



**InCoSSE 2023**

The 1<sup>st</sup> International Conference on Sustainable and  
Smart Engineering (INCOSSE 2023)

## **PROGRAM BOOK**

Jakarta, 9 November 2023

Faculty of Engineering

Bina Nusantara University



# The 1<sup>th</sup> International Conference on Sustainable and Smart Engineering (InCoSSE) 2023

Jakarta, 9 November 2023 (Virtual Conference)

Secretariat: Faculty of Engineering, BINUS University

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Keynote Speaker Prof. Ashutosh Kumar Singh Ph. D., SMIEEE, MIET, CEng-UK

Keynote Speaker Assoc. Prof. Deepika Saxena Ph.D.

Conference Schedule

Organizing Committee



## WELCOMING REMARKS

### Rector BINUS University



Ladies and gentlemen, professors, keynote speakers:

- **Prof Ashutosh Kumar Singh PhD**, from Department of Computer Applications, National Institute of Technology, Kurukshetra, Haryana, India
- **Associate Prof Deepika Saxena PhD**, from Department of Computer Science and Engineering, The University of Aizu, Fukushima, Japan
- As well as Binusian Leaders, authors, presenters, and all respected BINUSIANS

Good morning!

It is my honor, on behalf of BINUS UNIVERSITY, to extend a warm welcome to each and every one of you as we gather here for the 1st International Conference on Smart and Sustainable Engineering Solutions (InCoSSE 2023).

The theme for InCoSSE 2023 is "Technological Innovations in Intelligent Systems and Industrial Sustainability," speaks to the heart of the challenges we face in the modern world. It is aligned with BINUS UNIVERSITY's vision: "a World-class university, fostering and empowering society in building and serving the nation". We acknowledge the importance of addressing real-life problems with sustainable and intelligent engineering solutions.

In this conference, we have brought together experts and innovators who will showcase their research and findings in the fields of smart computing and communication, smart architecture, and smart industry. These areas are very important in shaping the future of technology and industrial development while ensuring sustainability remains at its core.

Today's discussions are an opportunity to gain deep insights, engage in knowledge exchange, and foster collaborative efforts to address complex issues that require ingenious engineering solutions. I encourage you all to actively participate and share your knowledge and expertise, as it is through these interactions will allow us to collectively develop our understanding and application of smart and sustainable engineering principles.

In conclusion, I wish everyone a productive day filled with fruitful discussions, significant networking, and a pleasant conference experience. Let's work together to build a brighter, more sustainable future.

Thank you for being a part of InCoSSE 2023.

Jakarta, 9 November 2023

**Dr. Nelly, S.Kom., M.M., CSCA**  
Rector BINUS University



## WELCOMING REMARKS

### Vice Rector for Research and Technology Transfer



To the honorable,

- Prof Ashutosh Kumar Singh PhD, from Department of Computer Applications, National Institute of Technology, Kurukshetra, Haryana, India
- Associate Prof Deepika Saxena PhD, from Department of Computer Science and Engineering, The University of Aizu, Fukushima, Japan,

distinguished guests, and fellow participants,

I'm truly honored to welcome you all at the International Conference on Sustainable and Smart Engineering / INCOSSE with the theme of "Technological Innovations in Intelligent Systems and Industrial Sustainability". The conference explores innovative solutions for sustainability, crucial for addressing environmental concerns and achieving SDGs.

INCOSSE fosters collaboration among researchers, engineers, and experts, accelerating intelligent system development and sustainable industrial practices. Sustainable industries create jobs, economic growth, and responsible resource use, empowering individuals and communities, as envisioned by BINUS University.

By encouraging the next generation to work in fields related to sustainability and smart systems, INCOSSE increases the potential contributions that they may make to our country.

Thank you for your attention, and I wish all participants a fruitful conference.

Warm regards to you all.

**Prof. Dr. Juneman Abraham, S.Psi, M.Si, CWP, CIRR**  
Vice Rector - Research and Technology Transfer  
BINUS University



## WELCOMING REMARKS

### Dean of Faculty of Engineering



H.E. Dr. Nelly, S.Kom., M.M., CSCA, Rector BINUS University  
Vice Rector, Prof. Dr. Juneman Abraham, S.Psi, M.Psi, CIRR  
Vice Rector in Research and Technology Transfer, BINUS University  
All of keynote speakers, all participants, ladies and gentlemen

Good morning, everyone.

Let us first pray to our Merciful God and thank our Almighty God for all His mercies and blessings that have enabled us to come together today in this webinar conference. Welcome to the 1<sup>st</sup> International Conference on Smart and Sustainable Engineering (INCOSSE) 2023. Welcome to the Faculty of Engineering at Bina Nusantara University. It is a great pleasure to have you all at this conference.

Today, the Faculty of Engineering BINUS University is hosting INCOSSE 2023. This conference brings together academicians, experts, scientists, practitioners, and students with the spirit of disseminating and sharing their ideas and knowledge on related topics. I believe that the contribution papers from the keynote speaker and authors at this conference will come out with the most effective approaches and strategies to synergize human society with its natural environment in a way that benefits both. This annual conference is also the manifestation of our commitment to take part in fostering and empowering society through innovation, technology, and sustainable engineering development. We hope the implementation of research results will improve the quality of human life and environment.

Finally, I would like to express my gratitude to everyone, the committee members, who made this seminar possible and successful. To our keynote speakers, all presenters, all our distinguished guests, and all participants, thank you for being here. Welcome and enjoy the conference.

Jakarta, 9 November 2023

**Dr. Ir. Nina Nurdiani, S.T., M.T.**  
Dean of Faculty of Engineering Bina  
Nusantara University





## WELCOMING REMARKS

### Chair of INCOSSE 2023

Rector of Bina Nusantara University, Dr. Nelly, S.Kom., M.M., CSCA,  
Prof. Dr. Juneman Abraham, S.Psi., M.Si., C.W.P., C.I.R.R , Vice Rector for Research and Technology Transfer  
Dr. Ir. Nina Nurdiani, S.T., M.T. , Dean of Faculty of Engineering  
Distinguish keynote speakers,  
Presenters, and All participants.

*Very good morning.*

With a thankful heart, it is my pleasure to welcome you to the 1<sup>st</sup> International Conference on Smart and Sustainable Engineering (1<sup>st</sup> InCoSSE 2023). I would like to express my greatest appreciation to your participation, as well as your contribution to the 1<sup>st</sup> InCoSSE 2023. InCoSSE is organized by Faculty of Engineering, Bina Nusantara University, with the theme of “Technological Innovations in Intelligent Systems and Industrial Sustainability”.

The 1<sup>st</sup> InCoSSE 2023 handles three main topics, namely:

- Smart Computing and Communication
- Smart Architecture
- Smart Industry

This conference has received 95 submissions. After the review processes conducted by at least two reviewers, only 55 papers that are accepted for presentation in parallel sessions in today’s virtual conference, or a competitive acceptance rate of 58%.

We would like to thank all authors, keynote speakers, reviewers, committee, Faculty of Engineering, and Bina Nusantara University leaders for the contributions and supports to the 1<sup>st</sup> InCoSSE 2023.

Thank you and best regards,

Jakarta, 9 November 2023

**Assoc. Prof. Ir Dave Mangindaan, PhD, MRSC, AMIChemE, IPM, ASEAN Eng.**

Chair of the InCoSSE 2023

Bina Nusantara University

Conference Chair – 1<sup>st</sup> InCoSSE 2023



## Keynote Speaker 1

### Machine Learning Driven Resource Management and Data Security Models for Cloud Environments



Prof. Ashutosh Kumar Singh Ph. D., SMIEEE, MIET, CEng-UK  
Professor of Department of Computer Applications  
National Institute of Technology  
Kurukshetra, Haryana, India

#### Abstract

Cloud environments enabled with minimum upfront capital investment and maximum scalability features allow end users to expand and shrink their demand for resources dynamically over time. However, the fluctuations in the resource demands and pre-defined size of virtual machines (VMs), and sharing of common physical machines among multiple users lead to resource wastage, excessive power consumption, increased security breaches, hampered data privacy, and performance degradation. To address these pivotal and complex challenging issues, this presentation will discuss the following key contributions including an Evolutionary Quantum Neural Network (EQNN) model for the prediction of a dynamic and extensive range of cloud workloads, and Quantum Machine learning-driven Malicious User Prediction (QM-MUP) model that estimates the vicious entity present in the communication system precedently before data allocation by scrutinizing the behavior of each user and estimating the probable data. Both models are the ingenious collaboration of the computational efficiency of Quantum mechanics and adaptive machine learning capabilities of evolutionary neural networks. To deal with the security challenges during data communications among multiple users, the key approach and contributions of Machine Learning and Probabilistic Analysis based data security model will be discussed. Additionally, some glimpses of secure load distribution and execution, and fault-tolerant with sustainable resource distribution will be discussed. These models illustrate effective cloud resource management; data protection through privacy-preserving data storage and analysis, secure sharing, and identification of guilty entities against data leakage in the cloud environment. All these works have been implemented and evaluated using a wide variety of benchmark cloud workload datasets. The achieved results and comparison with the state-of-the-art approaches validated the influential performance and potency of the proposed models.



## Keynote Speaker 2

### Fault-tolerant Service Management for Industrial Cloud Applications



Assoc. Prof. Deepika Saxena Ph.D.  
Associate Professor, Department of Computer Science and Engineering  
The University of Aizu, JAPAN

#### Abstract

In the age of Industrial Cloud Computing, the ever-increasing demand for cloud resources often results in service disruptions, outages, and an alarming surge in power consumption. Traditional solutions, such as adopting multiple cloud providers and replicating virtual machines (VMs), come at a steep operational cost. All these works have been implemented and evaluated using a wide variety of benchmark cloud workload datasets. The achieved results and comparison with the state-of-the-art approaches validated the influential performance and potency of the proposed models. This research introduces two innovative frameworks: the VM Significance Ranking and Resource Estimation based High Availability Management (HM) Model and the Fault Tolerant Elastic Resource Management (FT-ERM) framework.

HM ingeniously optimizes the cost of managing cloud data centers (CDCs) by focusing on critical VMs for implementing failure tolerance strategies. This approach delivers a remarkable 19.56% improvement in service availability, while also achieving significant reductions of 26.67% in active servers and 19.1% in power consumption. On the other hand, FT-ERM harnesses predictive analytics and proactive server monitoring to achieve an impressive 34.47% boost in service availability. What's truly remarkable is that it slashes VM migrations by a staggering 88.6% and trims power consumption by an impressive 62.4% when compared to conventional methods.

In summary, these innovative frameworks represent a beacon of efficiency in the realm of cloud service management, offering elegant solutions to uphold service availability and optimize resource utilization. This research talk will be concluded with promising insights into future research directions and perspectives for developing self-healing and fault-tolerant industrial cloud service management model.





## THE GENERAL SCHEDULE

### 9 November 2023

Time	Agenda
08:00-08:20	Registration
08:20-08:25	Opening the InCoSSE 2023 Seminar by MC
08:25-08:30	Indonesia National Anthem “Indonesia Raya”
08:30-08:35	Opening Prayer
08:35-08:40	Opening Speech 1: Rector of BINUS University (Dr. Nelly, S.Kom., M.M., CSCA)
08:40-08:45	Opening Speech 2: Vice Rector for Research and Technology Transfer (Prof. Dr. Juneman Abraham, S.Psi., M.Si., C.W.P., C.I.R.R.)
08:45-08:50	Opening Speech 3: Dean of Faculty of Engineering (Dr. Ir. Nina Nurdiani, S.T. M.T.)
08:50-08:55	Opening Speech 4: Chairman InCoSSE 2023 (Ir Dave Mangindaan, PhD, MRSC, AMIChemE, IPM, ASEAN Eng.)
08:55-09:00	Photo Session
09:00-09:45	Keynote Speaker Assoc. Prof. Deepika Saxena Ph.D. Moderator:
09:45-10:00	Q&A session Photo Session and Certificate Awarding
10:00-10:45	Keynote Speaker Prof. Ashutosh Kumar Singh Ph. D., SMIEEE, MIET, CEng-UK Moderator:
10:45-11:00	Q&A session Photo Session and Certificate Awarding
11:00-13:00	Break & Ishoma
13:00-14:00	Paralel 1
14:00-14:15	Transition 1
14:10-15:10	Paralel 2
15:10-15:20	Transition 2
15:20-16:20	Paralel 3
16:20-16:30	Transition 3
16:30-17:30	Paralel 4
17:30-17:45	Closing



## Paralel Session: Smart Architecture Smart Industry

### ROOM A

#### Tracks:

Virtual reality/augmented reality  
 Industrial data science  
 Industrial digital transformation  
 Industrial automation

Ses-sion	Sche-dule	Paper ID	Title	Author
1	13:00	ID52	Augmented Reality for Sustainability Innovative Waste Sorting Education	Mochammad Latifulfikri ; Pirelli Rahelya Piri ; I Gusti Ayu Ngurah Stita Maharani ; Fairuz Iqbal Maulana *
	13:10	ID78	Mapping the Scientific Landscape of Augmented Reality for Engineering Education: An Overview of the Last Decade in Scopus Research Publications	Fairuz Iqbal Maulana *; Puput Dani Prasetyo Adi (National Research and Innovation Agency); Mohammad Nazir Arifin (Madura University); andi pramono ; bambang kartono kurniawan
	13:20	ID 6	Efficacy Comparison of Augmented Reality and Virtual Reality-based Games for Post-Stroke Rehabilitation: A Systematic Literature Review	Milkhatussyafa'ah Taufiq *; Danang Wahyu Wicaksono
	13:30	ID35	Exploration of The Metaverse Concept in The Virtual Museum for Traditional House Application Using Virtual Reality Technology	Mirza Ramadhani *; Frihandhika Permana ; Satrya Dirgantara
	13:40	ID44	Utilization of Immersive 360 Image as Digital Twin Technology to Preserve Historical Cultural Heritage of Nyah Lasem Museum	Friska Amalia *; Mila Andria Savitri
	13:50	Q&A	Question and Answer	Moderator: Fairuz Iqbal Maulana
2	14:10	ID65	Immersive Learning in Architectural Building Systems: Navigating VR with SketchUp, Blender, Unity, and Oculus Quest 2	Bonny A Suryawinata *; Wiyantara ww wizaka ; Yusril Arrahman ; Irfan Mahendra ; Herru Darmadi
	14:20	ID62	Exploring Design and Prototyping Techniques for Augmented Reality	Suzanna szn Suzanna *
	14:30	ID54	Visualizing Interactive Design Objects with Augmented Reality Technology in Areas of Hotel Architecture in Indonesia	Verena Arsenia Istanto ; Erica Agatha Soerjono ; Fairuz Iqbal Maulana *; Ida Bagus Ananta Wijaya

	14:40	ID80	Java Culture Application Development for Social Science Elementary Schools Based on Augmented Reality	Pandu Meidian Pratama *; Agik Nur Efendi (IAIN Madura); Zainatul Mufarrikhoh (IAIN Madura); Mohammad Toha (IAIN Madura); Moh. Syafik (IAIN Madura); Erika Kurniawati (Universitas Negeri Surabaya)
	14:50	Q&A	Question and Answer	Moderator: Bonny AS
3	15:10	ID64	Forecasting Analysis for Agriculture Pests Protection Product in Chemical Industry	Fajar Kurniawan *; Sheryl Septiana
	15:20	ID61	Implementing Data Analytics and Machine Learning to Predict Currency Exchange Rates Between USD and IDR	Michael Siek *
	15:30	ID2	Wrapper Method as a Feature Selection Method in Improving Forecast Accuracy (Case Study: IDR/USD Exchange Rate)	Rizka Britania *
	15:40	ID11	The Power of Prophet Model in Time Series Forecasting (Case Study: Foreign Tourist Visits in Indonesia)	Rizka Britania *
	15:50	ID55	Hybrid CNN-based Image Classification for Pump Impeller Defect Classification: Comparative Study and Performance Evaluation of Machine Learning Algorithms	I Gede Susastra Gunawan (Sampoerna University)*; Anak Agung Ngurah Perwira P Redi (Sampoerna University); Arya Adhyaksa Waskita (National Research and Innovation Agency Bandung); Gagus K. Sunnardianto (National Research and Innovation Agency South Tangerang); Julfa Muhammad Amda (National Research and Innovation Agency Cibinong); Hwi-Chie Ho ; Ketut Gita Ayu
	16:00	Q&A	Question and Answer	Moderator: Fajar Kurniawan
4	16:20	ID79	Exploring The SME's Voice-of-Customer using e-Marketplace Feedback Data	Samuel Nata Charis ; Uly Amrina (Universitas Mercu Buana); Dyah Lestari Widaningrum *
	16:30	ID85	The Optimize Parameter Grid for Financial Time Series Stock Exchange Data with Random Forest Algorithm	Leni Susanti *; Dzikri Ziaul Haq Iskandar (Universitas Adhirajasa Reswara Sanjaya ); Yudi Ramdhani (Satu University )
	16:40	ID66	Development of a Mobile-Based Cashflow Management Application Prototype for Micro, Small, and Medium Enterprises (MSMEs) in Indonesia using the Design Thinking Approach	Prasetya Cahya Saputra *; Holly Deviarti ; Triasesiarta Nur ; Rosinta Ria Panggabean



	16:50	ID74	A Web Based E-Budgeting Employee Benefit System	Immanuela Puspasari Saputro *; Tsabit Ghazwan ; Enggar Damar Saraswata ; Karunua Agung Mahardini
	17:00	ID82	The Effect of Smart Home Automation on Human Behavior	Annisa Istiqomah Arrahmah *; Gregorius Hasnadi ; Alicia Tandianto ; Ryudistira Harbani ; Reinald Rafael ; Ananta Hermawan
	17:10	Q&A	Question and Answer	Moderator: Dyah Lestari Widaningrum

## Parallel Session: Smart Computing and Communication

### ROOM B

#### Tracks:

Applications of computer science and engineering  
 Internet of Things  
 Smart devices  
 Machine learning  
 Natural language processing

Ses-sion	Sche-dule	Paper ID	Title	Author
1	13:00	ID4	Extended Nonlinear Conjugate Gradient Method for Projection Matrix Optimization in Compressive Sensing	Endra Oey *
	13:10	ID5	Seismic Waves Tracker Based On Gps Time Synchronization Inside Labview	andiyani andiyani (Universitas Faletahan)*; Mahrizal Masri (Universitas Islam Sumatera Utara); Eliyana Firmansyah (Universitas Faletahan); Dwi Liestyowati (Universitas Faletahan); Muhammad Kusnadi (Universitas Faletahan)
	13:20	ID13	A Review of Body Poses Detection in a Classroom Environment for Engagement Assessment	Gabriel Asael Tarigan *; Gregorius N. Elwirehardja ; Bens Pardamean
	13:30	ID69	Using Web-Based Educational Technology for Japanese Kanji Learning	Hendy R C Dharma *; dewi adriani ; Ratna Handayani
	13:40	ID73	Soft Robot Gripper Design with Fluidic Elastomer Ac-tuation for Lifting Hydroponic Lettuce Plant	Muhammad Zacky Asy'ari *; Audi Putra Heryanto ; Zener S Lie
	13:50	Q&A	Question and Answer	Moderator: Endra Oey
2	14:10	ID34	Analysis Stalkers Influence of Perceived Awareness and E-Trust Factors on Smart Social Networking Users	Surjandy Surjandy *; Stefanus Rumangkit ; Abdullah Billman ; Ary Kusumaningtyas ; Roni Heryatno
	14:20	ID30	Fluid Geometric: An Experimentation of Designing Flexible Multi-Style Typeface Using Variable Font	annisa luthfiasari *; Citra Fadillah
	14:30	ID20	Design of a Wireless Sensor Network as an Automated System Using a PIR Motion Sensor, LDR Light Sensor, and LM35 Temperature Sensor Based on a	Adhe Lingga Dewi *; Roikhanatun Nafi'ah

			Microcontroller	
	14:40	ID36	Hand Keypoints as Feature in Hand Gesture Detection Using Concatenation Keypoint Transpose	Gusti Pangestu (Binus)*; Yaya Heryadi ; Widodo Budiharto ; Alexander Gunawan
	14:50	Q&A	Question and Answer	Moderator: Surjandy
3	15:10	ID70	Watering and Moisture Monitoring System for Hydroponic Planting Media Using IoT	Wiedjaja Atmadja *
	15:20	ID71	Implementation of IoT Mesh Network for Monitoring Hydroponics System Based on Esp8266 Microcontroller and Raspberry Pi	Wiedjaja Atmadja *
	15:30	ID42	IoT Application in Food Industry as Food Loss and Waste Reduction: A Systematic Review	Elisabeth Rukmini *; Monica Audrey
	15:40	ID38	Automatic Irrigation and Internet of Thing Solution for Pottery Fig in Urban Garden	Lisa Kristina (Faculty of Agricultural Technology, Institute of Agriculture STIPER); Hermantoro Hermantoro (Faculty of Agricultural Technology, Institute of Agriculture STIPER); Rudi Nirwantono *; Teddy Suparyanto (Faculty of Agricultural Technology, Institute of Agriculture STIPER); Bens Pardamean (Bioinformatics and Data Science Research Center)
	15:50	ID41	Milk Quality Detection System in the F&B Industry	Santoso Budijono *; Verry Martins Dacosta ; Vincent Suhali
	16:00	Q&A	Question and Answer	Moderator: Wiedjaja Atmadja
4	16:20	ID25	Personalized and Adaptive Learning of M-Learning In Smart Devices	Stefanus Rumangkit *; Surjandy Surjandy ; Abdullah Billman ; Antonius Satria Hadi (Widya Mataram University)
	16:30	ID24	International Relations Studies with Sentiment Analysis Approach on Twitter: An Analysis of Indonesia-UAE Economic Cooperation	Tia Mariatul Kibtiah *
	16:40	ID76	Online Public Opinion in Social Media Twitter using Machine Learning Approaches with Sentiment Analysis in Case Study: Smart City	Fairuz Iqbal Maulana *; Puput Dani Prasetyo Adi (National Research and Innovation Agency); Fauzan Prasetyo Eka Putra (Madura University); Agung Purnomo ; Sinjiru Setyawan
	16:50	ID32	Comparison of TextRank & TF-IDF Algorithm for Extractive Text Summarization	Muhammad Amien Ibrahim *; Felix Prima ; Bryan Felix ; Irvin Irvin ; Yasri Yasri ; Gintoro Gintoro
	17:00	Q&A	Question and Answer	Moderator: Stefanus Rumangkit

## Paralel Session: Smart Architecture Smart Industry

### ROOM C

#### Tracks:

Smart cities/buildings  
 Smart manufacturing  
 Sustainable & renewable energy  
 Artificial intelligence

Ses-sion	Sche-dule	Track & ID	Title	Author
1	13:00	ID86	Design of Groceries Distribution Center for IKN Nusantara	Fransisca Dini Ariyanti *; Alfitho Geraldo Putra ; Yohanes Budi Sulistioadi (Mulawarman University)
	13:10	ID75	Apartment With Thermal Comfort Approach In West Jakarta	Nielson Huang *; Michael Tedja ; Yanita Ardiani
	13:20	ID40	The Impact of Village Branding and Image on Attracting Investment and Local Economic Development	Anton Dwi Fitriyanto ; Adi Teguh Suprpto *; Mulyono Mulyono
	13:30	ID90	Security Data Management in Smart City Using Pentahelix Approach	Chasandra Puspitasari *; Antonio Heltra Pradana (Institut Teknologi Nasional Malang)
	13:40	Q&A	Question and Answer	Moderator: Fransisca Dini Ariyanti
2	14:10	ID95	Experimental 3KW PV Solar Home System with IoT for Residential	Jimmy Linggarjati *
	14:20	ID94	Investigation of the effect of air velocity on indirect solar dryers	Parulian Siagian (Universitas Sumatera Utara); Farel Hasiholan Napitupulu (Universitas Sumatera Utara); Himsar Ambarita (Universitas Sumatera Utara); Yogie Sibagariang (Universitas Sumatera Utara)*; Hendrik Voice Sihombing (Universitas Sumatera Utara)
	14:30	ID39	China-US In a Crossroad: A Case Study Electric Vehicle Relations	Natasya Jo Vionny*; Rangga Aditya Elias
	14:40	ID28	Implementation of the industrial revolution 4.0 which can accelerate the sustainability of clean water	Wahyu sardjono *; Andres Gui

	14:50	Q&A	Question and Answer	Moderator: Jimmy Linggarjati
3	15:10	ID8	Designing of Air Consumption Dashboard using Node-RED for Smart Manufacturing	Carla Sunardi ; Taufik Roni Sahroni *
	15:20	ID9	Development of Electric Energy Dashboard using Node-Red and Quality Function Development for Smart Manufacturing	Regina Mae Lie ; Taufik Roni Sahroni *
	15:30	ID81	Quality Improvement of Food and Beverage Products Delivery Using Decision Making Analysis	Ferryan Tanly ; Noviando Yulio ; Dyah Lestari Widaningrum *
	15:40	ID96	Indonesian Building Index Based on Sustainable Architecture (Indonesia Sustainable Architecture Index - ISAI)	Sigit Wijaksono ; Sasmoko Sasmoko *; Yasinta Indrianti
	15:50	ID98	Determining factors for fulfilling the Indonesian Building Index Based on Sustainable Architecture	Yasinta Indrianti ; Sasmoko Sasmoko *; Sigit Wijaksono ; Yenny Rahmayati
	16:00	Q&A	Question and Answer	Moderator: Taufik Roni Sahroni
4	16:20	ID27	Text Augmentation and Transformers-Based Approach for Sentence Similarity	Andrea Stevens Karnyoto *; Mahmud Isnain ; Gregorius Elwirehardja ; Bens Pardamean
	16:30	ID12	Systematic Literature Review on Machine Learning Approach for Predicting Genetic Diseases	Eric S Hermawan *; Gregorius N. Elwirehardja ; Bens Pardamean
	16:40	ID3	AI-Powered Visual Communicator: Leveraging Midjourney for Visual Communication Design Practice	Rina Kartika *; Candy Reggi Sonia ; Tunjung Riyadi
	16:50	ID92	The Implementation of SVM for the Purpose of Evalu-ating and Improving chatbot responses	Immanuela Puspasari Saputro *; Rian Tri Arjuli ; Yulius Denny Prabowo
	17:00	ID97	BeeBest Mobile Application : Artificial Intelligence for Personalized Self-Assessment	Sasmoko Sasmoko *; Yasinta Indrianti ; Sonya Manalu ; Lukas Tanto Kurniawan
	17:10	Q&A	Question and Answer	Moderator: Andrea Stevens Karnyoto





## Organizing Committee

### Advisory

Prof. Dr. Ir. Harjanto Prabowo, M.M. – Vice President of Binus Higher Education  
Dr. Nelly, S.Kom, MM, CSCA. – Rector of Bina Nusantara University.  
Dr. Ir. Nina Nurdiani, S.T., M.T. –Dean of Faculty of Engineering, Bina Nusantara University.

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