

COMMITTEE OF ICAISD 2020

“INTERNATIONAL CONFERENCE ON ADVANCED
INFORMATION SCIENTIFIC DEVELOPMENT (ICAISD)”
AUGUST 6-7, 2020

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- **Logistic Coordinator:**
- Riska Aryanti
- Rizki Ade Safitri
- Tya Septiani Nurfauzia Koeswara

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Peer review declaration

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Peer review declaration

All papers published in this volume of **Journal of Physics: Conference Series** have been peer reviewed through processes administered by the Editors. Reviews were conducted by expert referees to the professional and scientific standards expected of a proceedings journal published by IOP Publishing.

Type of peer review: Single-blind / Double-blind / Triple-blind / Open / Other (please describe) Of the 213 articles received by the committee, there were 2 articles that did not include the full paper, so the committee rejected the article. Furthermore, 211 articles were submitted to the reviewer for a review process using the single-blind type (the reviewer knows the author of the article). The reviewers at the ICAISD-2020 seminar consist of experts in the fields of Applied Science, Artificial Intelligence, and Management who have at least 5 Scopus-Index qualifications in their respective fields.

Reviewer gives a score of 3 to -1 (3 Strong accept, 2 Accept, 1 Weak accept, 0 Borderline paper, -1 Weak reject, -2 Reject, -3 Strong reject).

Furthermore, based on the provisions of the seminar committee meeting, the articles received are those that have a score of 0 to 3 with the number of articles 148 which will then be camera ready by uploading the revised article on the icaisd.info. Meanwhile, articles with a score of -3 to -1 were rejected with a total of 63 articles.

Conference submission management system: Conference Management System used is easychair

☐ **Number of submissions received: 213**

☐ **Number of submissions sent for review: 211**

Number of submissions accepted: Numbers of accepted articles are 148 however, 3 authors do not do the presentation of their articles.

☐ **Acceptance Rate (Number of Submissions Accepted / Number of Submissions Received X 100): 69,48**

Average number of reviews per paper: Each article is on average reviewed by 2 reviewers, if one reviewer accepts and one reviewer rejects, we will give it to the third reviewer to take into consideration whether the article is accepted or rejected.

Total number of reviewers involved: Total numbers of reviewers involved are 22 persons

Any additional info on review process: After the review process is complete, the accepted article will be informed to the author to be corrected / revised and re-uploaded the revised

document and its presentation document via the <http://icaisd.info/icaisd/login.aspx> page to be presented again on 6-7 August 2020 via Zoom

Contact person for queries: Mr. Agus Priadi



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Attachment Info for Preface

To cite this article: 2020 *J. Phys.: Conf. Ser.* **1641** 011002

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- [THE INTERNATIONAL RESEARCH COUNCIL AND THE INTERNATIONAL ASTRONOMICAL UNION](#)

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Location of the event

The location of the ICAISD-2020 Conference was virtually using the Zoom Meeting

Topic: UBSI ICAISD 2020 "SCIENTIFIC INFORMATION FOR LIVING WELFARE" (Part 1)

Time: Aug 6, 2020 09:00 AM Bangkok

Join Zoom Meeting

<https://zoom.us/j/7326877081?pwd=TVFOR1E2YIZEUFR5Q0h5NXIEK1pKQT09>

Meeting ID: 732 687 7081

Passcode: ICAISDBEST

Topic: UBSI ICAISD 2020 "SCIENTIFIC INFORMATION FOR LIVING WELFARE" (Part 3)

Time: Aug 7, 2020 10:30 AM Bangkok

Join Zoom Meeting

<https://zoom.us/j/7326877081?pwd=TVFOR1E2YIZEUFR5Q0h5NXIEK1pKQT09>

Meeting ID: 732 687 7081

Passcode: ICAISDBEST

While the off-line event specifically for the Committee was held at the BSI Convention Center, Bekasi, West Java, Indonesia. The implementation began with the delivery of the schedule by the MC and was opened by the chairman of Aptikom (Association of Computer and Informatics Higher Education) Prof. Zainal A. Hasibuan and continued with remarks from the Rector of Universitas Bina Sarana Informatika, Dr. Mochamad Wahyudi, MM., M.Kom, M.Pd.



Figure 1. Welcoming Remarks from Rector of Universitas Bina Sarana Informatika

Plenary of Each Speaker

The keynote speakers each delivered 45 minutes of seminar material through Zoom Meetings in their respective places. As in the following table:

ICAISD 2020
INTERNATIONAL CONFERENCE ON ADVANCED INFORMATION SCIENTIFIC
DEVELOPMENT
" Scientific Information For Living Welfare "

MEETING ID : 732 687 7081

PASSCODE :

ICAISDBEST

JAKARTA , 6 AGUSTUS 2020

TIME					EVENT	Screen	FOH	DESCRIPTION
09.00.00	-	09.15.00	00.15.00	15'	Registration	Music Play		
09.15.00	-	09.18.00	00.03.00	3'	VIDEO OPENING			
09.18.00	-	09.23.00	00.05.00	5'	PRAY TO GOD Session			
09.18.00	-	09.28.00	00.10.00	10'	Insert MC 1 - Opening, Introducing, Present (Mr Agus & Mrs Cich)	Live Cam	Mic MC	Welcome Remark
09.28.00	-	09.28.30	00.00.30	30 "	BUMPER			
09.28.30	-	09.29.00	00.00.30	30 "	Insert MC 2 - Sing Together , The National Anthem Of Indonesia			
09.29.00	-	09.31.00	00.02.00	2'	INDONESIA RAYA			
09.28.30	-	09.29.00	00.00.30	30 "	Insert MC 3 - Welcome Speech by Rector	Live Cam	Mic MC	
09.29.00	-	09.29.15	00.00.15	15 "	BUMPER IN			
09.29.15	-	09.41.15	00.12.00	12'	RECTOR SPEECH			
09.41.15	-	09.41.30	00.00.15	15 "	BUMPER OUT			
09.41.30	-	09.42.00	00.00.30	30 "	Insert MC 4 - Opening Remark by Head Of LLDIKTI 3 (APTIKOM *)	Live Cam	Mic MC	Audience sdh duduk kembali
09.42.00	-	09.42.15	00.00.15	15 "	BUMPER IN			
09.42.15	-	09.56.15	00.14.00	14'	APTIKOM + OPENING			
09.56.15	-	09.56.30	00.00.15	15 "	BUMPER OUT			
09.56.30	-	09.57.00	00.00.30	30 "	insert MC 5 - Invite Keynote Speech 1	Live Cam	Mic	
09.57.00	-	09.58.00	00.01.00	1'	BUMPER PROFILE KEYNOTE SPEECH 1 (Prof. Ir. Zainal Arifin Hasibuan, MLS., Ph.D)			
09.58.00	-	10.43.00	00.45.00	45'	Keynote Speech 1 (Prof. Ir. Zainal Arifin Hasibuan, MLS., Ph.D)	Live Cam	Mic Keynote	

10.43.00	-	10.43.15	00.00.15	15"	BUMPER Out			
10.43.15	-	10.43.45	00.00.30	30"	insert MC 6 - Invite Keynote Speech 2	Live Cam	Mic	
10.43.45	-	10.44.45	00.01.00	1'	BUMPER PROFILE KEYNOTE SPEECH 2 (Prof Dr Herman Mawengkang)			
10.44.45	-	11.29.45	00.45.00	45'	Keynote Speech 2 (Prof Dr Herman Mawengkang)	Live Cam	Mic Keynote	
11.29.45	-	11.59.45	00.30.00	15'	insert MC 7- Q&A Session 1			
11.59.45	-	12.59.45	01.00.00	60'	BREAK TIME			
12.59.45	-	13.00.00	00.00.15	15"	BUMPER Out			
13.00.00	-	15.00.00	02.00.00	120'	PARALLEL SESSION (10 Classroom) Chapter 1			
15.00.00	-	15.00.15	00.00.15	15"	BUMPER			
15.00.15	-	15.10.15	00.10.00	10'	Music Play			
15.10.15	-	15.10.45	00.00.30	30"	insert MC 9 - Invite Keynote Speech 3	Live Cam	Mic	
15.10.45	-	15.11.45	00.01.00	1'	BUMPER PROFILE KEYNOTE SPEECH 3 (Prof Dr Dorlen De tombe)			
15.11.45	-	15.56.45	00.45.00	45'	Keynote Speech 3 (Prof Dr. Dorlen De Tombe)	Live Cam	Mic Keynote	
15.56.45	-	15.57.00	00.00.15	15"	BUMPER out			
15.57.00	-	15.57.30	00.00.30	30"	insert MC 10 - Invite Keynote Speech 4	Live Cam	Mic	
15.57.30	-	15.58.30	00.01.00	1'	BUMPER PROFILE KEYNOTE SPEECH 4 (Prof Gerhard W. Weber)			
15.58.30	-	16.43.30	00.45.00	45'	Keynote Speech 4 (Prof Gerhard W. Weber)	Live Cam	Mic Keynote	
16.43.30	-	16.43.45	00.00.15	15"	BUMPER out			
16.43.45	-	17.13.45	00.30.00	30'	insert MC 11- Q&A Session 2			
17.13.45	-	17.14.00	00.00.15	15"	BUMPER Close			



Figure 2. The material delivered by Keynote Speaker: Prof Zainal A. Hasibuan (Head of APTIKOM)



Figure 3. The Presentation of Keynote Speaker: Prof Zainal A. Hasibuan (Head of APTIKOM)



Figure 4. The Material delivered by Keynote Speaker: Prof. Dr. Herman Mawengkang (Universitas Sumatera Utara)



Figure 5. The Material delivered by Keynote Speaker: Prof. Dr. Dorien De Tombe (Delft Technical University, The Netherlands)



Figure 6. The Material delivered by Keynote Speaker: Prof. Dr. Gerhard W. Weber (Poznan University of Technology, Poland)

• The Discussions, the Feasibility, Room for Q&A?

The questions asked by the participants for the keynote speaker were presented in two ways:

1. Through the chat room zoom meeting addressed to the committee to be conveyed to the keynote speaker.
2. Ask directly through zoom using the unmute feature by informing the committee in advance with the raise hand. Direct submission of questions is limited to a maximum of 5 questions for each keynote speaker.

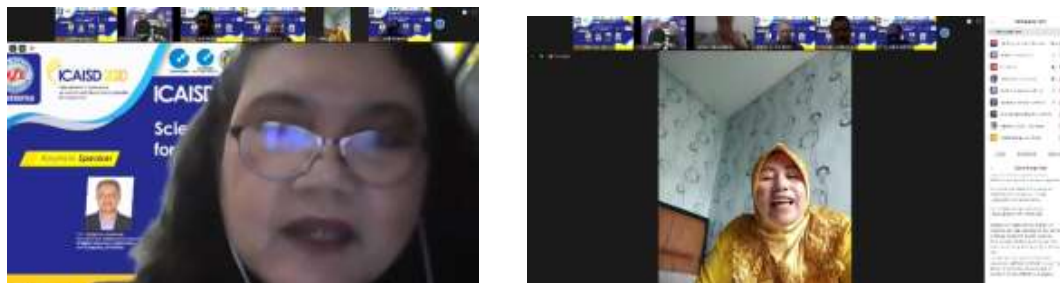


Figure 7. The Participants were delivering the Questions Addressed to Keynote speakers

The committee gave 15 minutes for each question session.

• **The participants: location and the overall attendance number expected.**

Of the 148 articles received, 145 article authors uploaded the presentation file and revision file from the author and then presented it on 6 and 7 August 2020. One of the authors of the article represented each article title in the presentation. All participants presented their research results for approximately 15 minutes per article which was divided into 10 rooms (online parallel sessions) which were assessed by the reviewer in each zoom room to determine the best presenter in each zoom room as attached to the schedule.

LIST OF SPEAKERS

Room : 1
 Category : Applied Science
 Moderator : Mr. Jimmi
 Invite Link : <https://zoom.us/j/8244410030?pwd=QjRTV3RTNWtoM2UzMHM4a0xLOWVaQT09>
 ID Meet : 824 441 0030
 Password : ICAISD01
 Durasi : 15 Minutes/ Team
 Total Durasi : 225 Minutes

(DAY 1) 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full paper	DAY
1	13.00 - 13.15	13	Qudsiah Nur Azizah, Taopik Hidayat, Dwiza Riana, Tino Dwiantoro, Suhardoyo, and Saghifa Fitriana	Understanding Impact of M-banking on Individual Performance of the DeLone & McLean Method and TTF Perspective	(DAY 1) 06 AUGUST 2020
2	13.15 - 13.30	15	Moh. Arie Hasan, Dwiza Riana, Sigit Swasono, Ade Priyatna, Eni Pudjiarti, Lusa Indah Prahartiwi	Identification of Grape Leaf Diseases Using Convolutional Neural Network	
3	13.30 - 13.45	19	Frieyadie, Adriana Hadi Sukmawati and Nurajijah	Combination of the SAW and TOPSIS Method For Determining The Best Marketplace Recommendations	
4	13.45 - 14.00	26	Faiza Renaldi, Meryana Putri Ramandhani, Esmeralda Djamal and Irma Santikarama	Integrated Monitoring Platform for Collaborative Youth Communities in Indonesia: A Case of e-Government Implementation for the Rural Millennial	
5	14.00 - 14.15	28	Normah, Ita Yulianti, Deny Novianti, Monikka Nur Winnarto, Ainun Zumarniansyah and Safitri Linawati	Comparison of Classification C4.5 Algorithms and Naïve Bayes Classifier in Determining Merchant Acceptance on Sponsorship Program	

6	14.15 - 14.30	29	Sari Hartini, Windu Gata, Sigit Kurniawan, Hendra Setiawan and Kadinar Novel	Cosmetics Customer Segmentation and Profile in Indonesia Using Clustering and Classification Algorithm
7	14.30 - 14.45	30	Indah Purnamasari, Frisma Handayanna, Ester Arisawati, Linda Sari Dewi, Erene Gernaria Sihombing and Rinawati Rinawati	The determination analysis of telecommunications customers potential cross-selling with classification naive bayes and c4.5
8	08.30 - 08.45	33	Tiara Eka Putri, Ridho Taufiq Subagio, Kusnadi and Petrus Sokibi	Classification System Of Toddler Nutrition Status using Naïve Bayes Classifier Based on Z- Score Value and Anthropometry Index
9	08.45 - 09.00	34	Doni Andriansyah and Lukman Nulhakim	The Application of Power Business Intelligence in Analyzing the Availability of Rental Units
10	09.00 - 09.15	36	Mercurius Broto Legowo, Steph Subanidja and Fangky Antoneus Sorongan	FinTech and Bank: Past, Present, and Future
11	09.15 - 09.30	38	Fintri Indriyani, Eni Irfiani, Frans Schadu, Syaiful Anwar and Rahmat Hidayat	The Determination of Yarn Supplier by Using the Weight Product Method
12	09.30 - 09.45	39	Syahrani, Adelia Alviyana and Tri Santoso	Sentiment analysis of facebook comments on indonesian presidential candidates using the naïve bayes method
13	09.45 - 10.00	40	Wanda Ilham, Tiara Putri, Petrus Sokibi, and Kusnadi	Application of Fuzzy Multy Attribute Decesion Making Method in Decision Making System For Determining The Provision Of Achievement Scholarship in SMP N 1 Simpati
14	10.00 - 10.15	41	Rusdiansyah, Mohammad Badrul, Tuslaela, Hendra Supendar, Nining Suharyanti and Agus Junaidi	Expert System in Clustering the Damage of a Motorcycle Matic with the K-Mean Algorithm

(DAY 2) 07 AGUST 2020

15	10.15-10.30	43	Siti Ernawati, Risa Wati, Nuzuliarini Nuris, Lita Sari Marita and Eka Rini Yulia	Comparison of Naïve Bayes Algorithm with Genetic Algorithm and Particle Swarm Optimization as Feature Selection for Sentiment Analysis Review of Digital Learning Application
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Materials & Methods (1)

- Of the many marketplace services, the authors take four marketplace services as examples for the application of the SAW and TOPSIS methods. Table 1 there are four alternative marketplaces.

Alternative	Information
A1	Shopee
A2	Tokopedia
A3	Bukalapak
A4	OLX

Figure 8. The Material delivered by One of the Participants in Room 1

LIST OF SPEAKERS

Room : 2
 Category : Applied Science
 Moderator : Mrs. Rizky Mirani Desi Pratama

Invite Link : <https://zoom.us/j/6640421517?pwd=NW5VTzZ3bFFOZC8xMU1pWmdRSIRVUT09>

ID Meet : 664 042 1517

Password : ICAISD02

Durasi : 15 Minutes/ Team

Total Durasi : 225 Minutes

DAY 1, 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full Paper	DAY
1	13.00 - 13.15	45	Dany Pratmanto, Rousyati, Fanny Fatma Wati, Andrian Eko Widodo, Suleman, and Ragil Wijianto	App Review Sentiment Analysis Shopee Application In Google Play Store Using Naive Bayes Algorithm	(DAY 1) 06 AUGUST 2020
2	13.15 - 13.30	48	Dahlia Sarkawi, Suparman Hi Lawu, Anggi Oktaviani, Agus Priadi and Idah Yuniasih	Method for Calculating Children's Parenting and Self-Concept towards Student's Environmental Behaviour Using Correlational Approach	
3	13.30 - 13.45	49	Lena Magdalena and Yuni Awalaturrohman Solihah	Design of IT Governance Evaluation Using COBIT Framework through Capability Maturity in Department of Transportation Cirebon	
4	13.45 - 14.00	51	Jusuf Fadilah, Anisti, Ita Suryani, Azwar Munanjar and Agus Priadi	Brand Image of Bina Sarana Informatika: The Effect of the Use of "Obama-Like" Endorser in the Obama Version TV Advertisement towards the Brand Image of Bina Sarana Informatika (BSI)	
5	14.00 - 14.15	52	Faqih Hamami and Iqbal Ahmad Dahlan	The Implementation of Stream Architecture for Handling Big Data Velocity in Social Media	
6	14.15 - 14.30	56	Kartika Handayani, Eka Herdit Juningsih, Dwiza Riana, Sri Hadianti, Achmad Rifai and Rosi Kusuma Serli	Measuring The Quality of Website Services covid19.kalbarprov.go.id Using The Webqual 4.0 Method	

7	14.30 - 14.45	57	Fadillah Said, Khabib Astoni, Dwiza Riana and Asri Wahyuni	Analysis of Community Satisfaction Level Against the Ministry of Health's Infection Emerging Websites Using Webqual 4.0	(DAY 2) 07 AGUST 2020
8	08.30 - 08.45	58	Dinar Ismunandar, Yanto, Dwiza Riana, Fatmawati, Hylenearti Hertiana and Vito Triantori	User Satisfaction Analysis of Pikobar Covid19 Website Using the Webqual Method	
9	08.45 - 09.00	59	Fakihotun Titiani, Erni, Dwiza Riana, Cahyani Budihartanti, Syaifur Rahmatullah and Taransa Agasya Tutupoly	Analysis of User Satisfaction on Corona.Jakarta.go.id Website: Use Webqual Method 4.0	
10	09.00 - 09.15	60	Indah Suryani and Duwi Cahya Putri Buani	Stock price prediction using artificial neural network integrated moving average	
11	09.15 - 09.30	63	Achmad Fatkharrofiqi, Herman Kuswanto, Taufik Rahman, Sumarna, Felix Wuryo Handono and Hafis Nurdin	Employee attendance application using location based service (lbs) method based on android (Case Study of pt. copyright brainmatics informatics)	
12	09.30 - 09.45	64	Aliyah Kurniasih, Aloysius Kurniawan Santoso, Dwiza Riana, Abdul Rahman Kadafi, Wulan Dari and Arif Ismail Husin	TAM Method and Acceptance of COVID-19 Website Users in Indonesia	
13	09.45 - 10.00	66	Wahyu Nugraha, Muhammad Sony Maulana and Agung Sasongko	Clustering Based Undersampling for Handling Class Imbalance in C4.5 Classification Algorithm	
14	10.00 - 10.15	67	Riska Aryanti, Andi Saryoko, Agus Junaidi, Siti Marlina, Wahyudin, and Lia Nurmalia	Comparing Classification Algorithm With Genetic Algorithm In Public Transport Analysis	

15	10.15 - 10.30	79	Hardiyan, Eka Wulansari Fridayanthie, Noer Azni Septiani, Asep Sayfullloh, Allifah Kusumaningrum and Wahyudin	Efficiency Measurement of Operations Management of Clean Water Company using DEA
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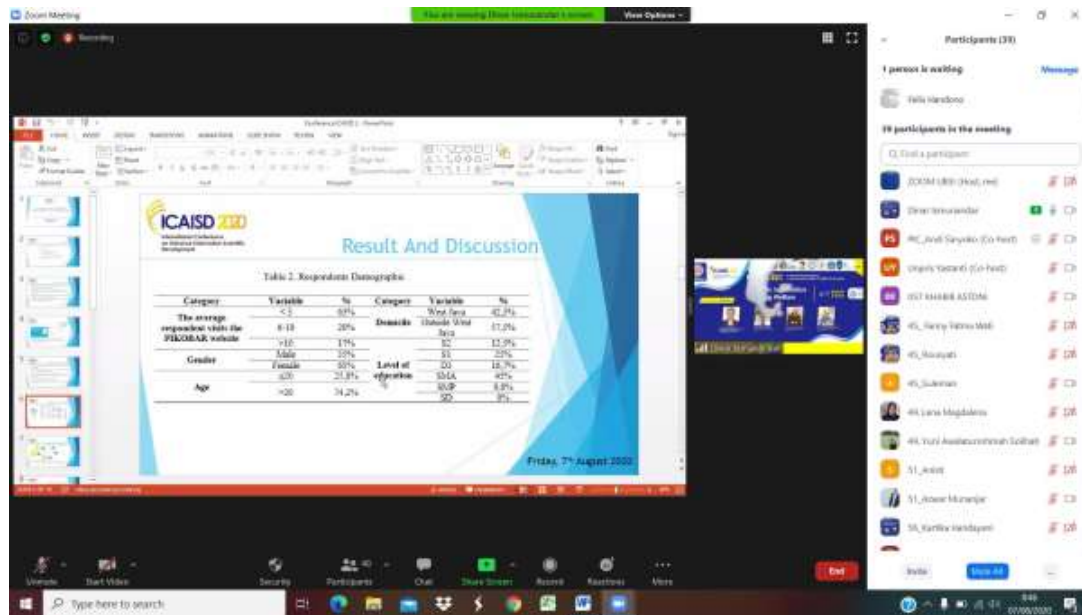


Figure 9. The Material delivered by One of the Participants in Room 2

LIST OF SPEAKERS

Room : 3

Category : Applied Science

Moderator : Mr. Ary Iswanto Wibowo

Invite Link : <https://zoom.us/j/3749365742?pwd=OXVwdlBiU1gwSUJjZjFneUF3NjgrQT09>

ID Meet : 374 936 5742

Password : ICAISD03

Durasi : 15 Minutes/ Team

Total Durasi : 225 Minutes

DAY 1, 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full Paper	DAY
1	13.00 - 13.15	80	Nurajijah, Fachri Amsury, Irwansyah Saputra, Frieyadie, Daning Nur Sulistyowati and Bakhtiar Rifai	Approval of Sharia Cooperative Customer Financing Using PSO-Based SVM Classification Algorithm	(DAY 1) 06 AGUST 2020
2	13.15 - 13.30	83	Hani Harafani, Indah Suryani, Ispandi Perdana and Nur Lutfiyana	Neural Network Parameters Optimization with Generic Algorithm to Improve Liver Disease Estimation	
3	13.30 - 13.45	84	Imam Amirulloh, Iqbal Dzulficar Iskandar, Yanti Apriyani, Ai Illah Warnilah, Dini Silvi Purnia, and Mumun Surahman	Teacher Attendance Monitoring System Teaching with QR-Code and Geo Location using Android Platform	
4	13.45 - 14.00	85	Bagus Dwi Wicaksono, Dwin Indrawan, Dwiza Riana, Andi Taufik, Yamin Nuryamin and Dian Ambar Wasesha	The Influence of Pikobar Application in Suppressing the Rate of Coronavirus Spread	
5	14.00 - 14.15	86	Ahmad Nuryanto, Okki Setyawan, Dwiza Riana, Sri Hadiani, Achmad Maezar Bayu Aji and Endang Pujiastuti	Analysis of the AMARI COVID-19 application with the Technology Acceptance Model Method	

6	14.15 - 14.30	89	Edhi Prayitno, Juarni Siregar, Yumi Novita Dewi, Chaerul Bachri, Luthfi Indriyani and Samsul Ma'Arif	Use Case Points (UCP) with 3 Point in Program Evaluation and Review Technique (PERT) to Estimate Effort Software	
7	14.30 - 14.45	114	Cicik Nuraeni, Irmawati Carolina, Adi Supriyatna, Wina Widiati and Syamsul Bahri	Mobile-Assisted Language Learning (MALL): Students' Perception and Problems towards Mobile Learning in English Language	
8	08.30 - 08.45	93	Kurniawati Kurniawati, Muammar Khadapi, Dwiza Riana, Andi Arfian, Eva Rahmawati and Heriyanto	PUBLIC ACCEPTANCE OF PEDULILINDUNG I APPLICATION IN THE ACCELERATION OF CORONA VIRUS (COVID-19) HANDLING	(DAY 2) 07 AGUST 2020
9	08.45 - 09.00	94	Eka Rahmawati and Candra Agustina	Optimization of Decision Tree with PSO on Sharia Cooperative Customer Funding	
10	09.00 - 09.15	100	Andi Saryoko, Refangga Refangga, Riska Aryanti, Haryani Haryani, Sulaeman Hadi Sukmana and Samudi Samudi	Mobile Forensic In Whatsapp Messenger Use Mobiledit Forensics Express And National Institute Of Standards And Technology (NIST)	
11	09.15 - 09.30	111	Wisti Dwi Septiani, Sri Utami, Octa Pratama Putra, Noer Hikmah, Popon Handayani, dan Narti Narti	Designing of Agricultural Product e-Marketplace by using UCD method	
12	09.30 - 09.45	112	Wina Yusnaeni, Marlina Marlina, Ratih Yulia Hayuningtyas and Retno Sari	Comparison AHP-MABAC And Waspaas Methods For Supplier Recommendations	

13	09.45 - 10.00	91	Nissa Madaniyah Fadhilah, Siti Fauziah, Dwiza Riana, Andrian Eko Widodo, Agus Yulianto and Besus Maula Sulthon	Influence Of Overload Information About COVID-19 Pandemic On Internet For Psychological Illnesses And Behavioral Intentions To Continue Searching For Information
14	10.00 - 10.15	115	Nur Aini Rakhmawati and Hapsari Wulandari	Analysis of Legislative Candidate's Motivation and Target in General Election 2019 Using Author-Topic Model and Node2vec
15	10.15 - 10.30	121	Haryani Haryani, Titik Misriati, Rahmat Hidayat, Diah Puspitasari, Dinda Ayu Muthia and Instiyanti Elyana	Information Technology Governance in Al Kautsar Islamic Elementary School Using COBIT 5 Framework

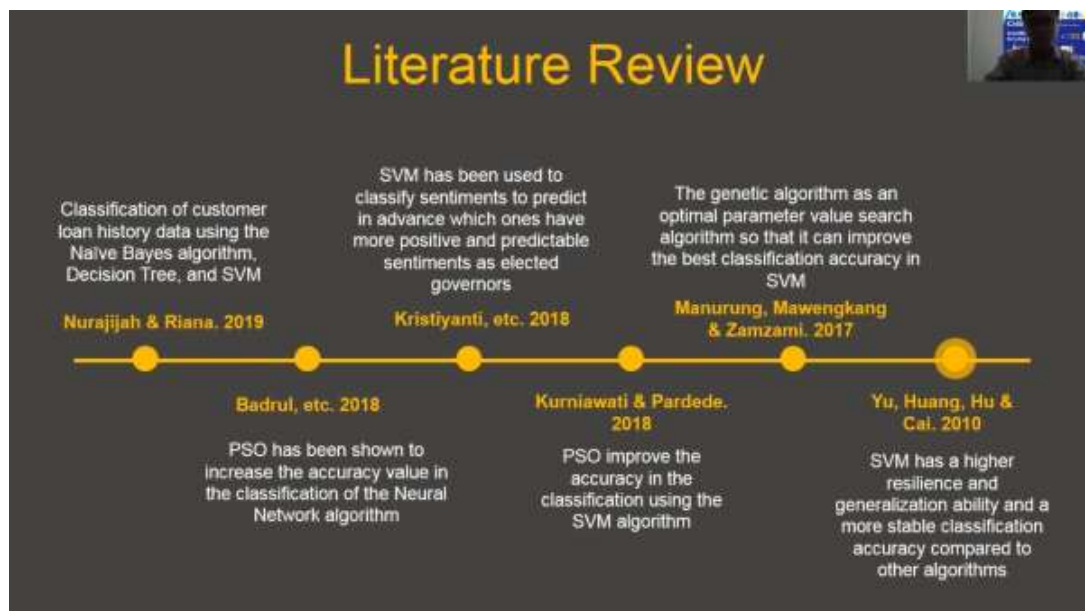


Figure 10. The Material delivered by One of the Participants in Room 3

LIST OF SPEAKERS

Room : 4

Category : Applied Science

Moderator : Miss Retno Rahayuningsih

Invite Link : <https://zoom.us/j/5633927839?pwd=OFhhVHhoRUkyVHF1Z3YyOGhORmFCZz09>

ID Meet : 563 392 7839

:

Password ICASID04

Durasi : 15 Minutes/ Team

Total Durasi : 225 Minutes

DAY 1, 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full Paper	DAY
1	13.00 - 13.15	123	Eko Haryadi, Dewi Yuliandari, Abdussomad Abdussomad, Diah Wijayanti, Mike Amelia, and Syafrianto Syafrianto	Maintaining The Continuity of The Company's Operation using the NIST Framework for Small and Medium Enterprises	(DAY 1) 06 AUGUST 2020
2	13.15 - 13.30	127	Panny Agustia Rahayuningsih, Reza Maulana, Windi Irmayani, Dedi Saputra and Deasy Purwaningti	Feature Dependent Naïve Bayes For Network Intrusion Detection System	
3	13.30 - 13.45	146	M Safii, Syahril Efendi, Muhammad Zarlis and Herman Mawengkang	Dynamic Model For Determining Disaster Evacuation Locations With Game Theory	
4	13.45 - 14.00	148	Dadang Priyanto, Muhammad Zarlis, Herman Mawengkang, Syahril Efendi	ANALYSIS OF SEISMIC HAZARD PREDICTION USING NON PARAMETRIC CONIC MULTIVARIATE ADAPTIVE REGRESSION SPLINES (C-MARS) METHODS	
5	14.00 - 14.15	149	Finna Windyani, P. H. Gunawan, Dede Tarwidi	Macroscopic Modelling of Pedestrian Flows Based on Conservation Law	
6	14.15 - 14.30	155	Dinar Ajeng Kristiyanti, Esty Purwaningsih, Ela Nurelasari, Ahmad Al Kaafi, Akhmad Hairul Umam	Implementation of neural network method for air quality forecasting in Jakarta region	

7	14.30 - 14.45	209	Ai Ilah Warnilah, Dini Silvi Purnia, Miftah Farid Adiwisastra, Herlan Sutisna, Ratningsih and Rian Ardianto	The Implementation of the MFEP (Multi Factor Evaluation Process) Method In Determining the Learning Model	(DAY 2) 07 AGUST 2020
8	08.30 - 08.45	168	Miftah Farid Adiwisastra, Yani Sri Mulyani, Tuti Alawiyah, Taufik Wibisono, Iqbal Dzulfikar Iskandar, and Dini Silvi Purnia	Implementation Of The Lab Rotation Model In Blended Learning Based On Student Perspectives	
9	08.45 - 09.00	169	Angga Ardiansyah, Sopian Aji, Dany Pratmanto, Sandra Jamu Kuryanti, Octa Pratama Putra, Cep Adiwihardja	The Analysis of Digital Provider Sentiment Of 'by.u' On Google Play Which Uses The Support Vector Machine (SVM) Method	
10	09.00 - 09.15	182	Achmad Baroqah Pohan , Sofian Wira Hadi, Syaifur Rahmatullah , Robi Aziz Zuama , Achmad Rifai , Deni Gunawan	Employee Performance Appraisal Using Decision Support System By AHP and TOPSIS Methods	
11	09.15 - 09.30	189	Tya Septiani Nurfauzia Koeswara, Yoseph Tajul Arifin, Asriyani Sagianto, Widarti, Sopiyan Dalis, Rizky Ade Safitri	Application of Simple Additive Weighting Method in the Selection of Achievement Employees at PT. Tata Makmur Sejahtera	
12	09.30 - 09.45	191	Rizal Amegia Saputra, Candra Agustina ,Diah Puspitasari, Kresna Ramanda, Warjiyono, Jamal Maulana Hudin, Lisnawanty, Karlana Indriani	Detecting Alzheimer's Disease by The Decision Tree Methods Based On Particle Swarm Optimization	
13	09.45 - 10.00	225	Marischa Elveny and Mahyuddin K M Nasution	Similarity Approach Based to Customer Behavior for Trade Business Metrics	



Figure 11. The Material delivered by One of the Participants in Room 4

LIST OF SPEAKERS

Room : 5

Category : Artificial Intelligence

Moderator : Mrs. Wiruma Titian Adi

Invite Link : <https://zoom.us/j/9321355544?pwd=STV2WmZKUE5NbUFyamdCM0lNRjMlQT09>

ID Meet : 932 135 5544

Password : ICAISD05

Durasi : 15 Minutes/ Team

Total Durasi : 225 Minutes

DAY 1, 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full Paper	DAY
1	13.00 - 13.15	14	Elly Muningsih, Hidayat Muhammad Nur, Fabriyan Fandi Dwi Imaniawan, Saifudin, Vembria Rose Handayani and Feri Endiarto	Comparative Analysis on Dimension Reduction Algorithm of Principal Component Analysis and Singular Value Decomposition for Clustering	(DAY 1) 06 AUGUST 2020
2	13.15 - 13.30	18	Indah Ariyati, Susy Rosyida, Kresna Ramanda, Verry Riyanto, Siti Faizah and Ridwansyah	Optimization Of The Decision Tree Algorithm Used Particle Swarm Optimization In The Selection Of Digital Payments	
3	13.30 - 13.45	32	Harsih Rianto, Amrin, Rudianto, Omar Pahlevi, Paramita Kusumawardhani and Seno Sudarmono Hadi	Determining the Eligibility of Providing Motorized Vehicle Loans by Using the Logistic Regression, Naive Bayes and Decision Tree (C4.5)	
4	13.45 - 14.00	42	Henderi, Ageng Setiani Rafika, Harco Leslie Hendric Spits Warnar and Meldi Anggara Saputra	An application of mask detector for prevent Covid-19 in public services area	
5	14.00 - 14.15	47	Sri Rahayu, Nurul Qhomariyah, Jajang Jaya Purnama, Dwiza Riana, Yuni Eka Achyani, and Fattya Ariani	Swietenia Mahagoni Wood Defects Segmentation Using YIQ Color Space and Thresholding	
6	14.15 - 14.30	68	Iqbal Dzulfikar Iskandar, Noor Cholis Basjaruddin, Deddy Supriadi, Ratningsih, Dini Silvi Purnia and Taufik Wibisono	POPULAR CONTENT PREDICTION BASED ON WEB VISITOR DATA WITH DATA MINING APPROACH	

7	14.30 - 14.45	69	Irfan Mahendra, Sulistianto Sw, Astriana Mulyani, Agus Wiyatno and Oki Rosanto	Assessing E-Commerce Success from a Millennial Perspective in Indonesia
8	08.30 - 08.45	75	Nia Nuraeni, Puji Astuti, Oky Irnawati, Ida Darwati and Danang Dwi Harmoko	High Accuracy in Forex Predictions Using the Neural Network Method Based on Particle Swarm Optimization
9	08.45 - 09.00	78	Angge Firizkiansah, Bambang Kriswantara, Dwiza Riana, Aprih Widayanto, Fajar Akbar and Eko Setia Budi	The Influence of "Check The Risk of Contracting Coronavirus" Application Quality from Alodokter on the Benefits Gained by Users, to get COVID-19 Early Detection
10	09.00 - 09.15	90	Ranu Agastya Nugraha, Dwi Andriyanto, Dwiza Riana and Siti Nur Khasanah	Analysis of Factors Affecting Quality of corona.jatengprov.go.id Website Towards User Satisfaction using Webqual 4.0 Method
11	09.15 - 09.30	96	Hermanto, Antonius Yadi Kuntoro, Taufik Asra, Eri Bayu Pratama, Lasman Effendi and Ridatu Ocanitra	GOJEK AND GRAB USER SENTIMENT ANALYSIS ON GOOGLE PLAY USING NAïVE BAYES ALGORITHM AND SUPPORT VECTOR MACHINE BASED SMOTE TECHNIQUE
12	09.30 - 09.45	97	Faruq Aziz, Irmawati Irmawati, Dwiza Riana, Joko Dwi Mulyanto, Dede Nurrahman and Muhamad Tabrani	Usability Evaluation of the Website Services Using the WEBUSE Method (A Case Study: covid19.go.id)
13	09.45 - 10.00	98	Eni Heni Hermaliani, Laela Kurniawati, Tuti Haryanti, Nisa Mutiah, Aan Kurniawan, dan Bahrun Said Renhoran	Data Mining Technique to Determine the Pattern of Fruits Sales & Supplies Using Apriori Algorithm
14	10.00 - 10.15	103	Titin Kristiana, Sukmawati Anggraeni Putri, Nurmalasari Nurmalasari, Rani Irma Handayani, Nita Merlina and Norma Yunita	Association rule implementation using algorithm apriori to analyze fishing pattern in Indonesia

(DAY 2) 07 AGUST 2020

15	10.15 - 10.30	107	Ilham Kurniawan, Abdussomad Abdussomad, Muhammad Faithullah Akbar, Dede Firmansyah Saepudin, Mochammad Syamsul Azis, dan Muhamad Tabrani	Improving The Effectiveness of Classification Using The Data Level Approach and Feature Selection Techniques in Online Shoppers Purchasing Intention Prediction
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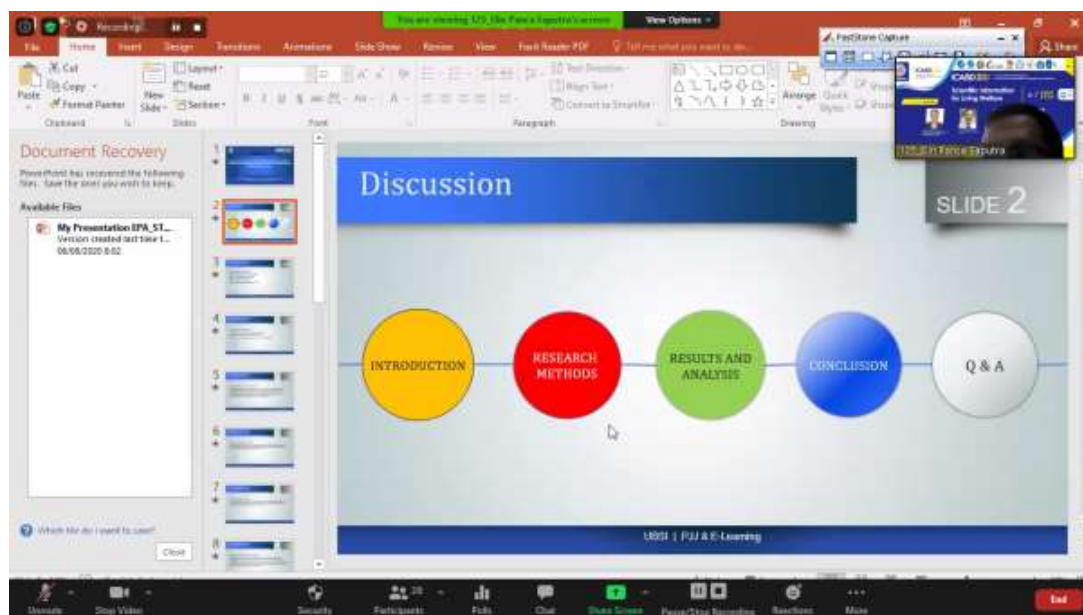


Figure 12. The Material delivered by One of the Participants in Room 5

LIST OF SPEAKERS

Room : 6
 Category : Artificial Intelligence
 Moderator : Miss Dwi Puji Hastuti

Invite Link : <https://zoom.us/j/2509617265?pwd=WS95QzRWOG85VGtXMEExd2lOcUIHdz09>
 ID Meet : 250 961 7265
 Password : ICAISD06

Durasi : 15 Minutes/ Team

Total Durasi : 225 Minutes

DAY 1, 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full Paper	DAY
1	13.00-13.15	124	Siti Raftiana Putri, Tien F. Kusumasari, and Muharman Lubis	The Effectiveness of Implementing Payment Gateway for Start-up Company for Transaction	(DAY 1) 06 AGUST 2020
2	13.15-13.30	125	Elin Panca Saputra, Supriatiningsih, Supriatiningsih, Indriyanti Indriyanti and Sugiono Sugiono	Prediction of Evaluation Result of E-learning Success Based on Student Activity Logs With Selection of Neural Network Attributes Base on PSO	
3	13.30-13.45	128	Indarti Indarti, Novita Indriyani, Arief Setya Budi, Dewi Laraswati, Wina Yusnaeni and Arif Hidayat	The Classification Of Monster And Williams Pear Varieties Using K-Means Clustering And K-Nearest Neighbor (KNN) Algorithm	
4	13.45-14.00	129	Reza Maulana, Panny Agustia Rahayuningsih, Windi Irmayani, Dedi Saputra and Wanty Eka Jayanti	Improved Accuracy of Sentiment Analysis Movie Review Using Support Vector Machine Based Information Gain	
5	14.00-14.15	130	Siti Masripah, Lila Dini Utami, Hilda Amalia, Dini Nurlaela, Muhamad Ryansyah and Lestari Yusuf	Comparison of Text Mining Classification Algorithms in Interbank Money Transfer Application	
6	14.15-14.30	133	Dedi Saputra, Weiskhy Steven Dharmawan, Mochamad Wahyudi, Windi Irmayani, Juniato Sidauruk and Martias Martias	Performance Comparison and Optimized Algorithm Classification	
7	14.30-14.45	134	Diah Puspitasari, Kresna Ramanda, Adi Supriyatna, Mochamad Wahyudi, Erma Delima Sikumbang and Sulaeman Hadi	Comparison of Data Mining Algorithms Using Artificial Neural Networks (ANN) and Naive Bayes for Pretern Birth Prediction	

			Sukmana		
8	08.30 -08.45	135	Diah Puspitasari, Mochamad Wahyudi, Muhammad Rizaldy, Acmad Nurhadi, Kresna Ramanda and Sumanto Sumanto	K-Means Algorithm For Clustering The Location of Accident-Prone on The Highway	(DAY 2) 07 AGUST 2020
9	08.45 - 09.00	137	Faqih Hamami, Iqbal Ahmad Dahlan	Implementation Face Recognition Attendance Monitoring System for Lab Surveillance with Hash Encryption	
10	09.00 - 09.15	143	Hikmatulloh, Dwiza Riana, Jamal Maulana Hudin, Susilawati, Dede Wintana and Sri Hadianti	Identification of monogeneans parasite using gray level co- occurrence matrix and artificial neural network	
11	09.15 - 09.30	147	Adhelinia Afenika, Putu Harry Gunawan and Dede Tarwidi	Classification of Road Surface Quality Based on SVM Method	
12	09.30 - 09.45	153	Dwi Andini Putri, Dinar Ajeng Kristiyanti, Elly Indrayuni, Acmad Nurhadi, Denda Rinaldi Hadinata	Comparison of Naive Bayes Algorithm and Support Vector Machine using PSO Feature Selection for Sentiment Analysis on E-Wallet Review	
13	09.45 - 10.00	156	R Aulianita, LA Utami, N Musyaffa, G Wijaya, A Mukhayaroh, A Yoraeni	Sentiment Analysis Review Of Smartphones With Artificial Intelligent Camera Technology Using Naive Bayes n-gram Character Selection	
14	10.00 - 10.15	157	Hilda Amalia ,Yunita , Achmad Baroqah Pohan, Ari Puspita, Ade Fitria Lestari	Determination Wart Treatment Method Using Data Mining Technique	
15	10.15- 10.30	226	Marischa Elveny and Rahmad Syah	Identification of Diabetic Retinopathy with Retinal Fundus Imagery Using Probabilistic Neural Network	



Figure 13. The Material delivered by One of the Participants in Room 6

LIST OF SPEAKERS

Room : 7
 Category : Artificial Intelligence
 Moderator : Mr. Octa Pratama Putra

Invite Link : <https://zoom.us/j/3913226231?pwd=bHJyWEZzbFBaNTNrRCtjU2RBVXhhZz09>
 ID Meet : 391 322 6231
 Password : ICAISD07

Durasi : 15 Minutes/ Team
 Total Durasi : 225 Minutes

DAY 1, 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full paper	DAY
1	13.00-13.15	207	Mahfut Mahfut	Identification and Detection Odontoglossum ringspot virus on Native Orchids Collection of Nurseries in Java, Indonesia	(DAY 1) 06 AGUST 2020
2	13.15-13.30	171	Haerul Fatah, Recha Abriana Anggraini, Deddy Supriadi, Melisa Winda Pertiwi, Ai Ilah Warnilah and Nurul Ichsan	Data mining for cryptocurrencies price prediction	
3	13.30-13.45	187	Elly Firasari, Nurul Khasanah, Umi Khultsum, Desiana Nur Kholifah, Gema Irhamdhika, Wiwiek Widyastuty	Comparation of K-Nearest Neighbor and Naive Bayes Algorithm for the Classification of the Poor in Recipients of Social Assistance	
4	13.45-14.00	194	Dinar Ajeng Kristiyanti, Dwi Andini Putri, Elly Indrayuni, Achmad Nurhadi, Akhmad Hairul Umam	E-Wallet Sentiment Analysis Using Naïve Bayes and Support Vector Machine Algorithm	
5	14.00-14.15	195	Tika Adilah M, Hendra Supendar, Rahayu Ningsih, Sri Muryani and Kusmayanti Solecha	Sentiment Analysis of Online Transportation Service using the Naïve Bayes Methods	
6	14.15-14.30	196	Rizal Amegia Saputra, Suharyanto Suharyanto, Sri Wasiyanti, Dede Firmansyah Saefudin, Adi Supriyatna and Agung Wibowo	Rice Leaf Disease Image Classifications Using KNN Based On GLCM Feature Extraction	

7	14.30-14.45	200	Tuti Alawiyah, Agung Baitul Hikmah , Wildan Wiguna , Mira Kusmira , Herlan Sutisna , and Bambang Kelana Simpony	Generation of Rectangular Matrix Key for Hill Cipher Algorithm Using Playfair Cipher	(DAY 2) 07 AGUST 2020
8	08.30-08.45	205	Husni Faqih, Warjiyono Warjiyono, Fiola Kuhon, Sopian Aji, Angga Ardiansyah and Fandhilah Fandhilah	An Analysis & Measurement of Website Quality Using WebQual 4.0 and Importance Performance Analysis (IPA) Method (A Case Study of Kemiriamba Village Brebes)	
9	08.45 - 09.00	163	Sriyadi, Maruloh, Mochamad Nandi Susila, Andriansah, Imam Nawawi, Meiva Eka Sri Sulistyawati, Sufi Alawiyah	Motorized Vehicle Security System With Master And Slave Key Models	
10	09.00 - 09.15	208	Mahfut Mahfut	Identification of Disease and Efforts to Protect Native Orchid Plants Against Bacteria Infection in Liwa Botanical Garden	
11	09.15 - 09.30	201	Yasinta Indrianti, Sasmoko, Nor Fadila Mohd Amin, Sucianna Ghadari Rabiha, Nugroho Juli Setiadi, Agustinus Dedy Handrimurtjahjo and Muktiono Waspodo	Entrepreneurial Mindfulness Based on Artificial Intelligence	
12	09.30 - 09.45	211	Hasanul Fahmi, Syahrul Fahri, Jijon Raphita Sagala, Yuda Perwira, Yessy F A Lubis, Nurjamiyah Nurjamiyah and Mufida Khairani	USING CERTAINTY FACTOR METHOD TO DETERMINE WORK COMMITMENT GENERATION Y	

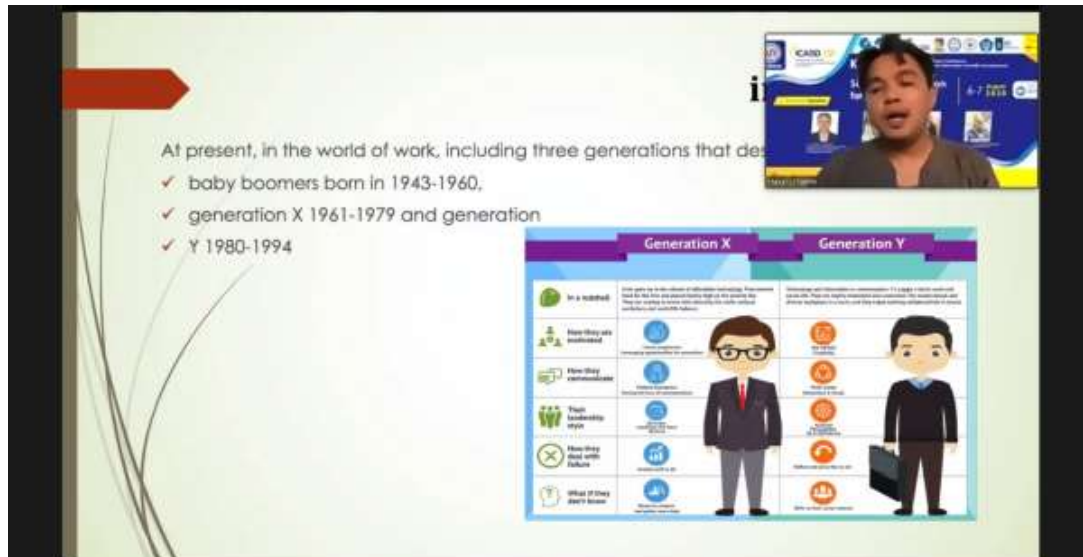


Figure 14. The Material delivered by One of the Participants in Room 7

LIST OF SPEAKERS

Room : 8
 Category : Applied Science, Artificial Intelligence, Management
 Moderator : Mrs. Yanti Rosalinah

Invite Link : <https://zoom.us/j/9196551907?pwd=MnVpbGRCYVB0cDNwTlE0ZS92elZtUT09>
 ID Meet : 919 655 1907
 Password : ICAISD08

Durasi : 15 Minutes/ Team

Total Durasi : 195 Minutes

DAY 1, 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full Paper	DAY
1	13.00-13.15	199	Unifah Rosyidi, Sasmoko, Yasinta Indrianti, Sonya Rapinta Manalu, Ramot Lubis, Jurike Moniaga and Abu Yazid Bin Abu Bakar	Designing Face Recognition Teacher Wellbeing Application that Optimizes Teacher's Quality Work Life	(DAY 1) 06 AGUST 2020
2	13.15-13.30	145	Paska Marto Hasugian, Harvei Desmon Hutahaeen, Bosker Sinaga, Sriadhi and Saronom Silaban	Villages Status Classification Analysis Involving K-Means Algorithm To Support Kementerian Desa Pembangunan Daerah Tertinggal dan Transmigrasi Work Programs	
3	13.30-13.45	212	Satoshi Iwakami, Masajiko Tamega, Masajide Sanada, Michiaki Mohri, Yoshitaka Iwakami, Shuji Jimbo and Masaji Watanabe	Study of underwater topography change with measurement and analysis	
4	13.45-14.00	213	Hengki Sihotang, Syahril Efendi, Elvyawati Zamzami and Herman Mawengkang	Design and Implementation of Rivest Shamir Adleman's (RSA) Cryptography Algorithm in Text File Data Security	
5	14.00-14.15	218	Arman Andrian, Sena Ramadana, Dwiza Riana, Nicodias Palasara, Albert Riyandi and Ibnu Rusdi	User satisfaction of covid19 kota Bogor website using webqual 4.0	
6	14.15-14.30	215	Burcu Gürbüz	Hybrid approximation for solutions of high-order integro-differential equations including variable delay	

7	14.30-14.45	177	Kanis Fatama Ferdushi, Md Kamrul Hossain, Anton Abdulbasah Kamil	Production Risk with Feasible Generalized Least Square	(DAY 2) 07 AGUST 2020
8	08.30-08.45	216	Husain Husain, Muhammad Zarlis, Herman Mawengkang and Syahril Efendi	CAUSAL LOOP DIAGRAM (CLD) MODEL IN PLANNING A SUSTAINABLE SMART SHARIA TOURISM	
9	08.45 - 09.00	217	Mochamad Wahyudi, Muhammad Zarlis, Herman Mawengkang and Syahril Efendi	A New Framework of Feature Selection Approach for Sentiment Analysis	
10	09.00 - 09.15	219	Siti Julianita Siregar, Muhammad Zarlis and Zakarias Situmorang	Application and Manual Encryption Process with The Combination Algorithm of One Time Pad and Vigenere Cipher	
11	09.15 - 09.30	220	Lise Pujiastuti, Mochamad Wahyudi and Solikhun Solikhun	Analysis of Perceptron Quantum Artificial Neural Networks to Classify the Feasibility of Prospective Debtors	
12	09.30 - 09.45	224	Herman Mawengkang and Sutarman	Generalized Reduced Gradient Approach for Solving Periodic Heterogeneous Vehicle Routing Problem with Side Constraints	
13	09.45 - 10.00	228	Sri Melvani Hardi and Farhan Pramuwidiantoro Surbakti	EXPERT SYSTEM FOR DETECTION GLAUCOMA DISEASE USING CERTAINTY FACTOR METHOD	
14	10.00 - 10.15	229	Sri Hardi and Arie Triwiyono	Expert System for Diagnosing Osteoarthritis with Fuzzy Tsukamoto Method.	
15	10.15-10.30	230	Sri Hardi, Muhammad Zarlis, Syahril Efendi and Maya Silvi Lydia	Taxonomy Genetic Algorithm For Implementation Partially Mapped Crossover In Travelling Salesman Problem	

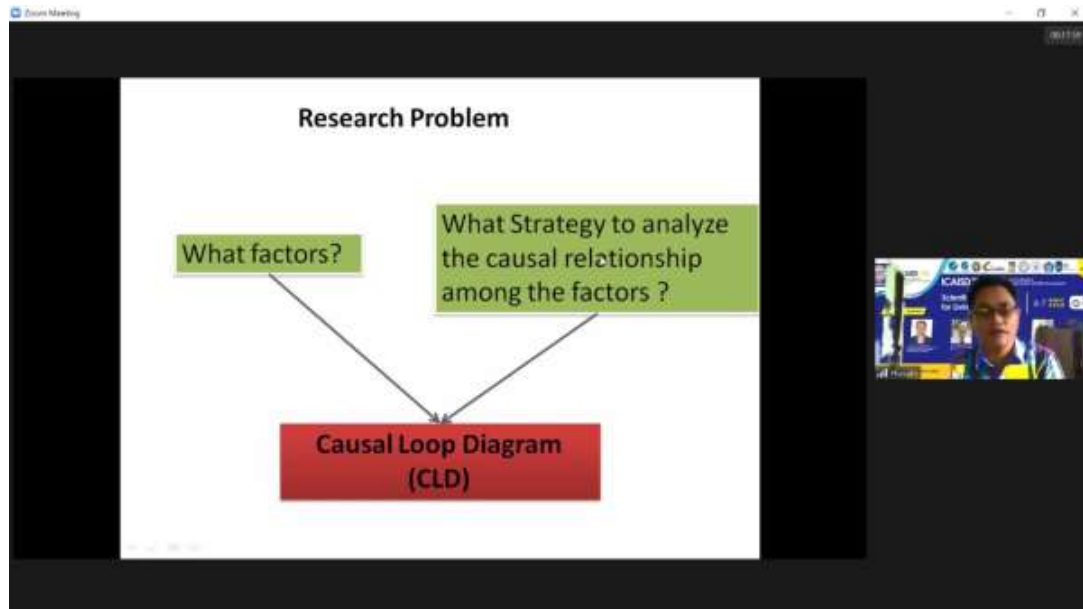


Figure 15. The Material delivered by One of the Participants in Room 8

LIST OF SPEAKERS

Room : 9
 Category : Management
 Moderator : Mr. Sayyid Khairunnas

Invite Link : <https://zoom.us/j/9288890197?pwd=MmdUUjhDdy9mWGJWSTF4eThXY1B6QT09>
 ID Meet : 928 889 0197
 Password : ICAISD09

Durasi : 15 Minutes/ Team
 Total Durasi : 225 Minutes

DAY 1, 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full Paper	DAY
1	13.00-13.15	20	Andi Martias, Agni Isador Harsapranata, Ahmad Rais Ruli, Rahma Wiyanti and Rahmat Novari	Analysis Of The Role Of Internal Auditors On Control Self Assesment Of Material Planning Strategic Business Unit Engine Maintenance	(DAY 1) 06 AGUST 2020
2	13.15-13.30	54	Sabil, Suhartono, Slamet Heri Winarno, Octa Pratama Putra and Dwiymatmoko Puji Widodo	The Effect of Work Environment, Competence, and Motivation on Employee's Performance in Electronic Companies in the Industrial District of Bekasi Regency Indonesia	
3	13.30-13.45	55	Arefin Islam Sourav, Ninyikiriza Deborah Lynn and Albertus Joko Santoso	Designing a conceptual framework of a smart city for sustainable development in Bangladesh	
4	13.45-14.00	61	Devita Widyaningtyas Yogianti, Emmita Devi Hari Putri, Citra Unik Mayasari, Atun Yulianto and M. Fathurrahman Nurul Hakim	Taking the Host Community's Control Back Towards Negative Impact of Voluntourism. Case Study in Japanese Language Course Bunka Kenkyukai, Yogyakarta Indonesia	
5	14.00-14.15	65	Vera Yanti, Sri Arfani, Eka Dyah Setyaningsih, Slamet Heri Winarno and Nur Hidayati	Competency Development Strategy for MSME Actor in The Use of ICTs in Rural and Urban Areas in An Effort Support Business Sustainability (Case Study of MSMEs in The Regency and City of Bandung Indonesia)	

6	14.1 5- 14.3 0	70	Wiwik Widiyanti, Vina Islami, Rani, Syahrir and Rosento	OVO E-Wallet as a Platform of Digital Payment in Indonesia: An Empirical Analysis	(DAY 2) 07 AGUST 2020
7	14.3 0- 14.4 5	82	Sri Harjunawati, Ida Hendarsih, Syahril Addin and Amas Sari Marthanti	EFFECT OF INFLATION, BI RATE AND NET EXPORT TO USD CENTRAL EXCHANGE RATE TO RUPIAHS IN BANK INDONESIA FOR 2005-2019	
7	08.3 0 - 08.4 5	102	Lela Nurlaela Wati, Ramdany Ramdany and Momon Momon	Benefits and Costs of Politically Connected Firms, Evidence in Indonesia	
8	08.4 5 - 09.0 0	105	Baiatun Nisa, Sulhizah Wulan Sari and Paramita Kusumawardhani	Improving English Speaking Skill through Slang Words in a Movie: the Practice of Mind-Mapping Strategy	
9	09.0 0 - 09.1 5	106	Ani Wijayanti, Amelda Pramezwary, Emmita Devi Hari Putri, Atun Yulianto, Jati Nurcahyo and Erlangga Brahmanto	Shopping Tourism Development Through Top Five Products In Yogyakarta City, Indonesia	
10	09.1 5 - 09.3 0	109	Latifah Latifah, Nurmalasari Nurmalasari, Sri Dewi Ayu Safitri and Taufik Baidawi	The Effect Of Macro Economy On Sukuk Requests In Indonesia	
11	09.3 0 - 09.4 5	113	Kurniawan Prambudi Utomo, Sinta Rukiastiandari, Isyana Emita, Faif Yusuf, Fahmi Kamal and Eneng Iviq Hairo Rahayu	Analysis of Effects on Debt Equity Ratio (DER) and Underwriter Reputation on Underpricing Phenomena in Companies Conducting Initial Public Offering (IPO) on the IDX	
12	09.4 5 - 10.0 0	116	Nurvi Oktiani, Haryani Haryani, Kartika Yuliantari, Taat Kuspriyono, Rani Kurniasari and Jimmi Jimmi	The Effect Promotion E-Commerce Toward Effectiveness Promotion By Using Attention, Interest, Desire and Action (AIDA) Methods For Adpers – Art Community Product	



Figure 16. The Material delivered by One of the Participants in Room 9

LIST OF SPEAKERS

Room : 10
 Category : Management & Applied Science
 Moderator : Mrs. Titi Dewi Rohati

Invite Link : <https://zoom.us/j/3856170963?pwd=Vm52WW1FRlhUa3dPVzhRRTV4L0F5UT09>
 ID Meet : 385 617 0963
 Password : ICAISD10

Durasi : 15 Minutes/ Team

Total Durasi : 195 Minutes

DAY 1, 06 AUGUST 2020

No.	Time	Id Easychair	Speakers	The Theme List of Full Paper	DAY
1	13.00-13.15	120	Popon Adawia, Ayu Azizah, Aprilia Puspasari, Dede Mustomi and Asep Asep	The Appropriate Calculation Cost of Goods Manufactured as Pricing Strategy for Small Sized Enterprises (SMEs)	(DAY 1) 06 AGUST 2020
2	13.15-13.30	138	Diana Tambunan, Sugeng Wahyudi, Harjum Muharam	Merger and Innovation to Improve Organization's Performance in Indonesia to Fight Industrial Revolution 4.0: Case study Merger Bank BTPN	
3	13.30-13.45	154	Ana Ramadhayanti, Pramelani, Devy Sofyanty ,Rini Martiwi	TThe Role of Team Creativity and Risk Management in Supports Startup Business Performance	
4	13.45-14.00	161	S Wardah, Taufik Baidawi	Development of Fuzzy Analytic Hierarchy Process(F-AHP) For The Selection Of Alternative New Product Development Ideas In Coconut Downstream Agroindustry	
5	14.00-14.15	162	Ana Ramadhayanti, Nurhidayati, Imelda Sari and Taat Kuspriyono	ELABORATION FACTORS OF SUCCESS IN THE APPLICATION OF COMMUNITY-BASED SOLID WASTE MANAGEMENT AND COMPOSTING TECHNOLOGY	

6	14.15-14.30	164	A R A Nalendra, R Rahayuningsih, Y Rosalinah, I Subroto, A I Wibowo, F Nelfianti	E-Learning for English for Business-Based Podcast: One of Learning Solutions Amid the Pandemic of COVID-19.
7	14.30-14.45	174	Celerina Dewi Hartati, Gustini Wijayanti, Hin Goan Gunawan, Yulie Neila Chandra	Chinese Identity in God Temple's Birthday Ceremony as a Form of Social Network
8	08.30-08.45	183	Eka Dyah Setyaningsih, Hartanti, Vera Agustina Yanti, Ratiyah, Sumanto	IMPLEMENTATION OF GOVERNMENT REGULATION NO.46 2013 AND PP NO.23 IN 2018 FOR SMALL MEDIUM ENTERPRISE BANDUNG REGENCY (CASE STUDY IN BANDUNG DISTRICT MSME)
9	08.45 - 09.00	198	Idah Yuniasih, Slamet Heri Winarno, Ida Zuniarti, and Sofyan Marwansyah	The Effect of Price, Product Quality and Customer Service Toward Customer Satisfaction on Online Buying at COVID-19 Pandemic
10	09.00 - 09.15	119	Heri Ispriyahadi and Raysa Trierdianto	ANALYSIS OF EFFICIENCY AND CHANGE OF PRODUCTIVITY IN THE INDONESIAN BANKING INDUSTRY USING DATA ENVELOPMENT ANALYSIS (DEA) AND MALMQUIST TOTAL FACTOR PRODUCTIVITY
11	09.15 - 09.30	118	Lela Nurlaela Wati, Heri Ispriyahadi, Khoirun Nisa, Mohamad Lutfi and Imam Suprpta	Financial Technology and Financial Inclusion on MSME: Mixed-Method Research Approach
12	09.30 - 09.45	142	Diah Pradiatiningtyas, Chriswardana Bayu Dewa, Lina Ayu Safitri and Sri Kiswati	The Effect of Satisfaction and Loyalty Towards Digital Payment System Users Among Generation Z in Yogyakarta Special Region.

(DAY 2) 07 AGUST 2020

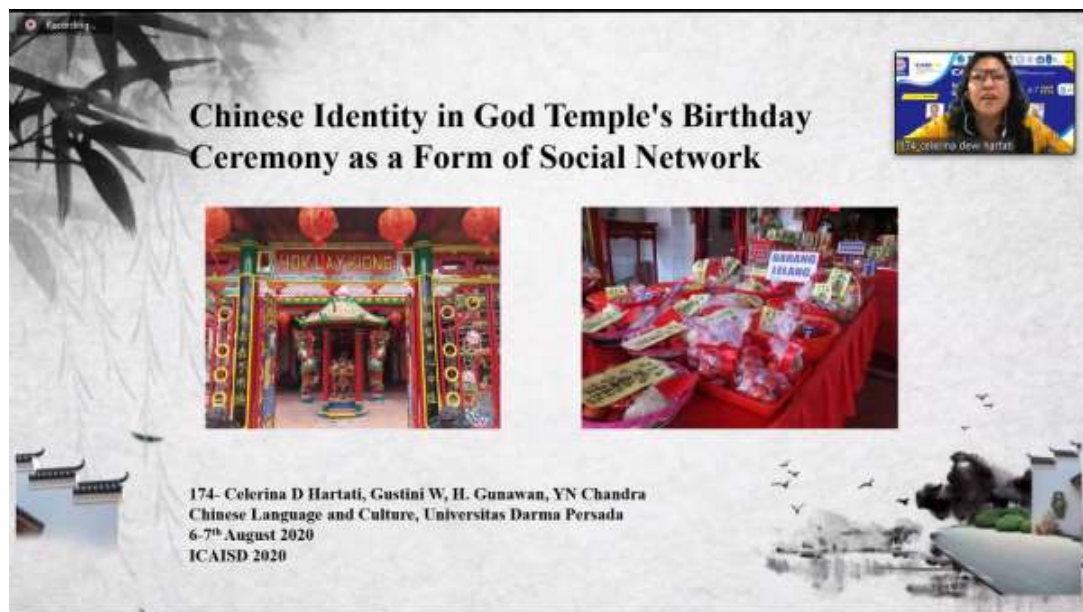


Figure 17. The Material delivered by One of the Participants in Room 10

- **The technology needed to deliver the meeting successfully.**

The Zoom Meeting application can support the ICAISD seminar to run smoothly due to travel restrictions by the Government due to the Covid-19 pandemic, so that meetings involving many people cannot be held. The zoom meeting application makes it easy to meet virtually without limiting certain areas so that the ICAISD seminar can run smoothly.

- **Any technical difficulties?**

Technical obstacles in the implementation of the ICAISD-2020 conference were usually problems from participants who cannot display the presentation file, but because participants have sent / uploaded the presentation file (ppt/ pptx) previously via the icaisd.info page, the committee can help display the presentation files of the seminar participants.

- **Any drawbacks in the delivery of the conference virtually, e.g. impact on the community?**

The positive side of the implementation of seminars is that participants and keynote speakers can deliver seminar material without holding a meeting because the Covid-19 pandemic will make it easier for participants far away from Bekasi, West Java, Indonesia. Therefore, that it can be efficient in terms of time and travel.

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Preface

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Editorial
International Conference on Advanced Information Scientific Development (ICAISD)
2020

Taufik Baidawi et al 2020 J. Phys.: Conf. Ser.

International Conference on Advanced Information Scientific Development (ICAISD) 2020 was organized by Universitas Bina Sarana Informatika.

It was held in BSI Convention Center, Bekasi, West Java, Indonesia, event held by the Institute of Research and Community Service (LPPM) of Universitas Bina Sarana Informatika on August 6-7, 2020. ICAISD 2020 is an International Conference for sharing knowledge and research in Computer and Information Science and providing a platform for researchers and practitioners from both academia as well as industry to meet and share the cutting-edge development of Computer and Information Science research. The theme that we raised in this international seminar is: "**Scientific Information for Living Welfare**".

The background of the theme selection is related to the rapid development of science and technology in the 21st Century that has contributed to change or renewal in various fields of life, including Applied Science, Management and Artificial Intelligence. This form of activity takes the form of scientific seminars or international conferences that are held virtually or webinars consisting of plenary lectures and oral presentations. The target participants are practitioners in the field of Information Technology and Management from academics (lecturers, researchers, and students) as well as practitioners and industry as a mean of socializing progress and development in the field of Information Technology and Management to increase their understanding and use for stakeholders on national and international scale. In addition, through this conference, the participants can develop research networks and collaboration with research partners in the field of information technology and management in Indonesia and researchers from abroad.

In connection with this theme, we present four speakers as the main speakers, namely Prof. Ir. Zainal Arifin Hasibuan, MLS, Ph.D (General Chair of APTIKOM Indonesia), Prof. Dr. Gerhard Willem Weber (Poznan University of Technology, Poland), Prof. Dr. Dorien De Tombe (Delft Technical University, the Netherlands), and Prof. Dr. Herman Mawengkang (Universitas Sumatera Utara).

The committee received 214 papers via easychair.org as well, with details of 145 papers received. Of the 145 papers 65 papers in Applied Science, 28 Papers in Management and 52 papers in Artificial Intelligence.

We organized this conference virtually as follows:

The location of the ICAISD-2020 Conference was virtually using the Zoom Meeting

Topic: UBSI ICAISD 2020 "SCIENTIFIC INFORMATION FOR LIVING WELFARE" (Part 1)

Time: Aug 6, 2020 09:00 AM Bangkok

Join Zoom Meeting

<https://zoom.us/j/7326877081?pwd=TVFOR1E2YIZEUFR5Q0h5NX1EK1pKQT09>



Meeting ID: 732 687 7081

Passcode: ICAISDBEST

Topic: UBSI ICAISD 2020 "SCIENTIFIC INFORMATION FOR LIVING WELFARE" (Part 3)

Time: Aug 7, 2020 10:30 AM Bangkok

Join Zoom Meeting

<https://zoom.us/j/7326877081?pwd=TVFOR1E2YIZEUFR5Q0h5NXIEK1pKQT09>

Meeting ID: 732 687 7081

Passcode: ICAISDBEST

While the off-line event specifically for the Committee was held at the BSI Convention Center, Bekasi, West Java, Indonesia. The implementation began with the delivery of the schedule by the MC and was opened by the chairman of Aptikom (Association of Computer and Informatics Higher Education) Prof. Zainal A. Hasibuan and continued with remarks from the Rector of Universitas Bina Sarana Informatika, Dr. Mochamad Wahyudi, MM., M.Kom, M.Pd.



Figure 1. Welcoming Remarks from Rector of Universitas Bina Sarana Informatika

Plenary of Each Speaker

The keynote speakers each delivered 45 minutes of seminar material through Zoom Meetings in their respective places. As in the following table:

ICAISD 2020

INTERNATIONAL CONFERENCE ON ADVANCED INFORMATION SCIENTIFIC DEVELOPMENT

" Scientific Information For Living Welfare "

**MEETING ID : 732 687
7081**

**PASSCODE :
ICAISDBEST**

JAKARTA , 6 AGUSTUS 2020

TIME					EVENT	Screen	FOH	DESCRIPTION
09.00.00	-	09.15.00	00.15.00	15'	Registration	Music Play		
09.15.00	-	09.18.00	00.03.00	3'	VIDEO OPENING			
09.18.00	-	09.23.00	00.05.00	5'	PRAY TO GOD Session			
09.18.00	-	09.28.00	00.10.00	10'	Insert MC 1 - Opening, Introducing, Present (Mr Agus & Mrs Cicih)	Live Cam	Mic MC	Welcome Remark
09.28.00	-	09.28.30	00.00.30	30 "	BUMPER			
09.28.30	-	09.29.00	00.00.30	30 "	Insert MC 2 - Sing Together , The National Anthem Of Indonesia			
09.29.00	-	09.31.00	00.02.00	2'	INDONESIA RAYA			
09.28.30	-	09.29.00	00.00.30	30 "	Insert MC 3 - Welcome Speech by Rector	Live Cam	Mic MC	
09.29.00	-	09.29.15	00.00.15	15 "	BUMPER IN			
09.29.15	-	09.41.15	00.12.00	12'	RECTOR SPEECH			
09.41.15	-	09.41.30	00.00.15	15 "	BUMPER OUT			
09.41.30	-	09.42.00	00.00.30	30 "	Insert MC 4 - Opening Remark by Head Of LLDIKTI 3 (APTIKOM *)	Live Cam	Mic MC	Audience sdh duduk kembali
09.42.00	-	09.42.15	00.00.15	15 "	BUMPER IN			
09.42.15	-	09.56.15	00.14.00	14'	APTIKOM + OPENING			

09.56.1 5	-	09.56.3 0	00.00.1 5	15 "	BUMPER OUT			
09.56.3 0	-	09.57.0 0	00.00.3 0	30 "	insert MC 5 - Invite Keynote Speech 1	Live Cam	Mic	
09.57.0 0	-	09.58.0 0	00.01.0 0	1'	BUMPER PROFILE KEYNOTE SPEECH 1 (Prof. Ir. Zainal Arifin Hasibuan, MLS., Ph.D)			
09.58.0 0	-	10.43.0 0	00.45.0 0	45'	Keynote Speech 1 (Prof. Ir. Zainal Arifin Hasibuan, MLS., Ph.D)	Live Cam	Mic Keynote	
10.43.0 0	-	10.43.1 5	00.00.1 5	15 "	BUMPER Out			
10.43.1 5	-	10.43.4 5	00.00.3 0	30 "	insert MC 6 - Invite Keynote Speech 2	Live Cam	Mic	
10.43.4 5	-	10.44.4 5	00.01.0 0	1'	BUMPER PROFILE KEYNOTE SPEECH 2 (Prof Dr Herman Mawengkang)			
10.44.4 5	-	11.29.4 5	00.45.0 0	45'	Keynote Speech 2 (Prof Dr Herman Mawengkang)	Live Cam	Mic Keynote	
11.29.4 5	-	11.59.4 5	00.30.0 0	15'	insert MC 7- Q&A Session 1			
11.59.4 5	-	12.59.4 5	01.00.0 0	60'	BREAK TIME			
12.59.4 5	-	13.00.0 0	00.00.1 5	15 "	BUMPER Out			
13.00.0 0	-	15.00.0 0	02.00.0 0	12 0'	PARALLEL SESSION (10 Classroom) Chapter 1			
15.00.0 0	-	15.00.1 5	00.00.1 5	15 "	BUMPER			
15.00.1 5	-	15.10.1 5	00.10.0 0	10'	Music Play			
15.10.1 5	-	15.10.4 5	00.00.3 0	30 "	insert MC 9 - Invite Keynote Speech 3	Live Cam	Mic	
15.10.4 5	-	15.11.4 5	00.01.0 0	1'	BUMPER PROFILE KEYNOTE SPEECH 3 (Prof Dr Dorlen De tombe)			
15.11.4 5	-	15.56.4 5	00.45.0 0	45'	Keynote Speech 3 (Prof Dr. Dorlen De Tombe)	Live Cam	Mic Keynote	
15.56.4 5	-	15.57.0 0	00.00.1 5	15 "	BUMPER out			
15.57.0 0	-	15.57.3 0	00.00.3 0	30 "	insert MC 10 - Invite Keynote Speech 4	Live Cam	Mic	
15.57.3 0	-	15.58.3 0	00.01.0 0	1'	BUMPER PROFILE KEYNOTE SPEECH 4 (Prof Gerhard W. Weber)			
15.58.3 0	-	16.43.3 0	00.45.0 0	45'	Keynote Speech 4 (Prof Gerhard W. Weber)	Live Cam	Mic Keynote	
16.43.3	-	16.43.4	00.00.1	15	BUMPER out			

0		5	5	"	
16.43.45	-	17.13.45	00.30.00	30'	insert MC 11- Q&A Session 2
17.13.45	-	17.14.00	00.00.15	15"	BUMPER Close



Figure 2. The material delivered by Keynote Speaker: Prof Zainal A. Hasibuan (Head of APTIKOM)



Figure 3. The Presentation of Keynote Speaker: Prof Zainal A. Hasibuan
(Head of APTIKOM)



Figure 4. The Material delivered by Keynote Speaker: Prof. Dr. Herman Mawengkang
(Universitas Sumatera Utara)



Figure 5. The Material delivered by Keynote Speaker: Prof. Dr. Dorien De Tombe

(Delft Technical University, The Netherlands)



Figure 6. The Material delivered by Keynote Speaker: Prof. Dr. Gerhard W. Weber (Poznan University of Technology, Poland)

The questions asked by the participants for the keynote speaker were presented in two ways:

1. Through the chat room zoom meeting addressed to the committee to be conveyed to the keynote speaker.
2. Ask directly through zoom using the unmute feature by informing the committee in advance with the raise hand. Direct submission of questions is limited to a maximum of 5 questions for each keynote speaker.

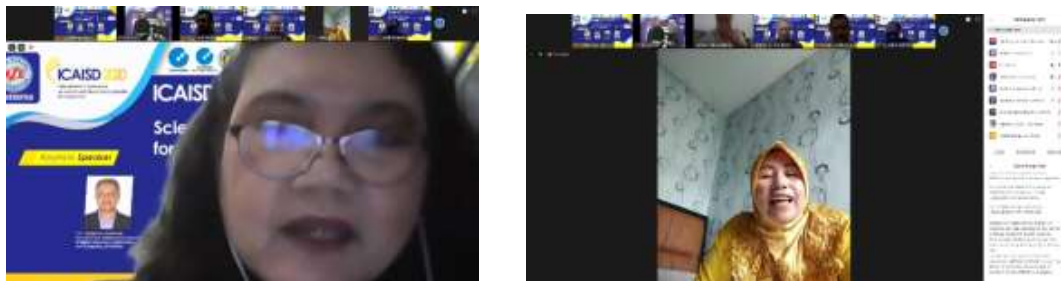


Figure 7. The Participants were delivering the Questions Addressed to Keynote speakers

The committee gave 15 minutes for each question session.

• **The participants: location and the overall attendance number expected.**

Of the 148 articles received, 145 article authors uploaded the presentation file and revision file from the author and then presented it on 6 and 7 August 2020. One of the authors of the article represented each article title in the presentation. All participants presented their research results for approximately 15 minutes per article which was divided into 10 rooms (online parallel sessions) which were assessed by the reviewer in each zoom room to determine the best presenter in each zoom room as attached to the schedule.

LIST OF SPEAKERS

Room : 1
 Category : Applied Science
 Moderator : Mr. Jimmi

Invite Link : <https://zoom.us/j/8244410030?pwd=QjRTV3RTNWtoM2UzMHM4a0xLOWVvaQT09>

ID Meet : 824 441 0030

Password : ICAISD01

Durasi : 15 Minutes/ Team

Total Durasi : 225 Minutes

Room : 2
 Category : Applied Science
 Moderator : Mrs. Rizky Mirani Desi Pratama

Invite Link : <https://zoom.us/j/6640421517?pwd=NW5VTzZ3bFFOZC8xMUlpWmdRSIRVUT09>

ID Meet : 664 042 1517

Password : ICAISD02

Durasi : 15 Minutes/ Team

Total Durasi : 225 Minutes

Room : 3
 Category : Applied Science
 Moderator : Mr. Ary Iswanto Wibowo

Invite Link	: https://zoom.us/j/3749365742?pwd=OXVwdlBiU1gwSUJzZjFncUF3NjgrQT09
ID Meet	: 374 936 5742
Password	: ICAISD03
Durasi	: 15 Minutes/ Team
Total Durasi	: 225 Minutes
Room	: 4
Category	: Applied Science
Moderator	: Miss Retno Rahayuningsih
Invite Link	: https://zoom.us/j/5633927839?pwd=OFhhVHhoRUkvVHF1Z3YvOGhORmFCZz09
ID Meet	: 563 392 7839
Password	: ICASID04
Durasi	: 15 Minutes/ Team
Total Durasi	: 225 Minutes
Room	: 5
Category	: Artificial Intelligence
Moderator	: Mrs. Wiruma Titian Adi
Invite Link	: https://zoom.us/j/9321355544?pwd=STV2WmZKUE5NbUFvamdCM0lNRjMrQT09
ID Meet	: 932 135 5544
Password	: ICAISD05
Durasi	: 15 Minutes/ Team
Total Durasi	: 225 Minutes
Room	: 6
Category	: Artificial Intelligence
Moderator	: Miss Dwi Puji Hastuti
Invite Link	: https://zoom.us/j/2509617265?pwd=WS95QzRWOG85VGtXMEExId2lOcUIHdz09
ID Meet	: 250 961 7265
Password	: ICAISD06
Durasi	: 15 Minutes/ Team
Total Durasi	: 225 Minutes

Room : 7
Category : Artificial Intelligence
Moderator : Mr. Octa Pratama Putra

Invite Link : <https://zoom.us/j/3913226231?pwd=bHJyWEZzbFBaNTNrRCtjU2RBVXhhZz09>

ID Meet : 391 322 6231

Password : ICAISD07

Durasi : 15 Minutes/ Team

Total Durasi : 225 Minutes

Room : 8
Category : Applied Science, Artificial Intelligence, Management
Moderator : Mrs. Yanti Rosalinah

Invite Link : <https://zoom.us/j/9196551907?pwd=MnVpbGRCYVB0cDNwTlE0ZS92elZtUT09>

ID Meet : 919 655 1907

Password : ICAISD08

Durasi : 15 Minutes/ Team

Total Durasi : 195 Minutes

Room : 9
Category : Management
Moderator : Mr. Sayyid Khairunnas

Invite Link : <https://zoom.us/j/9288890197?pwd=MmdUUjhDdy9mWGJWSTF4cThXYlB6QT09>

ID Meet : 928 889 0197

Password : ICAISD09

Durasi : 15 Minutes/ Team

Total Durasi : 225 Minutes

Room : 10
Category : Management & Applied Science
Moderator : Mrs. Titi Dewi Rohati

Invite Link : <https://zoom.us/j/3856170963?pwd=Vm52WWlFRlhUa3dPVzhRRTV4L0F5UT09>

ID Meet : 385 617 0963

Password : ICAISD10

Durasi : 15 Minutes/ Team

Total Durasi : 195 Minutes

The Zoom Meeting application can support the ICAISD seminar to run smoothly due to travel restrictions by the Government due to the Covid-19 pandemic, so that meetings involving many people cannot be held. The zoom meeting application makes it easy to meet virtually without limiting certain areas so that the ICAISD seminar can run smoothly.

Technical obstacles in the implementation of the ICAISD-2020 conference were usually problems from participants who cannot display the presentation file, but because participants have sent / uploaded the presentation file (ppt/ pptx) previously via the icaisd.info page, the committee can help display the presentation files of the seminar participants.

The positive side of the implementation of seminars is that participants and keynote speakers can deliver seminar material without holding a meeting because the Covid-19 pandemic will make it easier for participants far away from Bekasi, West Java, Indonesia. Therefore, that it can be efficient in terms of time and travel.

This conference can be held due to the assistance of various parties. For this reason, on this occasion, we would like to thank the Rector of Universitas Bina Sarana Informatika and staffs, the Dean, the Head of the Study Program, the Head of Technology Bureau, the Head of Communication Marketing and his staffs, Advisors, Program Committee Chairs, Executive Chairs, Chair of Committee, and Co-Hosts who have participated in this conference.

Our highest appreciation is also extended to all the Organizing Committee Chair who have worked hard for the success of this conference. We are aware that there are still many shortcomings in organizing this seminar in presenting events, administrative services, and limited facilities. For that, we apologize profusely. Through this opportunity, we invite conference participants to join again in the 2nd ICAISD conference in 2021 next year. Finally, I hope that all conference's participants who attend this conference will have many benefit and useful things from this conference.

Jakarta, August 27, 2020
Chairman,

Taufik Baidawi

PAPER • OPEN ACCESS

Sentiment Analysis Review Of Smartphones With Artificial Intelligent Camera Technology Using Naive Bayes and n-gram Character Selection

To cite this article: R Aulianita *et al* 2020 *J. Phys.: Conf. Ser.* **1641** 012076

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Sentiment Analysis Review Of Smartphones With Artificial Intelligent Camera Technology Using Naive Bayes and n-gram Character Selection

R Aulianita^{1*}, LA Utami², N Musyaffa³, G Wijaya⁴, A Mukhayaroh⁵,
A Yoraeni⁶

Sekolah Tinggi Manajemen Informatika dan Komputer Nusa Mandiri

E-mail: rizki.rzk@nusamandiri.ac.id

Abstract. Mobile has become a basic necessity at this time. Everyone certainly has a cellphone according to their daily needs. To capture connections and carry out various activities with just one hand. The object of this research is a review of smartphones that have the best artificial intelligent cameras. Data processing methods used in research using the Naïve Bayes algorithm. Naïve Bayes is known as one of the methods with the best classification accuracy results for text mining. The research objective is to facilitate customers who will buy a smartphone with the best AI camera without having to read product reviews. So that it can see based on the classification of positive text and label negative text classification. In this study, n-gram is used as a character selector to provide better accuracy results. Based on the results of research conducted, the accuracy of Naïve Bayes results is 72.00%, then Naïve Bayes with n-gram selection accuracy is N-gram = 2, 72.00% accuracy results, n-gram = 3, 75.00% accuracy results, and n-gram = 4 accuracy results 74.50%. In this study, carried out 10 times the experiment to measure the increased accuracy of the addition of n grams. Thus concluding that the application of the n-gram character can increase the accuracy of the Naïve Bayes algorithm.

1. Introduction

Nowadays technology is developing very fast. Some artificial intelligence (AI) technologies are widely embedded in smartphones output in 2017, such as facial recognition biometrics, augmented reality, machine learning, and so on. Apparently, AI trends in smartphones will continue to develop. The popularity of cameras is growing rapidly and is being implemented for digital cameras and smartphones [1], smartphone manufacturers finally competed to make artificial intelligence camera features for their products. Until now, Chinese smartphone manufacturers are competing to create cellphones which has AI especially on Smartphone cameras, electronics and technology manufacturers such as Huawei, Honor and Xiaomi created by manufacturers in China [2]. The large selection of smartphone products that offer artificial intelligence features makes the Camera so that makes the public make a review of the product smartphone on the market. Internet can provides a variety of text data that can be used become useful information to customers [3]. Sentiment analysis has become the focus of research for many researchers who take the field text mining research and focus to natural language processing and social network analysis [4.] The large effects and benefits of sentiment analysis



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cause research-based application and sentiment analysis to grow rapidly [5]. The methods most widely used in sentiment analysis are Naïve Bayes (NB), Support Vector Machine (SVM) and K-Nearest Neighbor (KNN) [6]. Naïve Bayes Classifier is the best method for the text classification algorithm to improve performance of the classification.

The advantage of Naïve Bayes is the Naïf-Bayes classification assumes that variable are independent. For example mobile features, camera, mobile, simcard, wifi. The Naïve Bayes Classifier assumes that there are no mobile features related to each other. It is assumed that there is no relationship between a particular event from a group with the presence or absence of other events. So Naïve Bayes has the best performance [7]. Naive Bayes is an approach to classify models based on assigned labels, the simplest and most successful technique for large-scale datasets [8].

Classification is done for two variables called aspects and sentiments. Explaining the system in the generative model, we can say that both variables affect the use of words in sentences. Therefore, the probability distribution of words depends on the value of each variable [9], the N-gram probabilistic model, which is a model used to predict the next possible word from the previous N-1 word [10] n-gram is a slice of the number of n characters in a string. N-gram is a method that is applied for word or character generation [11].

In this study, it was determined that data processing was performed using the Naïve Bayes Algorithm. The results of the Naïve Bayes accuracy are compared with n-gram characters. The hypothesis in this study is whether the character n-gram can affect the accuracy of the Naïve Bayes method. This study is to measure the increase accuracy based on n gram charter selections using Naïve Bayes method.

2. Related Work

2.1. Sentiment Analysis

Sentiment analysis or can be called mining opinion representing public studies of services, products, film services and so forth. This sentiment analysis can be used to consider decision making so that accurate decisions are made. Sentiment analysis is widely used for the benefit of text mining research. In a business industry, text mining is used to view reviews or opinions of each customer, which is useful for providing information for customers. This information is useful as a determinant in making business decisions [12].

The development of various social media platforms such as Facebook, Twitter, Instagram, allows anyone to write opinions or comments so quickly in a short time. So they can express opinions through text or emoticons. Text mining, is very important in taking the text to be processed into a right decision for business people [13].

2.2. Naïve Bayes

Naïve Bayes algorithm is used to take the steps to process the data to obtain the result of sentiment analysis. Naïve Bayes algorithm is a classification technique most commonly used for mining opinion [14]. When processing training data, Naïve Bayes produces accuracy, precision and recall, the results of that accuracy are used to analyze the sentiment of each review. Based on the results of previous studies, it is proven that Naïve Bayes works better, which is shown through the results of accuracy [15]. Naive-Bayes classification assumes that its features are not related to each other in general. To help identify objects, features can be defined as attributes.

2.3. N-gram Character Selection

N-gram is a set of words given in a paragraph and when counting n-grams is usually done by moving one word forward [16]. Additional preprocessing steps for the bag-of-words approach included the n-gram technique and term frequency-inverse document frequency vectorization [17]. in that study provides an increase in accuracy for the use of n grams [18].

3. Research Method

3.1. Propose Model

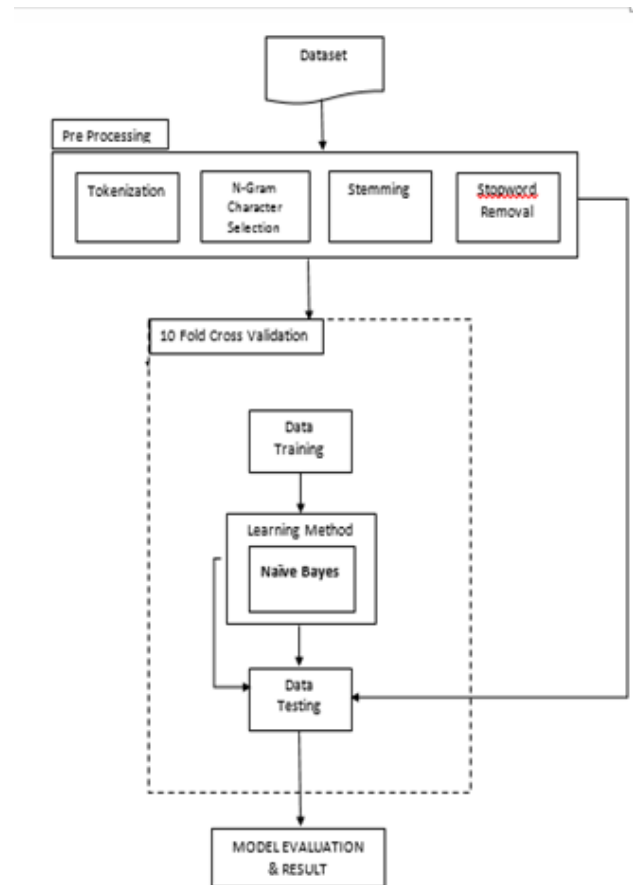


Figure 1. Propose Model Naïve Bayes with n-gram character selection.

The dataset obtained was 200 datasets. Each of the 100 positive AI camera reviews and 100 negative AI cameras. Based on the existing dataset, then pre-processing is done using Tokenization, N-Gram, Stemming and Stopword Removal. The validation used in this study is Cross Validation, exactly, 10 times the change in n grams to evaluate perform of accuracy n gram. Learning method used is Naïve Bayes, then the training data is done testing and ends on the result or Model Data Evaluation.

3.2. Research Methodology

(i) Data Collecting

The data used in this study is a set of smartphone product reviews with artificial intelligence camera technology collected from amazon.com with the keywords "Realme Camera AI", "Huawei Camera AI", and "Xiaomi Camera AI". Since March 2020, we have collected 200 smartphone product reviews under the Realme, Huawei and Xiaomi brands. Online reviews were posted by more than 2000 reviewers (customers) of 3 brands of mobile phones. Each review taken consists of the following information: 1) ID of the reviewer; 2) product ID; 3) ranking; 4) time of review; 5) location of reviewers; 6) review the text. After data

collection, all reviews are labeled manually. 200 reviews will be classified into two categories, 100 positive reviews and 100 negative reviews according to the three smartphone brands. The format used in the collection of .txt. We have converted the training and test data into English transliterated before we use to data training and testing.

(ii) Data Preprocessing

Before the dataset is ready for use, the data is preprocessing first so that the dataset is clean and ready to be used in the next process. The preprocessing data used for this dataset are:

(a) Tokenization

The process of cutting every word in the text and changing the letters in the document into lowercase letters. Only letters are accepted, special characters or punctuation will be removed.

(b) N-Gram Character n-gram is assumed to improve the performance of a Naïve Bayes algorithm. Based on the results of previous studies, n-gram can increase the accuracy value in the Naïve Bayes method. N-gram is a set of words given in a paragraph and when counting n-grams is usually done by moving one word forward (although in the process there is a process in which words are advanced a number of Y words).

(c) Stemming Search for the basic words of a word by removing the affix contained in the word.

(d) Stopwords Removal The process of eliminating words that often appear but do not have any influence in the extraction of sentiments of a review such as a timepiece, or question word.

(iii) Classification

The classification process is done by using an application and the method used is Naïve Bayes Classifier. There are two stages carried out in this process, the first stage is the training process (training) and the second stage is the testing process (testing).

(a) Training

The training phase will process the formation of classes and as a reference for how documents will be classified.

(b) Testing

This process is used to determine the accuracy of the model built in the training process, commonly used data called a test set to predict labels.

(iv) Evaluation

The process performance of the Naïve Bayes method will be assessed using k-fold cross validation, while the accuracy of the algorithm will be represented using the Confusion Matrix.

4. Experiment and Result

Sentiments that represent positive opinions in this study such as Satisfied, Good, Excellent, while to represent negative reviews are bad, not and no recommend. Validation used 10-fold cross validation for the Naïve Bayes design model with n-gram. The results of testing the data by the Naïve Bayes method are:

Table 1. Result Experiment Of Naïve Bayes.

	NB	AUC
Accuracy	72.00%	0.728.

Based on data processing carried out that the results of the accuracy of Naïve Bayes amounted to 72.00%.

In accordance with the hypothesis of researchers that by applying the character n-gram into the Naïve Bayes algorithm that can improve the performance of the method. It was proven when given n-gram = 2 that the resulting accuracy was 72.00%, then n-gram was added to n-gram = 3. The accuracy was 75.00% and n-gram = 4 showed an accuracy of 74.50%. As for the difference, it can be seen in the table below.

Table 2. NB Accuracy Value with n gram evaluation.

n-gram	Accuracy	AUC
1	72.00%	0.728.
2	72.00%	0.728.
3	75.00%	0.750.
4	74.50%	0.745.
5	70.50%	0.705.
6	75.00%	0.750.
7	74.00%	0.740.
8	73.00%	0.730.
9	73.50%	0.735.
10	75.50%	0.755.

Based on the above experiments, it was concluded that the n-gram character has the ability to be able to improve the accuracy of Naïve Bayes results, after testing it was proven that it can improve the accuracy and AUC results when adding n grams.

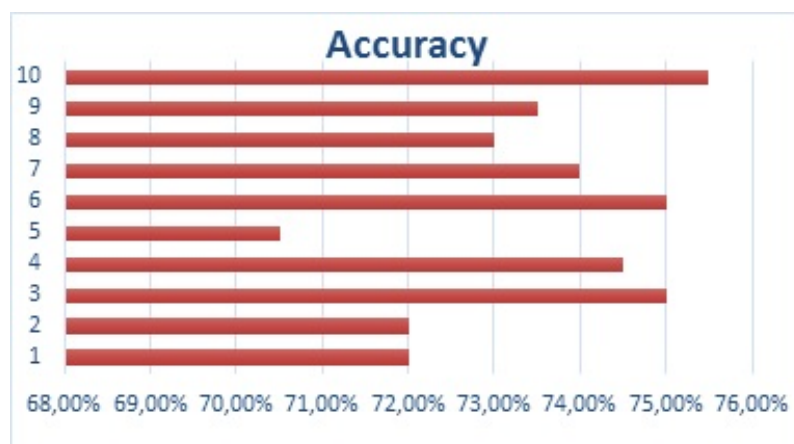


Figure 2. Accuracy NB + n gram evaluation.

5. Conclusion and Discussion

The results of testing with the Naïve Bayes model show that this method is one of the simplest methods used for text classification. This test uses a positive AI camera review and a negative

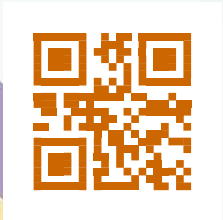
AI camera review. The accuracy of the test using the Naïve Bayes algorithm was 72.00%. The application of n-gram is proven to be able to improve the accuracy results by applying n-gram = 2 producing 72.00% accuracy, n-gram = 3 producing 75.00% and n-gram = 4 producing 74.50%. Based on the above data processing that n grams can affect the level of accuracy. This was proven after testing data training 10 times on a sentiment review camera with artificial intelligent technology able to increase the value of accuracy.

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