 2021. Organizing this event shows the commitment and acknowledgement of Unesa to research activities. It encourages dissemination of ideas in arts and humanities and provides a forum for intellectuals from all over the world to discuss and

present their research findings on the research areas, as well as to build network with others. In addition, this conference certainly helps improve scientific publication of researchers.

This conference has attracted much attention from scientific community. The papers submitted to the conference have a wide range of topics, namely education, arts, social sciences, and sports. Out of the submitted papers, 223 papers were selected to be published by Atlantis Press. The authors vary from fifteen (15) different countries; they are Germany, Poland, Austria, Germany, China, Filipina, India, Afrika, Hungary, Japan, USA, Bangladesh, Netherlands, Thailand, and Indonesia. The selection was based on the results of the rigorous review of the papers by two referees for each paper who focused on the format, language use, and contents. Hopefully, the scientific papers can provide invaluable insights on those very important topics.

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222 articles

**Proceedings Article**

[Analysis of Cultural Content on the Beginner-Level Textbooks “Bahasa Tionghoa Zaman Sekarang”](#)

Septarianie Sutandi, Selvia Selvia

Language learning and cultural learning are inextricably linked to each other. Foreign language learners who are equipped with cultural understanding will possess “intercultural competence,” which is essential in cross-cultural communication. In Indonesia, learning Chinese at the beginner level is still...

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### Proceedings Article

*Analysis of the Performance of Ludrukan Nom-noman Tjap Arek Soeroboio (LUNTAS) in the Legend of Sawung Kampret*

Syina Dalila, Arif Hidajad

LUNTAS (Ludrukan Nom-Noman Tjap Arek Soerrobojo) is one of the groups that preserves ludruk by performing Ludrukan in order to be accepted by the community, especially millennials in Surabaya. The authors are interested in reviewing LUNTAS because of the uniqueness that stands out in LUNTAS compared...

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### Proceedings Article

*Enculturation of Kethoprak Babad Tulungagung Through Educational Strategy in Facing Cultural Globalization*

Arief Sudrajat, Zulfana D. Ariska, Ayu Febriani, Fakhrial E. Widodo

Kethoprak Babad Tulungagung is a regional art owned by Tulungagung Regency. However, the onslaught of cultural globalization has made the arts degraded. The decline in the existence of the Kethoprak Babad Tulungagung

in the younger generation impacts their ignorance of the moral values contained. A qualitative...

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### **Proceedings Article**

## Online Identification of Weaknesses of Subjective Tests in Javanese Course Assessment: A Case Study of Second Grade Students at SMAN 2 Malang

Natanael F. Rahmanda, Miftachul Amri, Syamsul Sodiq

The current pandemic has had a significant impact on the learning evaluation process in schools. One type of subjective test assessment is also affected by the imposition of a form of distance learning. This study aims to identify the weaknesses of the subjective test given online to second-grade students...

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**Proceedings Article**

## Correlation of Panji's Lust in *Wangbang Wideha* Manuscript with Javanese Spirituality

Amalin H. Imani, Ropi'ah

The aim of this research is to investigate: (1) the existence of Panji's excessive love for Warastrasari (Sekartaji), (2) the will of Panji to achieve his obsession, and (3) Panji's desire to get sexual lust satisfaction. The purpose of this study is to examine the existence of lust owned by the main...

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**Proceedings Article**

## Implementation of Authentic Assessment Curriculum 2013 of Mandarin Language in SMK Prapanca 2 Surabaya

Novia K. Nisaa, Miftachul Amri, Syamsul Sodik

The purpose of this study was to find out how the preparation of authentic assessment instruments at SMK Prapanca 2 Surabaya, the implementation of authentic assessments of Chinese subjects at SMK Prapanca 2 Surabaya, and the use of authentic assessment results of Chinese subjects at SMK Prapanca 2 Surabaya....

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**Proceedings Article**

## Writing with Word Limits: A Review

Dadang Rhubido, Kisyani Laksono, Mintowati, Suhartono, Hespi Septiana,

Raras Tyasnurita

Writing is one form of literacy foundation. This study aims to describe the type of writing based on words limits (the number of words). The word limit is essential for writers. When you need to summarize a text with a limited number of words, your key points will be more straightforward. As a result,...

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### Proceedings Article

Revitalization of *Po Pado*: Explaining the Meaning of Educational Value of Oral Tradition in the People of Rakalaba Village, West Golewa District, Ngada Regency

Maria Y. C. Age

This study aims to find and describe the meaning of educational values in Po Pado in the people of Rakalaba village, West Golewa District, Ngada Regency. This study used a qualitative approach. The results of the study proved that Po Pado in the people of Rakalaba Village, West Golewa District, Ngada...

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### Proceedings Article

Innovation Strategy of Cosmetic Packaging Design Made of Bamboo

Nanda N. Anggalih

Bamboo has been talked about a lot by international communities in the world eco-label, specifically because it has big potential to be used as a sustainable material. As the third biggest country to produce bamboo globally,

Indonesia has been supporting the regulation to establish bamboo nationally...

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### Proceedings Article

## Empowering Local Communities to Preserve their Folklore: A Project in Eastern Sumba

Angelika Riyandari, B. Retang Wohangara

This article presents a project of empowering local communities in eastern Sumba to preserve their folklore. Culture encounters in globalized world encourage local communities to reflect on the dynamics and vitality of their own culture. Given the fact that oral-based communities are marginalized in...

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**Proceedings Article**

## Application of the Differentiated Learning Model in Advanced BIPA Courses

Prima V. Asteria, Ahmad G. Muzakki, Trinil Turistiani, Alda Setyawati

The aims of this study are (1) to describe the process of identifying the profile of students' characteristics in Advanced BIPA courses and (2) to describe the process of developing differentiated learning models in Advanced BIPA courses. The research method used is the ADDIE model development method,...

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**Proceedings Article**

## The Importance of Embouchure Technique on Flute Major Course in Universitas Negeri Surabaya

Heri Murbiyantoro, Moh. Sarjoko, Raden Roro Maha Kalyana Mitta Anggoro

This paper discusses the importance of the embouchure technique in Indria Level (basic level) Flute Major Course, in Music Study Program, Universitas Negeri Surabaya. The purpose is students become formed and accustomed to playing flute with proper basic posture. Later, it facilitates practicing and...

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**Proceedings Article**

## Fostering Students' Creativity Through Modelling as Teaching-Learning Process to Write Poetry for International

## Students in University Level

Prima V. Asteria, Arik Susanti, Respati R. Utami

This research aims to describe how modelling was implemented in learning writing poetry for international students. The teacher took several steps to increase students' creativity in writing poetry, namely; 1) Prewriting/ modeling 2) Arrangement/ Brainstorming 3) Drafting/ Creating Poetry, and 4) Revising...

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### Proceedings Article

## Behaviors of Personal Meaning Marker Suffixes in Mandarin Language

Subandi Subandi, Xiao Renfei, Muhammad F. Masrur, Cicik Arista

Suffixes are constituents that form larger grammatical units, especially in the form of words. Each suffix has a specific function in forming the meaning type: the personal meaning type. Various suffixes form a single personal meaning in Mandarin, and each form has its specifications of personal meaning...

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### Proceedings Article

## Development of Learning Media Based on Videoscribe to Improve Learning Outcomes of Morphology Course

Mulyono Mulyono, Arie Yuanita, Dianita Indrawati

Learning media is an integral part of the lecture (learning) process. If it is

inappropriate and ineffective, it will disturb other learning components, and lecture competencies will be hampered. The learning media developed in this research is Videoscribe in the Morphology course. The goals is to describe...

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### Proceedings Article

## The Implementation of Portfolio Assessment in Japanese Learning at Senior High School

Lusi Asmaraningtyas, Miftachul Amri, Syamsul Sodiq

During distance learning in the middle of the Covid-19 pandemic, the e-portfolio assessment can be preferred as an alternative to other assessments. The purpose of this study is to find out; 1) how the implementation of e-portfolio in Japanese language teaching in SMAN 5 Malang is, 2) how to analyze...

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### Proceedings Article

## A Case Study of the Implementation of Alternative Psychomotor Assessment in Japanese Language Online Learning

Dhevi A. Hermawan, Miftachul Amri, Syamsul Sodiq

SMAN 10 Malang began implementing learning from home activities since the issuance of a circular from the government regarding the implementation of education policies during the Covid-19 emergency. Japanese language learning, which one of the subjects at SMAN 10 Malang, is also carried out online. With...

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### Proceedings Article

## Performance Management Optimization of Virtual Music Concert at SMKN 12 Surabaya

Dhani Kristiandri, Vivi E. Dewi, Moh. Sarjoko, Joko Winarko, Agus Suwahyono

This study discusses the optimization of performance management at SMK Negeri 12 Surabaya. The purpose of this study was to describe the process of optimizing performance management at SMK Negeri 12 Surabaya and to find out the students' response to performance management training during the COVID-19...

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### Proceedings Article

## Wacom Media as an Alternative in Kanji Beginner Learning for College Students in the Pandemic Period

Nise S. Sasanti

The Covid-19 pandemic has changed the education system into distance learning that requires media to deliver materials. Media are needed to help the implementation of a kanji learning is no exception. Kanji skills courses must be mastered by students. Wacom can be used to practice how to write kanji....

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**Proceedings Article**

## *Sandur Mandura* Performance as a Source Creation of Jombang *Topeng* Dance

Setyo Yanuartuti, Jajuk D. Sasanadjati, Joko Winarko

Sandur Mandura performance has different characteristics from other Sandur performances in East Java. Also, the Sandur Mandura performance has forms and values that can be used as a source for creating or developing the Jombang Topeng (mask) dance. This study aimed to analyse the Sandur Mandura performance...

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**Proceedings Article**

## What do I Have to Say? The Need of Pocket Book as a Helping Hand for BIPA Students

Him'mawan A. Nugroho, Hespi Septiana, Masilva R. Mael, Agus Ridwan

From time to time, Indonesian for Foreign Speakers (BIPA) continues to grow, including BIPA at Universitas Negeri Surabaya (Unesa). It cannot be denied that in its journey, BIPA Unesa encountered various problems. One of them is a report from a foreign student who was confused when he first arrived in...

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**Proceedings Article**

## Phrases with Postposition *O* in *Minna No Nihongo Shokyuu* Textbook

## The Study of Role and Function of Syntax

Roni Roni

Postposition o or particle o has various syntaxes' roles and functions. This article discusses the role and function of syntaxes postposition of o in consonant phrases in Minna no Nihongo textbook. The type of this study is descriptive qualitative. The study was started with the literature review of...

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### Proceedings Article

## Pride and Legacy of Cultural Heritage The Example of the Javanese *Panji* Tradition

Lydia Kieven

This article discusses the characteristics of the tradition of the mythological Javanese stories on Prince Panji, going back to the 12th/13th century, which are manifest in a broad variety of expressions in art and literature. The legacy of the rich Panji tradition represents an outstanding example of...

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### Proceedings Article

## Development of Pamekasan Batik Motifs as the Application of Product Diversifications

Fera Ratyaningrum, Trisakti, Indah C. Angge, Marsudi

Pamekasan Regency has batik products as the center of batik industrialization in Madura. More specifically, Klampar village. Pamekasan Regency has a batik industry center, one of which is Klampar village, Proppo

sub-district. The handcrafted batik of Klampar Village has a positive impact on the socio-economic...

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### Proceedings Article

## Literature Class Environments Rich in Texts Supporting the Excellent School Literature Movement

Yuliyati, Endang Purbaningrum, Sujarwanto, Ima Q. Ainin

Text-rich, interesting, and accessible literacy for Special Education Needs (SEN). This study aims to describe the embodiment of the text-rich, attractive, and accessible literacy classroom environment in supporting the literacy movement in Special Education Needs Schools. A qualitative approach with...

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### Proceedings Article

## The Problems of Performance Assessment of Japanese Language Subjects Based on E-Learning Using E-lingo Platform

Lenny Puspitasari, Miftachul Amri, Syamsul Sodik

Distance Learning (DL) implementation began to be mandatory throughout Indonesia as part of efforts to suppress the spread of COVID-19. The implementation with E-learning model is applied in the teaching and learning process from kindergarten to higher education which demands innovative and accessible...

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### Proceedings Article

## Offering Dance in the Performance of *Topèng Dhâlàng* Madura as a Creative Industry Commodity

Eko W. Rahayu, Warih Handayaningrum, Jajuk D. Sasanadjati, Arief Sudrajat

This study aims to examine the criteria of offering dance forms in topèng dhâlàng performance as an industrial commodity. The topèng dhâlàng is a traditional dance performing art with the genre of dance drama in the Sumenep Regency of Madura, East Java. A characteristic of topèng dhâlàng is as the offering...

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### Proceedings Article

## Traces of the Power of the Proletariat Dictator in *Herta Müller's Herztier*

Wisma Kurniawati, Setya Y. Sudikan, Agus Ridwan, Ajeng D. Kartika

The peculiarity of the novel as a work of imaginative narrative prose is its element of continuity. The fictional world reaches the reader because of the narrator's mediation. Therefore, the narrator is the most crucial element for readers to understand the story in the novel. This article examined the...

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### Proceedings Article

## Grammatical Errors on BIPA Students (Indonesian Language for Foreign Speakers) in Writing Practice for Beginner Level

Hespi Septiana, Warsita N. Ardiyanti, Slawomir Dudek

Writing skill is one of the active language skills that is important in expressing ideas, thoughts, and feelings. Writing is also a difficult thing for BIPA students, especially for beginners with academic goals. The Indonesian language has the standard Indonesian grammar that BIPA students should understand...

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### Proceedings Article

## Use of the Female Language Marker Feature by 宁静 *Níng Jìng* in Interview Program 《星月对话》 *Xīngyuè Duihuà* Episode 10

Subandi Subandi, Dian A. Mahardini, Muhammad F. Masrur, Cicik Arista

Female speakers have special social characters as markers of personal identity when interacting in speech acts, namely, the features of female language markers whose characteristics are already attached to the identity of female speakers. They are identical to the speaker's character, namely, having...

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### Proceedings Article

## Comparative Language Styles in the Book of *Kike Wadatsumi no Koe*

Subandi Subandi, Masilva R. Mael, Lina P. Hartanti

The use of language style is a language activity reality that has a close relationship with language objectives. Language choice aims to represent thoughts, experiences, psychological conditions, and feelings. The comparative language style is found in a written language in the form of family letters,...

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### Proceedings Article

## The Revitalization of the *Meratus Dayak* Ritual in Paramasan (Ethnoanthropolinguistic Study)

Fajarika Ramadania, Haris Supratno, Setya Yuwana, Suhartono Suhartono, Darni Darni, Udjang Pairin

In the Bawanang Ritual in Paramasan, this study intends to (1) explain the language, (2) define technical systems, (3) describe livelihoods, (4) describe arts, and (5) describe systems religion. This study employs a descriptive-analytic method as well as a Spradley ethnographic methodology with anthropolinguistic...

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### Proceedings Article

## Argumentative Indicators in *Mata Najwa* Talk Show Pragmadiialectical Study

Kamariah Kamariah, Kisyani Laksono, Agusniar D. Savitri, Suhartono Suhartono, Darni Darni, Udjang Pairin

This article aims to find indicators of argumentation contained in the Mata Najwa talk show using pragmadiialectical studies. The data used in this study

was from a debate speech at the Mata Najwa event on the topic “Beres-Beres Kursi Menkes.” The method used was descriptive qualitative. The data collection...

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### Proceedings Article

## *Canva* as a Media for Exploration of Indonesian Tourism Knowledge in BIPA Learning

Octo D. Andriyanto, Meilita Hardika, Sukarman Sukarman

This article discusses characteristics, cultural and tourism insights, and creativity of BIPA students in 6th-grade elementary school at Surabaya European School through infographics or media Canva. BIPA learning requires creative selection, media usage, and strategies oriented to the learning process....

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### Proceedings Article

## Puppet as a Medium in Project-Based Learning (PBL) to Promote English Language Competencies EFL Students in Indonesia Setting

Ririn Pusparini, Bayu Widyanarko

Shadow puppets, known as wayang kulit in Indonesia, have been used to entertain and as a medium to spread Javanese values. A puppeteer, one who plays the puppets, must have competence in storytelling. Thus, shadow puppet becomes an effective way of teaching a language, exclusively for ELT. However, paper...

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### Proceedings Article

## Problem-Based Learning as a Solution to Textbook Style Analysis in Sociolinguistic Studies in Student Journal Articles

Agusniar D. Savitri, Kisyani-Laksono, Mukhzamilah

Not all sociolinguistic articles present the results of the analysis well, especially articles written by students. Most of the analysis is done by adjusting the data to the theory or in this paper. It is called textbook-style analysis. Problem-based learning is considered to be a solution to these problems....

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## Development of Interactive Teaching Materials for the *Freier Vortrag* Course to Improve the Speaking Competence of Students of the German Education Study Program

Tri E. Lestari, Dwi I. Julaikah, Agus Ridwan, Novia R. L. Ramadhani

The general objective of this research is to develop interactive teaching materials for the Freier Vortrag course to improve speaking competence of students of the German Language and Literature Department. The specific objectives of this study are (1) to describe the process of developing Freier Vortrag...

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**Proceedings Article**

## EFL Learner's Thinking in Argumentative Writing

Betharia br. Sembiring Pandia, Berlin Sibarani

The objective of this study was to describe the EFL learners' thinking in writing argumentative text. The topic of their writing was determined entitled of Should social media be banned?. The EFL learners' thinking was based on the existence of logic of argumentation proposed by Toulmin, they are: claim,...

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**Proceedings Article**

## Japanese Nature Themed Imagery in 俳句 *Haiku* by Matsuo Basho (Stylistic Studies)

Ina I. Pratita, Parastuti Parastuti, Roni Roni

This study focuses on the study of stylistics, namely the process of analyzing literary works by examining the elements of language as the medium of literary works used by writers. It can be seen how writers treat language to express their ideas (subject matter). Stylistics studied imagery, which is...

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**Proceedings Article**

## Developing Students' English Skill Through Digital Video as Multimodal for Young Learners in Online Learning

Arik Susanti, Careninda Presdyasmara, Fadilla Dewi, Yunita Wardani

This study described EFL young learners how to develop their English using digital video as multimodal in online learning. Recently, all the processes of teaching-learning have been conducted in online learning mode. Therefore, technology has an important role to motivate students, especially young learners,...

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### Proceedings Article

## Body Language and Gestures as a Lingua Franca among Multilingual Interlocutors: Multimodal Transcription Study

Cynthia L. Soegiono, Laily M.S. Harti, Sueb Sueb

Lingua franca is known as the language bridge between two different people who have different native languages. The theory stated that humans communicate by using vocal organs and the whole part of the body. This study was conducted to seek out whether non-verbal language could be considered lingua franca....

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### Proceedings Article

## *Kanji* Flashcards and Apps Based on Augmented Reality

Mukhammad S. Alfarisy, Erika S. Damayanti, Rizky Hidayah, Nise S. Sasanti

Kanji is one of the characters that must be mastered by students who are learning Japanese, apart from mastering hiragana and katakana. Based on the students' experience of difficulty in learning and memorizing kanji, flashcard is a method that can assist the memorization process. Therefore, this study...

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### Proceedings Article

## Presupposition of Hoax Discourse in *Tilik* and *Gossip* Movie

Lisetyo Ariyanti, Lina P. Hartanti, Adam Damanhuri, Asrori Asrori

The form of hoax discourse can be seen in movies entitled *Tilik* and *Gossip*. *Tilik* movie tells how the main character spread hoax information. In *Gossip* movie, the story centers on three main characters who plan to spread hoax information and track how far the public receives the hoax information.

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### Proceedings Article

## The Meaning of *Wagashi* as a Reflection of Japanese Cultural Values in the Drama Entitled *Watashitachiwa Douka Shiteiru*

Ina I. Pratita, Masilva R. Mael, Parastuti, Yovinza B. Sopaheluwakan

The culture of eating (*shoku bunka*) in Japan has become known to the world community today. These include sweet cakes known in Japanese as *wagashi*, which are usually served at the same time as the tea ceremony (*chanoyu*).

*Wagashi* has various types, and is made based on the conditions and philosophy contained...

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### Proceedings Article

## *TikTok* Function in the Millennial Era

Anik Juwariyah, Noodiana Noodiana, Enie Wahyuning

This study aims to describe the function of TikTok application in the millennial era. The research was conducted to explore the phenomenon of TikTok popularity, which is growing particularly in the YouTube platform in our society. TikTok has become a material expression not only for Indonesian millennials,...

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### Proceedings Article

## Revealing the Role of Electronic Media in Shaping Multilingual Children

Andini S. Athalia, Asrori Asrori

Natural bilingual children are those whose languages are acquired through their parents and community. However, this paper aims to analyse how bilinguals are shaped early within their life as children through the help of electronic media. This method aims to reveal the role of electronic media in shaping...

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### Proceedings Article

## Iconic Illustration as Tourism Identity of Surabaya Submarine Monument

Nova Kristiana, Asidigisianti S. Patria, Hendro Aryanto

The Submarine Monument Monkasel is one of the evidence of maritime glory

in Surabaya. Monkasel is one of the heritage tourism and education in the maritime sector that has an attraction for tourists. The purpose of this research is to design heritage icons, and to brand Surabaya heritage tourism so that...

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#### Proceedings Article

### Literacy Practices in Some Folklores from Madura

Mamik T. Wedawati, Much. Khoiri, Dwi N. C. S. Kusumaningtyas

Defining the literacy practices in three folklores, written by Zawawi Imron, include Joko Taal, Ni Peri Tanjung Wulan, and Karapan Sapi is the purpose of the study. Some books of the folklore, journals articles, and textbooks that cope a theory from Barton and Hamilton explaining literacy practices and...

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#### Proceedings Article

### Teaching Methods in Indonesian Curriculum

#### An Analysis Using Video Recordings of History Lessons

Ira Darmawanti

This study analyzes videos in which teacher candidates applied the 1994 Indonesian curriculum in the delivery of a history lesson during practice instruction. The curriculum was challenging to implement as it required students to master all the subject lessons. This in turn meant that teachers, including...

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## The Use of Women's Language Features by Kamala Harris in the Vice-presidential Debate

Britney C. Joseph, Lina P. Hartanti, Ayunita Leliana

The number of women attaining leadership positions in governmental institutions is significantly increasing. The growth of recognizing women in the political sphere prompts the need for this paper to explore how women maintain power and authority on the 'floor' through their language choices. To that...

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### Proceedings Article

## Preserving Indonesian Internet Literature The *cybersastra.net* Online Literacy Magazine

Mohammad Rokib

The increasing emergence of internet literature in Indonesia called cybersastra has been widely discussed in the last two decades. It refers to an online literary magazine published in 2000 and in 2005. Since its popularity, many scholars and writers use it to describe various literatures. However, the...

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### Proceedings Article

## i-Maties: Indonesian Translation on an Instrument for Teachers Attitudes Towards Inclusive Education

Khofidotur Rofiah

A cross-cultural study has been performed for decades to enhance inclusive education across diverse cultures and groups. However, even with instruments explicitly built for cross-cultural research, researchers encounter translation challenges from the source language to the target language. Thus, translation...

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## Profiling Squat Assessment Among Sport Enthusiast

Miftachul Iman An'faiz, Achmad Widodo, Febby Alfu Khoirun Nissa, Awang Firmansyah, Dwiky Oktavrianto, Zulhamshah Zein Saputra

Fitness has a vital role for sports enthusiast's physiological and psychological aspects. One of the fitness movements that correlate with daily activities is squats. This study aims to look at the profile of the squat assessment of gym members. Descriptive quantitative data were collected with 41 respondents...

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### Proceedings Article

## The Profile Countermovement Jump for Kick Boxing Athletes

Muhammad Reza Aziz Prasetya, Awang Firmansyah, Dede Rahman, Jeffry Oktavian, Asep Aziz

The countermovement leap (C.M.J.) is described as a easy, practical,

legitimate, and exceptionally dependable degree of lower frame energy. C.M.J. is the maximum dependable degree of lower frame strength compared to different leaping assessments. The C.M.J. has also been shown to be associated with dash...

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### Proceedings Article

## Using Shanghai Municipal Data to Examine the Impact of Education on the Exercise Behavior of Students

Cheah Hon Foong, Catur Supriyanto

The competitive education environment in China encourages students to take additional private tutoring as they advance through their education system. We examine whether their incentive to take extra tutoring classes will undermine their propensity to exercise, potentially affecting their long-term health....

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### Proceedings Article

## Prediction Model for Health-Related Fitness Status Using Discriminant Analysis

Bayu Agung Pramono, Yetty Septiani Mustar, Hijrin Fitriani, Nurhasan

Physical fitness represents the well-being of an individual and figures in measuring individual daily activities. This research aims to differentiate the physiological variables in distinguishing man fitness status without physical tests. The subjects of the examination amounted to 60 men aged 17-23...

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### Proceedings Article

## Analysis of Young People's Physical Activity in East Java During the Covid-19 Pandemic

Ananda Riski Tarigan, Bayu Agung Pramono, Yetty Septiani Mustar, Dewa Wijaya, Hafid Yusuf

The COVID-19 pandemic has brought about significant changes in human movement activities. My activities, especially physical activity, are one of the non-pharmacological N77 treatments that can have a positive impact on humans. This study aims to determine the biological activities carried out by adolescents...

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### Proceedings Article

## Gating Analysis on Woodball: in Terms of Biomechanics

Fajar Awang Irawan, Bayu Setyo Utomo, Muchamad Arif Al Ardha

The purpose of this study was to analyze the gating motion of woodball athletes in terms of biomechanics. The method used in this study was descriptive quantitative with a total sample of 8 athletes participating in this study. This study has passed the Ethical Clearance of Universitas Negeri Semarang,...

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**Proceedings Article**

## Predictors of Overweight and Obesity Among Children and Adolescents in Developing Countries: A Literature Review

Anindya Mar'atus Sholikhah, Nik Anni Afiqah Hj Mohd Tuah

Overweight and obesity have been a global pandemic over the years, with their prevalence increasing at an alarming rate. It has become a severe health problem that severely affects health and quality of life. The aim of this study is to elucidate the factors linked to overweight and obesity among school-aged...

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**Proceedings Article**

## Assessment of Social Values for Sport: Innovative Assessment in Higher Education

Eko Purnomo, Amung Ma'mun, Nurlan Kusmaedi, Yudy Hendrayana, Yusuf Hidayat, Nina Jermaina, Eddy Marheni

Sport does not only play a role as a competition or achievement. Mark has a much more significant role in social life, such as increasing social value for the perpetrators. The research objective is to develop and validate an assessment instrument related to social values. The experts used in this study...

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**Proceedings Article**

## Health Management of Indonesian Athlete in Covid-19

Catur Supriyanto, Setiyo Hartoto

In the Covid-19 era, Professional athletes have been compelled to reschedule their training plans to maintain their condition while at home due to postponed several large-scale sporting events. As a consequence, health management becomes one of the critical issues that should be prepared in detail. This...

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## Innovation Throw and Catch Handball by Frisbee at Students of Riau Islamic University

Leni Apriani, Joni Alpen

The study aims to obtain empirical data on the success rate of handball catch through Frisbee games in college students. The Class Action Research Method (PTK) used is class action research conducted to improve the quality of learning practices in the classroom. PTK focuses on the school or teaching...

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### Proceedings Article

## Development of Life Skills Through Physical Education and Sports

I Kadek Suardika, Amung Ma'mun, Nurlan Kusmaedi, Dian Budiana

This study aims to determine the impact of physical education on high school students' life skills. The research method used is an experimental research

design with one group pretest-posttest design. The number of samples was 51 people divided into three groups—sampling using the purposive sampling technique....

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## An Essential Starting Point for Re-Education of Sport and Physical Activity (PA) Promotion

Henry Joe Tucker, Lutfhi Abdil Khuddus, Nur Ahmad Arief, Yongky Dwi Adi Priyanto, Andhega Wijaya, Youqiang Li

Due to the increasing global pandemic (COVID-19), sports and exercise are increasingly important in our lives. Staying in a confined environment without physical activity for months as a precaution to control or stop the spread of the virus carries many health and psychological consequences. As a result,...

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## Acceleration of Sports Recovery with Glutamine Supplementation in Vertical Jump and Badminton Smash Velocity

Himawan Wismanadi, Fatkur Rohman Kafrawi, Soni Sulistyarto, Abdul Aziz Hakim, Afif Rusdiawan, Lutfhi Abdil Khuddus

The purpose of this study was to determine the effect of glutamine supplementation on the ability of vertical jump and smash velocity after badminton's jumping smash. The research used a pre-post two-group design

using 20 trained male athletes from the State University of Surabaya. The research sample...

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#### Proceedings Article

### Sport Talent Identification of Elementary and Junior High School in Situbondo Regency

Mochamad Purnomo, Donny Ardi Kusuma, Afif Rusdiawan

One of the critical things in producing high-achieving athletes is identifying the talents and interests of the athletes. Sportkompas is an application to find out someone's skills and interests in the sport. This study aimed to determine the sports talents and interests of elementary and junior high...

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### Biomechanics Analysis of Arm Flexion Isometric Force, Upper Extremity Movement, and Ball Toss Position Towards Ball Speed in Tennis Flat Serve

Setiyo Hartoto, Muchamad Arif Al Ardha, Awang Firmansyah, Bayu Budi Prakoso, Satwika Arya Pratama, Panji Bana

This study analyzed arm flexion isometric force, upper extremity movement, and ball toss position toward ball speed in tennis flat serve. Nine tennis players aged  $20.78 \pm 5.044$  years old participated in this study and were chosen as research samples by using the purposive sampling method. The independent...

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## Effect of Plyometric Jumping Jack and Tuck Jump Against Strength and Leg Muscle Power in Martial Arts Athletes at Kostrad Malang

Abdul Hafidz, Shidqi Hamdi Pratama Putera, Afif Rusdiawan

The purpose of this study was to determine the effect of jumping jack and tuck jump exercises on leg muscle strength and power. The subjects of this study were the Pencak silat athletes of the Branch Kostrad Company-C, totaling 30 people who were divided into three groups with ten people in each group...

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## Correlation Between Psychological Well-being and Satisfaction of Life on Physical Education Teachers

Anung Priambodo, Bayu Budi Prakoso, Setyorini

Psychological well-being is one aspect of positive psychology that is believed to predict mental health and satisfaction of life before the Covid-19 pandemic. It is necessary to examine the relationship between psychological well-being and satisfaction of life, especially for physical education (PE)...

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**Proceedings Article**

## Physical Activity During the Covid-19 Pandemic in the State Civil Apparatus of Gresik Regency

Abdul Hafidz, Muhammad Zaky Purnomo, Afif Rusdiawan

This study aims to describe three subject points, namely: a) What sports activities are selected by the State Civil Apparatus of Gresik Regency during the pandemic Covid-19, b) What percentage of sports are dominantly carried out by Gresik Government Employees during the Covid-19 pandemic, c) How much...

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## Sedentary Activity Level of Junior High School Students in Surabaya during the Covid 19 Pandemic

Hijrin Fithroni, Afif Rusdiawan, Donny Ardy Kusuma, Awang Firmansyah

The purpose of this study was to determine the level of passive activity of Surabaya Junior High School students during the COVID-19 pandemic. This research design is cross-sectional; one hundred fifty-one respondents from SMP 59 Surabaya were recruited as samples in this study. The variable measured...

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## The Investigation of "MissFit" as Android – Based Daily and

## Healthy Drink Application

Dwi Cahyo Kartiko, Setya Chendra Wibawa, Aisyah Fitri Azzahrah

The imbalance of caloric intake that enters the body will lead to diseases and health problems that hinder human productivity. One of the efforts taken to balance the intake of calorie consumption is to have related information. Along with the times and technology that can be grasped by almost everyone...

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## Student Perceptions Related to Physical Education Online Learning During Covid-19 Pandemic

Mochamad Ridwan, Agidia Dwi Veronika Saputri, Ira Pratiwi, Veranda Putri Cahyaningtias

Online learning has many views from all students, so it is necessary to know how students perceive it. This study aims to see the perception of students related to online learning of physical education. The author uses non-experimentation with a quantitative descriptive approach—subjects who have sampled...

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## The Evaluation of Pétanque Organization Management and Youth Athlete Development in East Java Province, Indonesia

Muchamad Arif Al Ardha, Nurhasan, Andhega Wijaya, Panji Bana,

Muhammad Kharis Fajar, Sri Wicahyani, Kolektus Oky Ristanto, Nur Salsabila Rhesa Pandhadha Putra, Erta, Hapsari Sinta Citra Puspita Dewi, Ainun Zulfikar Rizki

Management has an essential role in managing various groups or organizations to achieve the goals. This study aimed to evaluate the Pétanque organization management and youth athlete development in east java province, Indonesia. The study was conducted in qualitative with an ethnography approach. The...

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### Urban-Rural Children Differences in Motor Coordination, Cardiorespiratory Fitness, and Agility

Riza Adriyani, Dody Iskandar, Lia Siti Camelia

Rural children tend to be more active than urban children, which might affect both motor skills and physical fitness components. This study aimed to examine the effects of a living area on motor coordination, cardiorespiratory fitness levels, and Agility. We also investigated the relationship between...

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### Self-Reported Assessment of Occupational Sitting and Physical Activity Among Employees

Yetty Septiani Mustar, Febby Alfu Khoirun Nissa, Agus Hariyanto, Bayu Agung Pramono, Indra Himawan Susanto

The high prevalence of sedentary behavior among workers is an emerging health concern due to the negative impact on human health. This study aimed to evaluate employees' sitting behavior and physical activity during their working time. A total of 130 employees participated in this study, with an average...

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### Development of Mini Boxing Models for Early Age Athlete Coaching

Wijono, Nining Widyah Kusnanik, Bayu Agung Pramono, Eva Ferdita Yuhantini

The purpose of this study was to develop a boxing training model for early childhood. This research is development research using Gall & Borg. A total of 209 students aged 11-12 years, 39 teachers, three trainers, three referees, and two doctors participated in this study. Based on the analysis of...

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### Sociodemographic Correlates of Hypertension Among Older Adults: A Community Based-Cross Sectional Study

Ratna Candra Dewi, Anindya Mar'atus Sholikhah, Purbodjati

Hypertension is one of the most common diseases affecting people of all ages, especially among older adults. The prevalence has increased steadily over the past decades, contributing to the increasing epidemic of noncommunicable diseases and all-cause mortality worldwide. The purpose of this study is...

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## The Impact of the Covid 19 Pandemic on the Intrinsic and Extrinsic Motivation of *The Panel Futsal Club* During Covid-19 Pandemic

Rifqi Anas, Dewa Kusuma, Fransisca Wijaya, David Prianto

Motivation has a vital role in sport. In March 2020, WHO (World Health Organization) declared that covid 19 was a pandemic because all citizens have the potential to catch the virus. The purpose of this study was to assess and know the level of intrinsic and extrinsic motivation of futsal athletes from...

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## A Pattern of Physical Activity and Its Determinants in Office Workers

Arifah Kaharina, Ratna Candra Dewi, Raymond Ivano Avani

The increase in non-communicable diseases can be caused by unhealthy community behavior, including low physical activity. Various benefits of physical activity include reducing the risk of degenerative diseases and depression. In addition, physical activity is the key to energy expenditure which is very...

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## Condition of Program Learning Outcomes of Physical Education Study Program from Alumni Perspective

Suroto, Bayu Budi Prakoso, Sudarso, Vega Candra Dinata

The completeness of the Program Learning Outcomes (PLO) listed in the curriculum in a study program has been monitored through assessments carried out in each subject for students. Assessment is objective from one side of the lecturer based on students' performance attending theoretical lectures and...

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## Biomechanics Analysis of Elementary School Students' Fundamental Movement Skill (FMS)

Muchamad Arif Al Ardha, Chung Bing Yang, Nurhasan, Dwi Cahyo Kartiko, Bambang Ferianto Tjahyo Kuntjoro, Kolektus Oky Ristanto, Andhega Wijaya, Kartika Rinakit Adhe, Kukuh Pambuka Putra, Fajar Awang Irawan, Rizky Patria Nevangga, Niken Sasadhara Sasmita, Ainun Zulfikar Rizki

Fundamental movements are part of teaching objectives in the physical education curriculum for elementary schools students. This study aimed to analyze the elementary school students' basic movement skills (FMS) using the kinematic approach. The fundamental movements in this research were correlated...

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## Palang Pintu: Exploring Cultural Philosophy Value of Betawi Community

Titi Handayani, Putri Hidayah, Aulya Safiyana Nuuril Anwari, Andhy Trianto, Indra Himawan Susanto, Yetty Septiani Mustar

Palang Pintu is one of the traditions among the Betawi community, which combines martial arts with Pantun literature passed down from generation to generation by the Betawi tribe. However, with the current culture acculturation, the district has begun to forget this tradition. This qualitative research...

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## Community Engagement to Increase Physical Activity During the Covid-19 Pandemic

Dede Rahman, Riska Devi Kurniawati, Nanda Agil Bagus Wicaksono, Muhammad Maulana Yossyan Fachrozi, Yetty Septiani Mustar

It is widely known that physical activity can improve quality of life and health. In addition, regular physical activity is also associated with the improvement of fitness and immunity. This community service activity aims to educate the community of Dusun Wangun about the importance of physical activity...

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## Sedentary Behavior Among School-aged Students During Pandemic: A Cross-Sectional Study

Rizky Maulana, Yetty Septiani Mustar, Anindya Mar'atus Sholikhah, Bayu Agung Pramono, Indra Himawan Susanto

It is well established that sedentary behavior is associated with obesity, quality of life, all-cause, and cardiovascular death. Along with the COVID-19 pandemic, sedentary behavior is increasing. This study aims to describe sedentary activity among school-aged children. Participants of this study were...

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## Risk Assessment of Groundwater Quality: A Case Study in Flood-Prone Neighbourhood Area of Pondidaha, Southeast Sulawesi

Nurmaladewi, Yetty Septiani Mustar

Groundwater quality is crucial for human life. Water resources and quality are also closely related to human health, as they can be utilized as a domestic resource. Water quality can be disrupted due to various contaminants and sediments caused by floods, which negatively impact human health, mortality,...

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## Profile of Taekwondo Athletes in Situbondo Indonesian

Muhammad Kharis Fajar, Imam Marsudi, Nugroho Agung S, Ainur Rasyid, Bayu Agung Pramono, Andi Fepriyanto

This study aimed to determine the profile of physical condition by measuring the level of physical illness and physiology of Taekwondo athletes in the Situbondo Regency. A total of 8 athletes as research subjects. The study results consisted of physical conditions, which were divided based on anthropometrics...

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### Analysis of the Physical Condition of Pasuruan Finswimming Athletes

Muhammad Dzul Fikri, Achmad Widodo, Awang Firmansyah, Testa Adi Nugraha, Andika Bayu Putro, Mokhammad Riyad

The focus of this study was to determine and analyze the level of physical condition possessed by diving athletes in Pasuruan. The data obtained will be used as material for development and a benchmark for physical conditions that divers must own at the provincial level in other regions. This study used...

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### A Study on Information Regulation as a Legal Instrument for Protecting E-Consumers During COVID-19 Pandemic Outbreak

Norhasliza binti Ghapa, Farhanin binti Abdullah Asuhaimi

The COVID-19 is an infectious respiratory disease caused by a novel coronavirus, severe acute respiratory syndrome coronavirus 2 (SARS- CoV-2) which is primarily transmitted between people through respiratory droplets and contaminated objects; airborne transmission may be possible in specific circumstances....

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## The Understanding of Universitas Negeri Surabaya Students of Sexual Violence on Campus

Elisabeth Septin Puspoayu, Dian Ayu Larasati, Iman Pasu Marganda H. P., Graciela Natasha Tesselonica Lektonpessy, Laily Wahyuningtyas Putri Hariono

A violence that happens against women has become an interesting discussion. Indonesia has been in an emergency situation at protection from sexual violence mainly for women. Law No. 23 of 2004 on Elimination of Domestic Violence, Law No. 23 of 2002 which has amended by Law No. 35 of 2014 on Amending...

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## The Concept of Fitness for Purpose of Goods in Malaysian Today's Online Contract: Issues and Challenges

Farhanin binti Abdullah Asuhaimi, Zuhairah Ariff binti Abd Ghadas, Nazli Ismail Nawang, Norhasliza binti Ghapa

The advanced technology and the user-friendly features of many e-commerce

websites in Malaysia make many Malaysian consumers opt to buy their necessities using online platforms rather than the traditional face-to-face method. When the Prime Minister made an announcement of the Movement Control Order...

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## Corporate Governance Framework for Shariah Compliant Corporation

Hartinie Abd Aziz, Zuhairah Ariff Abd Ghadas

Corporate governance emphasise on the moral and ethical dimensions of managing a company's business. The word corporate governance refers to a system of control of corporation and systems of accountability of those in control. The High Level Finance Committee Report 1999, defines corporate governance...

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## Legal Aspects of Intellectual Property Rights in Accreditation Instruments of Study Program Performance Reports

Muh. Ali Masnun, Denial Ikram, Niken Nur Angeli Byfitia Saputri, Tasya Destinasari

The purpose of this study is to analyze the legal aspects of IPR related to Study Program Performance Reports (LKPS) as one of the aspects of assessment in the study program accreditation instrument and is stipulated in PERBAN-PT No. 2 of 2019. LKPS requires a letter of determination in the form of a...

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## Limited Company Beneficial Owner Liability in Criminal Acts of Corruption

Fernando

Corruption crimes can be committed by forming LLCs for the express purpose of commissioning corruption crimes and then disguising or disguising the proceeds of such crimes for profit. As was later determined by international bodies such as the OECD, the FATF and the G20, LLC was used by the so-called...

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## The Integrity of the Public Prosecutor in Law Enforcement Within Pancasila Characteristic

Fernando

An important feature of a legal system is the prosecution of crime by the public prosecutor, who is the main advocate of applying the law according to social norms. In carrying out its strategic role, it turns out that there are several practical problems related to its capacity and ability to carry...

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## The Fulfilment of Political Rights of Surabaya Covid-19 Patients at the 2020 Simultaneous Elections in the During Pandemic

Iman Pasu Marganda H.P., Alifia Widianti, Irma Lianna Nabilah

The state must be responsible for fulfilling the political rights of every citizen. Political rights are one of the human rights that cannot be reduced by the state. Even though at the time of the 2020 Simultaneous Elections in the During Pandemic, Indonesia was experiencing the Covid-19 Pandemic, the...

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## Rejection Demonstration of *UU Cipta Kerja* Omnibus Law in Perspective Ralf Dahrendorf's Conflict Theory

Nadzir A. Firdaus, Agus M. Fauzi

As a law country, laws have a very important role in regulating the hustle and bustle of the nation and state. The legislative body as an institution that has the authority to compile and draft laws, of course, in the drafting process it has considered various aspects so that finally a law is created...

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## The Covid-19 Pandemic and Its Relation to the Commercial (Economic) Law, Labor Law, State and International Role

Nomensen Freddy Siahaan

The Covid-19 pandemic is an epidemic global. This affects many things such

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Communication in the Implementation of Child Social Welfare Program (*PKSA*) as an Effort to Fulfill Welfare of Street Children

(Study at East Jakarta Social Service Sub-Dept.)

Ni Putu Ruslina Darmayanthi, Badrudin Kurniawan

The Child Social Welfare Program (PKSA) is a form of integrated, directed, and

sustainable effort that carried out by the government and the community in the form of social services and conditional child social welfare assistance which includes: a) social assistance/fulfillment of basic rights; b) increasing...

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# Characteristics and Water Usage Pattern of Karstgroundwater User Communities of “Spamdus Genjahan” in Wonosari Basin

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## ABSTRACT

“Spamdus Genjahan” is a karst groundwater management system in Genjahan village which include in Ledok Wonosari basin. Smart water quality monitoring and management system based on the internet of think (IOT) is a new innovation that will be applied to the operation of "Spamdus Genjahan". The application of new innovations really needs to understand the character and water consumption patterns of the people who are candidates for using these innovations. Therefore, this study aims to explore the characteristics and patterns of use of karst groundwater in the community who use water from this system. The population of this research is the entire community of water users managed by Spamdus Genjahan. Data is taken through observation and interviews. Data were analyzed through the mean analysis method and presented using tables and graphs. The results showed that the majority of the people who use Spamdus Genjahan water have a low to medium level of education with the main job in the non-formal sector, namely farmers or laborers and odd jobs. In line with this, the level of community knowledge regarding water quality is relatively low. Most of the family members who use this water are 4 to 5 people in one family. Most of the use of water is used for washing, bathing, cooking and drinking water.

**Keywords:** *Karst groundwater, Water use pattern, Characteristics of karst water user communities*

## 1. INTRODUCTION

Water is a vital resource for human life. The Gunungsewu karst community in general uses water to meet their drinking water needs, bathing and washing as well as feeding livestock [1, 2, 7]. Sources of meeting water needs in karst areas during the rainy season when there is no access to water network often use water from rainwater reservoir or lake water [2, 7, 16, 17].

Genjahan Hamlet is geomorphologically included in the Wonosari Ledok area. The characteristics of karst bedrock that have many fractures trigger water scarcity on the surface, especially during the dry season. A joint effort from the Dusun Genjahan community for water management has been carried out so far to ensure its availability for the community. Similar efforts are also carried out in other

places [8, 9]. Water is sourced from karst groundwater pumping and distributed throughout the community through pipelines. The system in this research area is called "Spamdus Genjahan". The system is implemented simply and manually. Increasing the efficiency of the Spamdus Genjahan system management is carried out by implementing a Smart water quality monitoring and management system based on the internet of think (IOT). This system is in the form of an automatic system for sensor-based water quality monitoring and an internet-based and application-based water management system.

The application of innovation requires understanding and knowledge regarding the characteristics of the people who will use the innovation. Understanding these characteristics is related to the knowledge and needs of the community for this innovation. A good understanding of the

characteristics of the community of potential users of innovation is expected to be the basis for improving the method of implementing the innovation. Furthermore, it is hoped that the performance and work results of this innovation can be maximized. In line with this, this study aims to explore the characteristics and patterns of karst groundwater utilization in water user communities managed by Spamdus Genjahan.

**2. METHODS**

**2.1 Population and samples**

The population used in this study is the entire community of water users managed by Spamdus Genjahan. Samples are taken proportionally based on the administrative location of the residence of the water user. Based on this, a sample of 102 respondents was obtained spread in the hamlets of Genjahan, Ngrombo 2, Jetis, and Silingi. Respondents from the Genjahan hamlet had the highest number of 78 respondents or 76% of the entire sample. This is because the majority of the water users from the Genjahan Spamdus are in the Genjahan hamlet. The next respondents came from Silingi hamlet which amounted to 15 respondents, Jetis hamlet 5 respondents, and Ngrombo 2 hamlet with 4 respondents.

**2.2 Data and analysis**

The data taken in this study include education, occupation, type of consumption, number of families, patterns of water use, and the level of knowledge of the population about water quality. Data obtained through direct observation and interviews. Direct observations were made to ensure the correctness and uniformity of the size of data collection tools such as buckets used for water collection. Data is recorded through google form and analyzed using the mean percentage of each parameter. The results of the analysis are presented descriptively with tables and graphs.

The education level of the respondents is classified into elementary school (SD), junior high school (SMP), senior high school (SMA), and Bachelor/undergraduate (S1). This data is used to determine the number of respondents who have completed primary, secondary and higher education. The type of work is classified into odd or irregular, farmers or laborers, traders, civil servants, and the troops or police. The number of family members is calculated based on the number of people who live permanently in the house. Types of consumption are analyzed based on the type and amount of expenditure to meet the needs of rice as a staple food, side dishes, transportation, health, and other needs. The pattern of water utilization is analyzed based on the type of utilization and the amount of water used for each type of water utilization. Respondents' level of knowledge related to water quality was identified by questionnaire about water quality parameters recorded by the Smart water quality monitoring and management system, namely pH, TDS,

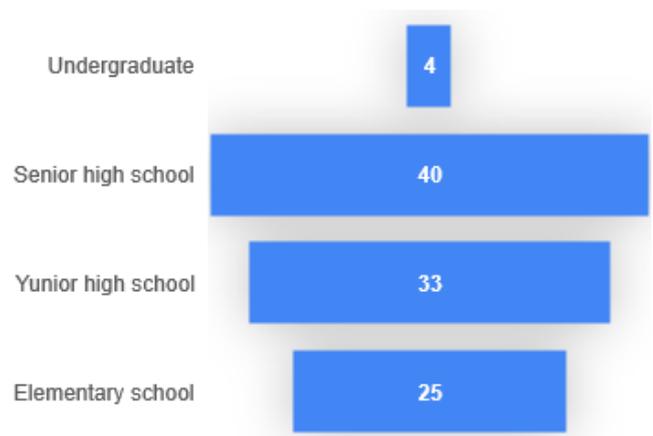
turbidity, and temperature. Respondents are considered to have high knowledge if they can answer all the questions correctly. On the other hand, respondents are considered to have low knowledge if they provide correct answers with a number of less than 20% of the number of questions or choose the option of not answering more than 80% of the number of questions.

**3. RESULTS AND DISCUSSION**

**3.1. Result**

**3.1.1. Community education level**

The results showed that the education level of the Spamdus Genjahan water users was at the lower middle level. The majority of the education levels completed by the population are at the senior high school, junior high school and elementary school levels. The number of residents who completed the high school education level had the highest number, namely 40 people or 39.2% of all respondents. The next largest number is the population with a junior high school education level, which is 33 people or 32.4% of all respondents.



**Figure 1** Respondent education

The education level of senior high school and junior high school is categorized at the level of secondary education. The number of people who have an elementary education level is as many as 25 people or as much as 25% of all respondents. Elementary level is categorized as basic or low level of education.

The number of people who have successfully completed higher education up to the undergraduate level is only 4 people or 3.9% of all respondents. This number is relatively small compared to the number of people who have secondary and low levels of education. Based on this data, it can be seen that the majority of water users have lower secondary education levels.

**3.1.2. Occupation**

Based on the results of interviews, it is known that the types of work of the water user community from Spamdus Genjahan there are four types of work, namely farmers or laborers, odd or uncertain, traders, and civil servants. Farmers or laborers are the types of work carried out by most of the people in the research area. The type of work as a farmer or laborer has the highest number of 48 respondents or 47.1% of all respondents. Farmer is carried out in the form of dry land agriculture by relying on rainwater as a source of irrigation. Palawija or crop planted such as peanuts, soybeans, and corn are staple crops that are planted in rotation according to seasonal conditions. Cassava plants are cultivated as border crops on the edge of agricultural land. The harvest is sold as a source of basic income. Some people sell their harvests in the form of raw materials or semi-finished materials. Considering that the source of irrigation comes from rainwater, the success of community agricultural businesses is highly dependent on seasonal conditions.

**Table 1.** Respondent job type

Job	sum	percent (%)
Odd Job	42	41.2
Farmer / labour	48	47.1
Merchant	8	7.8
Government employees	4	3.9

Source: calculation results

The number of respondents with odd jobs or not necessarily amounted to 42 people or 42% of the total number of respondents. This type of work is also the dominant type of work carried out by the community. The work carried out is not necessarily in accordance with the existing demand. In general, this work is in the form of helping with farming, helping with housework, to helping with building construction. During the growing season, many of these odd jobs help with farming work such as hoeing, clearing land, or planting. During the dry season, many of these casual workers turn to building construction or other work.

Farmer, labor, and odd jobs are the dominant types of work in the research area. In total, the percentage of the two types of work reaches 88.3% and is evenly distributed throughout the existing hamlets. The data illustrates that most of the people in the study area depend on their source of income from non-formal sector work.

Other types of work, namely traders and civil servants, are only carried out by a small part of the community. Traders are only carried out by as many as 8 people while civil servants are only 4 people. Trading work in the form of opening a grocery shop, staple food or culinary on a small to medium scale. Work is carried out in a self-owned or rented kiosk. Most of these trading business locations are located around the wage market which is the center of buying and selling in the research area.

**3.1.3. Consumption type**

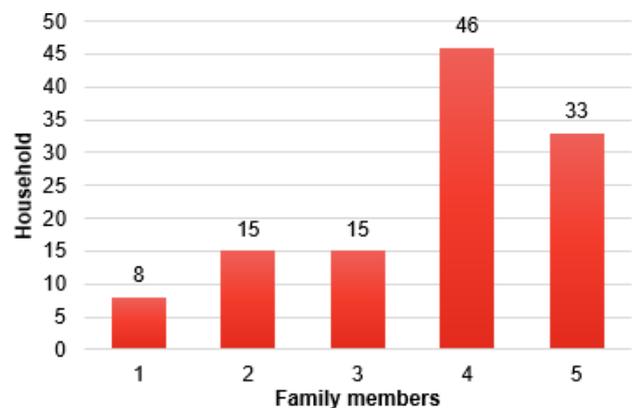
Based on the interview results, it is known that the types of consumption carried out by the Spamdus water users are in the form of purchasing rice as a staple food, purchasing side dishes, fulfilling transportation needs, health needs, and other needs. The calculation results show that the expenditure for the purchase of side dishes is the largest type of expenditure. The need for fulfilling side dishes in the majority is in the range of 500 thousand to 750 thousand rupiah, which is 48% of the total respondents. 24% of respondents have a higher level of spending on side dishes, which is above 750 thousand. Meanwhile, the population whose consumption of side dishes is between 250 thousand and 500 thousand is around 27.5% of the total respondents.

Consumption expenditure for the purchase of rice ranges from 5 kilograms to more than 20 kilograms. Most people consume more than 20 kilograms of rice. This number reached 44.1% of the total respondents. The second group that has a large number of respondents is consuming between 15 to 20 kilograms of rice. The number of respondents reached 35.3%. If these two groups are combined, it can be seen that most people consume more than 15 kilograms of rice per month per family.

Other needs, namely transportation, health, and other needs, receive a small allocation. The majority of people allocate funds of less than 250 thousand rupiah for each of these needs. This group is in the range of 75.5% to 86.3% in each of these types of needs. Only a small part of them spend consumption for these needs above 250 thousand rupiah.

**3.1.4. Number of family**

The number of family members is linearly related to the amount of water consumption. Every family member needs water for their basic needs. Most families using Spamdus Genjahan water have a family of 4 or more people. Based on calculations, groups that have family members as many as 4 people or more reach as many as 64 respondents or reach 62.4% of the total number of respondents.



**Figure 2** Distribution of respondent's family members

Figure 2 shows a fairly clear difference in the number of families with 3 and below members and families with 4 and above members. In total, there are 38 families with 3 or less members. Meanwhile, families with 4 members and above are 79 families. Based on the percentage, the respondent's family that has 2 to 3 family members is only 25.4%. The remaining 7.8% live alone in the family. The total number of families with 3 members and below is only 33.2%. This data shows that the majority of respondents' families are large families. This number is very likely to have an influence on the amount of water consumption in each of these families. The more family members it is possible to use more water.

### 3.1.5. Water usage pattern

Water from Spamdus Genjahan is used to fulfill basic family needs. These types of needs are for drinking water, bathing, washing and drinking water for livestock. Before being used, some people collect water in a large reservoir. This reservoir functions as a reservoir as well as a water reservoir. The collected water is then channeled through a network of pipes into houses such as kitchens, bathrooms, and other parts. Some other communities use water directly without holding it. Water from the Spamdus network is directly channeled into the pipe network inside the house.

Some people have other water sources apart from water that comes from the Spamdus Genjahan network. This source is in the form of dug wells around people's homes. One dug well is used by more than one family together. Water is drawn using a pump or bucket.

The largest amount of this water use is in the use of water for washing. There are variations in the frequency of washing from twice a week to seven times a week. Based on calculations, it is known that the majority of the washing frequency is done seven times and four times a week. Each use for washing, the amount used on average is more than five 15 liter buckets.

The next use is for bathing purposes. Based on interviews, it is known that almost all respondents take bath 2 times a day, namely in the morning and evening. The amount of water used for bathing is 2 to 3 buckets measuring 15 liters. The water used for bathing is accommodated in a tub. Most of the bathing process is done by pouring water on the body using a dipper.

The next use of water is for cooking purposes. The majority of the use for cooking uses 2 buckets of 15 liters of water. The number of respondents in this group reached 94.1%. This condition describes almost the same pattern of most of the Spamdus water users in cooking activities. Others use more water, but the number of respondents in this group is only 3.9%. The water used for cooking is taken directly from the faucet connected to the Spamdus Genjahan system.

There are other uses of water carried out by the community using Spamdus Genjahan water, namely the use of drinking water for livestock. Types of livestock that

require a lot of water are goats and cows. Other livestock kept by the community are chickens, but the number for the purpose of feeding chickens is so small that it is neglected in this study. The amount of water used to feed the cattle is 3-4 buckets of 15 liters per head per day. Meanwhile, the amount of water used to feed goats is 2-3 buckets of 15 liters per day.

### 3.1.6. Knowledge level about water quality

Knowledge of water quality is very important in the use of water, especially karst groundwater. The calculation results show that most of the people who use Spamdus Genjahan water do not have the correct knowledge regarding water quality parameters. In general, more than 95% of the people chose the no-answer option on questions related to pH, turbidity, TDS, and temperature parameters.

Based on depth, the pH parameter tends to be the most widely known by the public compared to other parameters. In this question regarding the meaning of pH, there are 23.5% correct answers. This number is much larger than the correct answer regarding the other parameters. However, knowledge of the pH conditions in Spamdus Genjahan water which has been used so far, the correct answer fell to 17.6%. This shows the need for a tool such as a Smart Water Quality and Management System that will be applied to this Spamdus Genjahan system. This application is expected to increase understanding regarding the condition of water quality used by the community in real time.

Questions about TDS parameters have 2.9% correct answers. This number is smaller than the correct answer to questions related to pH parameters. Other respondents, 97.1% chose the option not to answer. This number shows that most people do not know the meaning of this TDS parameter.

Questions about temperature parameters gave correct answers as much as 8.8%. This number is greater than the correct answer regarding the TDS parameter, but still lower than the correct answer regarding pH. Other respondents chose the option not to answer that is equal to 91.2%. This data also shows that most people do not know the meaning of the temperature parameter.

Meanwhile, the question about the turbidity parameter does not give the correct answer. 97.1% chose the no answer option, while 2.9% were wrong answers. From this data it means that all respondents do not know the meaning of this turbidity parameter.

## 3.2. Discussion

The results showed that most of the education levels of the Spamdus Genjahan water users were at the lower middle level, the majority of the occupations were farmers, laborers and casual workers, with more than 4 family members. The type of expenditure carried out is for the purposes of side dishes and the purchase of rice as a staple food, and a small portion is for transportation, health and other needs. Water is used by the community for washing, bathing and cooking in

varying amounts. Almost the entire community of Spamdus Genjahan water users have not received sufficient knowledge regarding water quality. The pH parameter is the parameter most familiar by the public. Meanwhile, the turbidity parameter is a parameter that has not been understood by the public.

Findings regarding education level are in line with [3] where the level of public education in the Gunungsewu area is generally low. However, the findings of this study indicate that the average level of education is higher than the level of education in the study area in the reference [3]. The same thing happened in the research area [4] namely Kemiri village where the majority of the population only finished elementary school. This condition is also strengthened in the exposure of the information conveyed by the reference [14] and findings from references [19]. The level of community education has an important role in efforts to conserve water resources [10 - 12, 15].

The main types of people's work found in this study are the majority as farmers or laborers. This condition is in accordance with findings in other areas in the Gunungkidul district [4, 14]. Several changes in the form of work from agriculture to other occupations such as fishing and trading occur in several places. However, work as a farmer is still carried out as an effort when the results of other work are not in good condition [5, 6]. This work as a farmer is a form of work that the community can best do, in line with their level of education. A small proportion of people with higher levels of education have jobs as civil servants, traders, troops or police.

The type of consumption in the largest community is consumption to meet the needs of side dishes and rice. This condition describes the pattern of needs that are still in meeting basic needs. There is not much variety of activities carried out by the community in the research area. Reference [19, 20] shows examples of conditions in other areas in Gunungkidul Regency which show similar consumption patterns of the population. Dependence on rice is very high for people in the Gunungkidul Regency area until now.

Community families in the research area generally have a large number of members. The number of family members disclosed in this study is in line with the findings [20] which states that on average each family head bears 4 family members. It was further stated that the more the number of family members, the greater the household expenditure. The number of family members can have an influence on family conditions. Reference [18] states that the number of family members can have an influence on family food security.

The pattern of water utilization in the research area is generally the same as the pattern of water use in the Gunungsewu karst area. The main use is for drinking or cooking, bathing, washing and feeding livestock. Utilization of water for drinking, cooking, bathing and washing is the use carried out by every family. Meanwhile, the use to feed livestock is only carried out by families who own livestock. Not all families own livestock. The same thing was said by [1, 7, dan 10]. The difference found compared to the

reference is that the people in the research area only use water from wells and Spamdus Genjahan. There are no people who use water from karst lakes and rainwater reservoir. This is because the research area is flat and is included in the Wonosari Ledok area which does not have many lakes. Thus, the need for water fulfillment is completely piled up from water originating from Spamdus Genjahan and several wells that still have water. Some of the water in the residents' wells has a different discharge depending on the location and season.

The level of knowledge of the Spamdus Genjahan water users is at a low level. This is known from the lack of correct answers to questions about water quality parameters that are monitored through the Smart water quality monitoring and management system. This fact also occurs in other communities in the Gunungsewu karst region as revealed by [3 dan 10]. However, this low level of knowledge about water quality does not affect the level of community participation in the conservation of karstic underground water resources. Public attention to efforts to conserve water resources is quite high.

#### **4. CONCLUSION**

Based on the results and discussion above, it can be concluded as follows.

1. Characteristics of the community using Spamdus Genjahan water can be characterized through the parameters of education level, type of work, type of consumption, number of family members, water usage patterns, and level of knowledge about water quality.
2. Based on these parameters, it is known that in general the education level of the community is at the lower middle level, the occupation is a farmer or laborer and is not permanent, the largest type of consumption is for the needs of side dishes and rice, has a family of 4 to 5 people, uses water for washing purposes. bath and cook and water livestock, and have low knowledge of water quality.

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