

LAPORAN PERJALANAN DINAS
The 6th International Conference on Computing and Applied Informatics
(ICCAI 2022)

“A New World of Research: Sustainable Research in a Digital World”

Selasa, 8 November 2022 | Medan, Indonesia (Virtual Conference)



Oleh: Munawar, PhD

Program Studi Magister Ilmu Komputer
Fakultas Ilmu Komputer
Universitas Esa Unggul - 2022

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Kata Pengantar

Puji syukur kami panjatkan kehadirat Allah SWT karena atas rahmat dan karunianya kami dapat menyelesaikan jurnal kami dan mempublikasikannya pada *The 6th International Conference on Computing and Applied Informatics (ICCAI 2022)*.

Kami ucapkan terimakasih kepada seluruh dosen dan staf akademika Universitas Esa Unggul, serta Yayasan Kemala Bangsa atas dukungan dan bantuannya sehingga kegiatan ini dapat terlaksana dengan baik.

Akhir kata, semoga kegiatan ini dapat memberikan pembelajaran dan manfaat bagi perkembangan kehidupan ilmiah di Fakultas Ilmu Komputer Universitas Esa Unggul pada khususnya, dan komunitas akademik rumpun ilmu komputer pada umumnya. Semoga laporan ini dapat bermanfaat bagi pihak-pihak yang memerlukannya.

Jakarta, 20 Desember 2022

Penulis
Munawar

Bab 1 Latar Belakang

Peristiwa pandemi baru-baru ini telah mengubah cara hidup secara signifikan. Kita dituntut untuk merangkul kenormalan baru dan standar baru dalam cara hidup. Untuk melakukan transformasi tersebut, riset berperan penting untuk memperkenalkan inovasi-inovasi baru guna mempercepat proses tersebut. Namun, merencanakan dan melakukan penelitian berkelanjutan dalam lingkungan yang terus berubah ini juga merupakan tantangan. Peneliti dituntut untuk menyesuaikan cara mereka untuk melakukan kolaborasi dan komunikasi. Selama transformasi ini, perlu adanya inovasi seperti konsep, metode, dan alat, untuk mempertahankan penelitian yang berkelanjutan.

Fakultas Ilmu Komputer dan Teknologi Informasi Universitas Sumatera Utara mengundang seluruh peneliti untuk mempresentasikan karyanya dalam *The 6th International Conference on Computing and Applied Informatics 2022*. Tujuannya adalah untuk menyediakan lingkungan di mana para peneliti yang berpartisipasi dapat berkomunikasi, berdiskusi, dan berkolaborasi dalam acara ini. Dalam konferensi ini, para peneliti diundang untuk berbagi penelitian dan inovasi mereka sekaligus pengalaman dan tantangan dalam mempertahankan penelitian yang berkelanjutan di lingkungan yang terus berubah.

ICCAI 2022 mengangkat tema “*A New World of Research: Sustainable Research in a Digital World*”. Pada kesempatan ini, saya turut berpartisipasi sebagai penulis artikel tentang teknik penambangan teks dalam implementasi UU Cipta Kerja terkait jaminan produk halal dan UU jaminan produk halal No 33/2014.

BAB 2 Pelaksanaan Kegiatan

Kegiatan *The 6th International Conference on Computing and Applied Informatics (ICCAI 2022)*

diselenggarakan pada tanggal 8 November 2022 melalui Zoom meeting. Kegiatan ini dimulai dengan sambutan dari general chair ICCAI 2022, wakil rektor Universitas Sumatera Utara (USU) dan Dekan Fakultas dan Teknologi Informasi USU.

The screenshot shows the homepage of the International Conference on Computing and Applied Informatics 2022 (ICCAI 2022). At the top, it displays the date "11/8/22, 8:22 PM" and the location "International Conference on Computing and Applied Informatics 2022". Below this is the conference logo featuring a network of interconnected nodes in green and yellow. The main title "The 6th International Conference on Computing and Applied Informatics" and the acronym "ICCAI 2022" are prominently displayed. The location is listed as "Medan, Indonesia" and the date as "Tuesday, 8th November 2022". A sidebar on the right contains links for "HOME", "REGISTER", "USER HOME", "CALL FOR PAPER", "REGISTRATION FEE", and "ICCAI 2016-2018". The footer of the page includes the theme "Theme: 'A New World of Research: Sustainable Research in a Digital World'" and a paragraph about the impact of the pandemic on research.

Halaman Utama ICCAI 2022

Kegiatan ini diisi oleh dua narasumber utama: 1) Johannes C Cronje -- Professor of Digital Teaching and Learning Department of Information Technology Cape Peninsula University of Technology, Republic of South Africa 2) Kenji Suzuki -- Professor of Biomedical Artificial Intelligence BioMedical Artificial Intelligence Research Unit Tokyo Institute of Technology, Japan.

Kegiatan ini mempresentasikan 73 paper dari 7 negara dengan rincian acara dan panitia sebagai berikut:

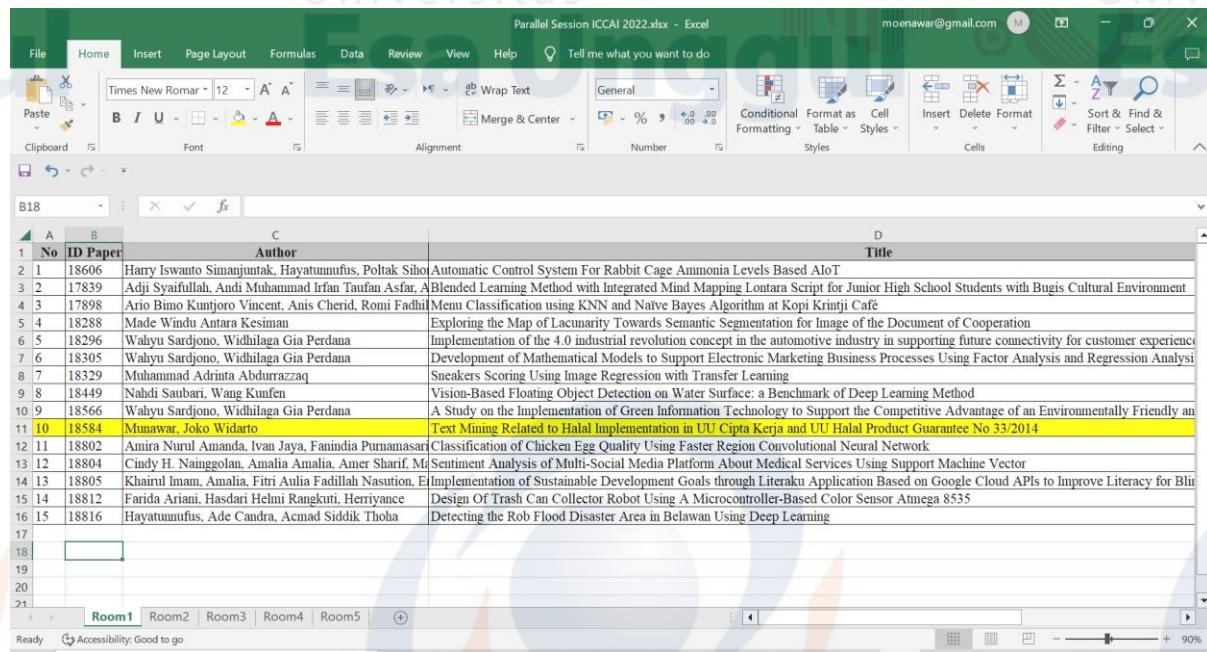
Conference Program Schedule

Tuesday, 08th of November 2022

TIME	EVENT	PIC
08.00 AM – 08.30 AM	1. Technical Preparation 2. Participants join in Zoom Webinar	Committee
08.30 AM – 08.40 AM	Traditional Dance	Committee
08.40 AM – 09.00 AM	Introduction to Sumatera Utara, Medan, and Universitas Sumatera Utara	Committee
09.00 AM - 09.10 AM	Opening Ceremony: 1. The Singing of the National Anthem "Indonesia Raya" 2. Opening Prayer	Committee
<i>Introduction to the International Conference on Computing and Applied Informatics</i>		
09.20 AM – 09.30 AM	Welcoming speech of the General Chair of ICCAI	Jos Timanta Tarigan, S.Kom., M.Sc
09.30 AM - 09.40 AM	Welcoming speech of Rector of Universitas Sumatera Utara	Dr. Muryanto Amin, S.Sos, M.Si
09.40 AM – 09.50 AM	Welcoming speech of the Dean of the Faculty of Computer Science and Information Technology	Dr. Maya Silvi Lydia, B.Sc, M.Sc
<i>Introduction to the Faculty of Computer Science and Information Technology</i>		
10.00 AM – 10.45 AM	Keynote speech by: Kenji Suzuki Professor, Biomedical Artificial Intelligence BioMedical Artificial Intelligence Research Unit Tokyo Institute of Technology, Japan	Committee
10.45 AM – 11.30 AM	Keynote speech by: Johannes C Cronjé Professor, Digital Teaching and Learning Department of Information Technology Cape Peninsula University of Technology, Republic of South Africa	Committee
11.30 AM – 01.00 PM	Break	
01.00 PM - 02.45 PM	Parallel Session	Committee
02.45 PM – 03.15 PM	Closing Ceremony	Committee

BAB 3 Hasil Kegiatan

Artikel saya dengan judul “Text Mining Related Halal Implementation in UU Cipta Kerja and UU Halal Product Guarantee No 33/2014” mendapatkan jadwal parallel session Sesi 2 di Room 1 sebagai berikut.



No	ID Paper	Author	Title
2	18606	Harry Iswanto Simanjuntak, Hayatunufus, Poltak Sihombing	Automatic Control System For Rabbit Cage Ammonia Levels Based AloT
3	2	Adj Syaifulah, Andi Muhammad Irfan Taufan Asfar, Aulia Amalia	Blended Learning Method with Integrated Mind Mapping Lontara Script for Junior High School Students with Bugis Cultural Environment
4	3	Ario Bimo Kuntjoro Vincent, Anis Cherid, Romi Fadillah	Menu Classification using KNN and Naive Bayes Algorithm at Kopi Kintji Café
5	4	Made Windu Antara Kesiman	Exploring the Map of Lacunarity Towards Semantic Segmentation for Image of the Document of Cooperation
6	5	Waluyo Sardjono, Widilaga Gia Perdana	Implementation of the 4.0 industrial revolution concept in the automotive industry in supporting future connectivity for customer experience
7	6	Waluyo Sardjono, Widilaga Gia Perdana	Development of Mathematical Models to Support Electronic Marketing Business Processes Using Factor Analysis and Regression Analysis
8	7	Muhammad Adrianta Abdurazzaq	Sneakers Scoring Using Image Regression with Transfer Learning
9	8	Nahdi Saubari, Wang Kunfen	Vision-Based Floating Object Detection on Water Surface: a Benchmark of Deep Learning Method
10	9	Waluyo Sardjono, Widilaga Gia Perdana	A Study on the Implementation of Green Information Technology to Support the Competitive Advantage of an Environmentally Friendly and Sustainable Development
11	10	Munawar, Joko Widarto	Text Mining Related to Halal Implementation in UU Cipta Kerja and UU Halal Product Guarantee No 33/2014
12	11	Amira Nurul Amanda, Ivan Jaya, Fanindia Purnamasari	Classification of Chicken Egg Quality Using Faster Region Convolutional Neural Network
13	12	Cindy H. Nainggolan, Analia Amalia, Amer Sharif, Mulyati	Sentiment Analysis of Multi-Social Media Platform About Medical Services Using Support Machine Vector
14	13	Khairul Imam, Analia, Fitri Aulia Fadillah Nasution	Implementation of Sustainable Development Goals through Literaku Application Based on Google Cloud APIs to Improve Literacy for Blended Learning
15	14	Farida Ariani, Hasdari Helmi Rangkuti, Herriyance	Design Of Trash Can Collector Robot Using A Microcontroller-Based Color Sensor Atmega 8535
16	15	Hayatunufus, Ade Candra, Acmad Siddik Thoha	Detecting the Rob Flood Disaster Area in Belawan Using Deep Learning

Setiap presenter diberikan waktu 10 menit presentasi dan 5 menit tanya jawab. Didiskusikan juga dalam sesi presentasi kami tentang bagaimana tindak lanjut dari hasil penelitian tersebut.

Lampiran I – Sertifikat Kegiatan

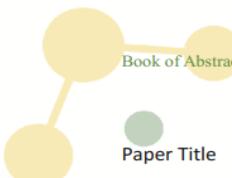


Lampiran II – Buku Abstrak



Cover Buku Program
Esa Unggul

Abstrak



Book of Abstracts – The 6th International Conference on Computing and Applied Informatics 2022

Paper Title

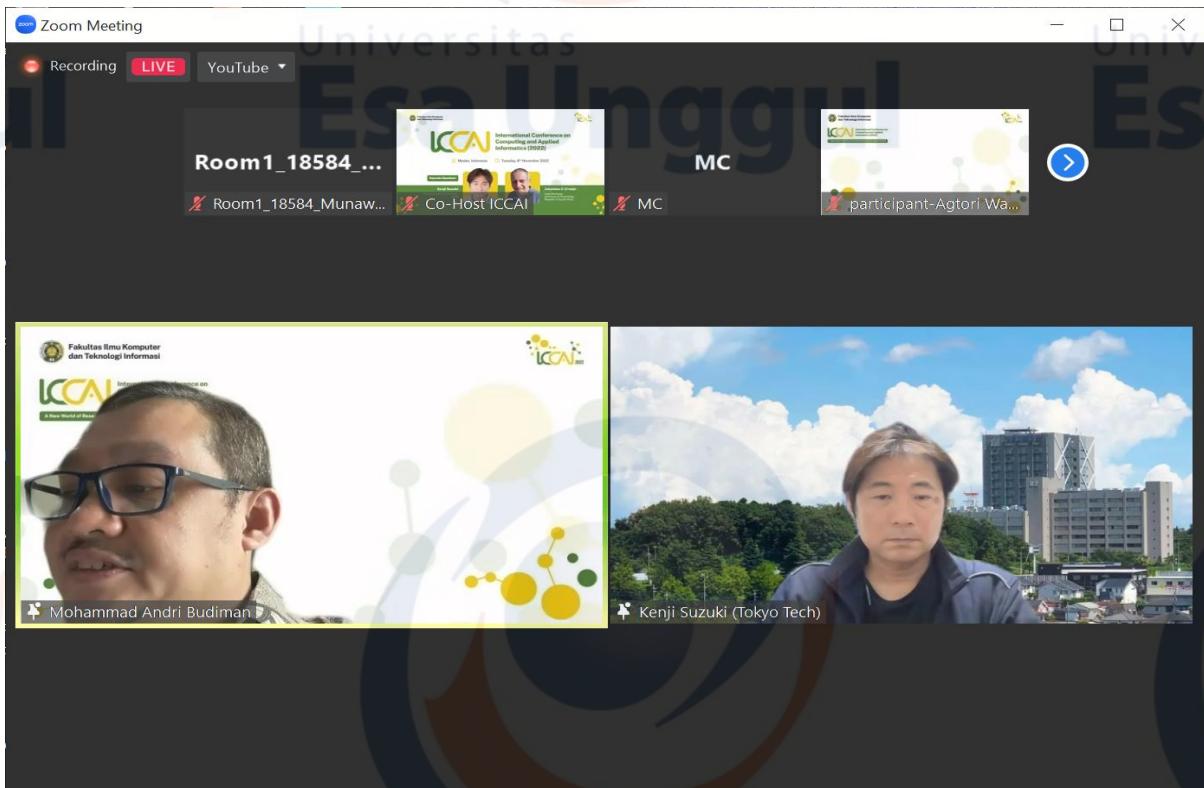
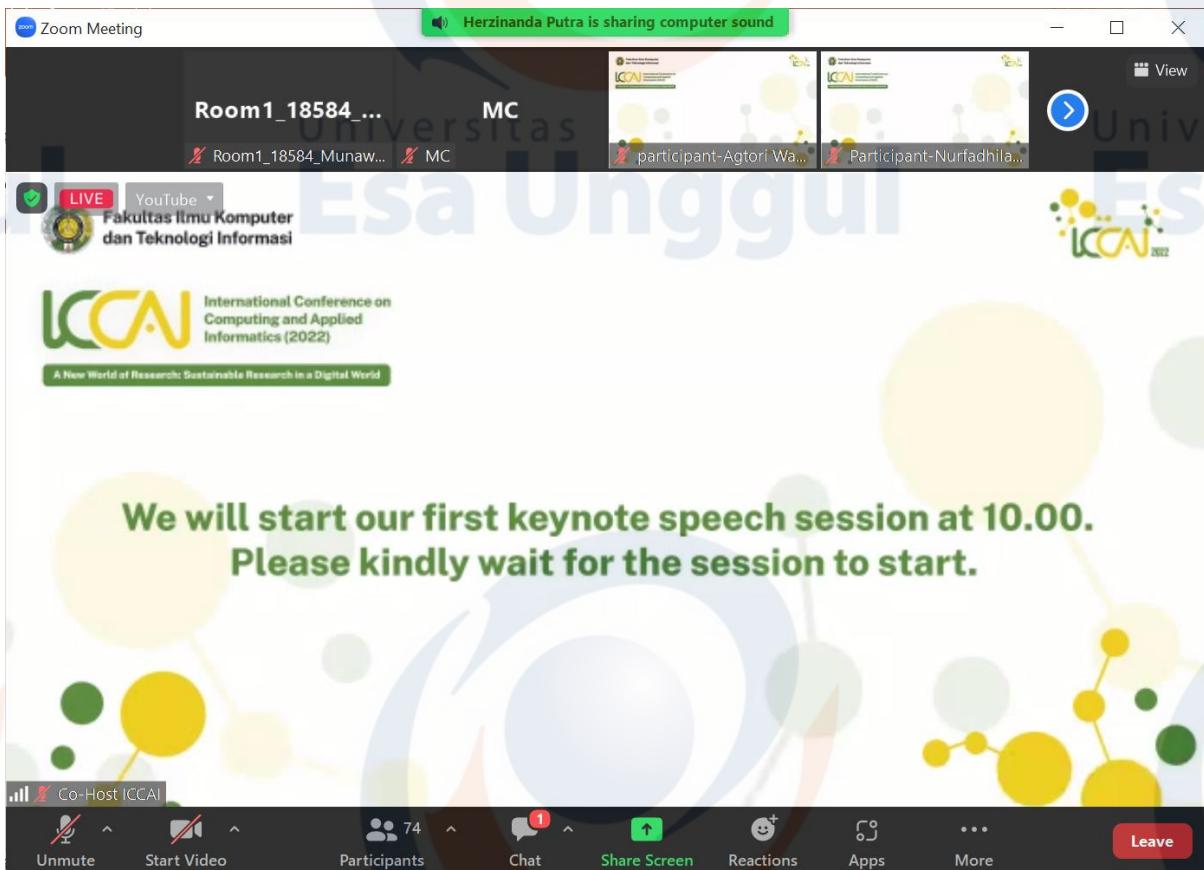
Author(s) and Affiliation(s)

Text Mining Related to Halal Implementation in
UU Cipta Kerja and UU Halal Product Guarantee
No 33/2014

Munawar - *Esa Unggul University*
Joko Widarto - *Esa Unggul University*

This study aims to create a sentiment analysis model for the Halal Product Guarantee Act (JPH) and the Job Creation Law (UU Cipta Kerja) related to JPH to help facilitate content analysis of existing legislation. The automated sentiment analysis process uses a deep learning approach with the LSTM (Long Short Term Memory) algorithm. The results show that the content of the JPH Law and the UU Cipta Kerja related to JPH contains negative (44.5%), positive (45.0%), and neutral (10.5%) content and is dominated by the words halal certificates, laws, halal products, and BPJPH. The results of the LSTM model test show accuracy in the range of 75% and epoch in the field of 80.

Lampiran III - Foto kegiatan Virtual Conference ICCAI 2022



Zoom Meeting You are viewing Johannes Cronje (He/His/Him)'s screen View Options

	People	Purpose	Politics	Computer systems
Connectedness	Digital connections are permanent. Physical connections only occur when people deliberately come together.	Digital connections may have a purpose to replace physical contact altogether.	Different rules may apply to digital groups than to physical groups.	Stability, ease of use and cost remain the drivers for digital communication.
Heterogeneity	Because they are not geographically bound virtual communities can be much heterogeneous than physical groups.	Having the same purpose may reduce the heterogeneity in groups, both virtual and physical.	Rules are required to regulate the power struggles that come about in heterogeneous groups.	Virtual groups are increasingly becoming platform-independent and able to run over different technologies.
Multiplicity	People belong to many more virtual groups than physical groups.	Some virtual groups have a purpose of their own that requires no physical contact.	Multiple groups develop to support or disrupt multiple instances of power.	The multiple operating systems on which WhatsApp runs means that a high level of interoperability needs to be designed into computer systems and high levels of standardisation is required.
Adorability/rupture	It is easy for sub-groups to break off from the main group.	Sub groups break off from the main group either to pursue sub-objectives of the main group, or to	Groups may easily break off from a main group to submit powerful figures deemed bullies.	The technological ease with which groups can form, either by invitation or by join link allows rapid group

Unmute Start Video Participants Chat Share Screen Reactions Apps More Leave

Lampiran IV – Invoice dan Bukti Pembayaran

From: BNI eCollection
Sent: 04 November 2022 11:00
To: moenawar@gmail.com
Subject: Rincian Nomor VA 9896070712518584



Jakarta, 04 November 2022

Kepada Yth. Munawar Munawar,
Dear Munawar Munawar,

Berikut kami sampaikan tagihan Anda pada **Universitas Sumatera Utara (USU)** dengan rincian sebagai berikut:

This is to confirm your billing on Universitas Sumatera Utara (USU) with detailed info:

Nomor VA : 9896070712518584
VA Number

Kode Tagihan : 98960707125185840001
Billing ID

Nama : Munawar Munawar
Name

Surel : moenawar@gmail.com
Email

Total Tagihan : IDR 2.000.000
Billed Amount

Deskripsi : International Conference on Computing and Applied Informatics
Description 2022; Local Presenter - Regular;#1

Tanggal Jatuh Tempo : 11 Nov 2022 11:00:39
Due Date

Silahkan lakukan pembayaran menggunakan Nomor VA 9896070712518584 melalui channel BNI atau Bank lain sebelum tanggal kadaluarsa di atas

Please complete the transaction to VA number 9896070712518584 via BNI channels or other banks before due date

From: BNI eCollection
Sent: 04 November 2022 13:53
To: moenawar@gmail.com
Subject: Transaksi Nomor VA 9896070712518584



Jakarta, 04 November 2022

Kepada Yth. Munawar Munawar,

Dear Munawar Munawar,

Pembayaran telah dilakukan pada tagihan dengan rincian sebagai berikut:

Payment has been made with detailed info:

Nomor VA <i>VA Number</i>	:	9896070712518584
Kode Tagihan <i>Billing ID</i>	:	98960707125185840001
Nama <i>Name</i>	:	Munawar Munawar
Surel <i>Email</i>	:	moenawar@gmail.com
Total Tagihan <i>Billed Amount</i>	:	IDR 2.000.000
Nominal Pembayaran <i>Paid Amount</i>	:	IDR 2.000.000
Deskripsi <i>Description</i>	:	International Conference on Computing and Applied Informatics 2022; Local Presenter - Regular;#1
Tanggal Pembayaran <i>Payment Date</i>	:	04 Nov 2022 13:53:34
Nomor Jurnal <i>Journal Number</i>	:	120125