



AIRoSIP'23: 2023 International Conference on Artificial Intelligence Robotics, Signal and Image Processing (AIRoSIP)

Conference Schedule

Day 1 Wednesday, August 9th, 2023			
Time Western Indonesia Time / WIB (GMT+7)	Agenda	Person in Charge	Room
07.30 – 08.00	Registration	Committee	A.R Fachruddin B
08.00-12.30	Opening Ceremony	ICOSI	A.R Fachruddin B
Plenary AIRoSIP			
12.30-13.00	Registration Focal Session	Committee	Stadium General
13.00-13.05	Opening	Master of Ceremony	Stadium General
13.05-13.10	Al-Qur'an Recitation		Stadium General
13.10-13.15	National Anthem (Indonesia Raya) and Sang Surya	Record	Stadium General
13.15-13.30	Welcoming Speech from Dean of Faculty of Engineering	Ir.Aris Widyo Nugroho, M.T., Ph.D.	Stadium General
13.30-14.00	Welcoming Speech from Chairperson	Slamet Riyadi, S.T., M.Sc., Ph.D.	Stadium General
14.00-15.00	Keynote speaker 1	Prof. Dr. Christian Blum	Stadium General
15.00-15.30	Break time		
15.30-17.00	Parallel Session 1	Moderator & LO	Stadium General & Ruang Sidang Teknik
Day 2 Thursday, August 10th, 2023			
07.30 – 08.00	Registration	Committee	Stadium General
08.00-10.00	Parallel Session 2	ICOSI	Stadium General & Ruang Sidang Teknik
10.00-10.15	Coffee Break		Stadium General
10.15-12.00	Parallel Session 3	Master of Ceremony	Stadium General & Ruang Sidang Teknik
12.05-13.10	Break Time		Stadium General
13.00-15.00	Keynote speaker (Offline)	1. Assoc. Prof. Dr. Khoirul Anwar, S.T., M.Eng 2. Ir. Muhammad Akhsin Muflikhun, S.T., Msme., Ph.D	Stadium General



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	Keynote speaker (Online)	1. Prof. Dr. Hsing-Chung Chen 2. Assistant Prof. Waleed Ejaz, Ph.D., P.Eng.	Stadium General
15.00-15.30	Closing Focal Session	Master Of Ceremony	Stadium General
15.00-16.20	Research and Innovation Talkshow		AR Fachrudin B
16.20-16.25	Closing Ceremony	Master of Ceremony	



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Parallel Session Schedule

Parallel Session 1 Day 1 Wednesday, August 9th, 2023

Time Western Indonesia Time / WIB (GMT+7)	Session Code	Person in Charge	Room	Link Zoom
Parallel Session 1				
15.30-17.00	AI.1 Artificial Intelligence and Automation 1	Dr. Siti Nurul Aqmariah Mohd Kanafiah	Stadium General	https://bit.ly/Conference Engineering
15.30-17.00	AI.2 Artificial Intelligence and Automation 2	Dr. Zambri Harun	Stadium General	https://bit.ly/Conference Engineering
15.30-17.00	RO.2 Robotics Mechatronics and Computer Vision 3	Assoc. Prof. Dr. Allan Melvin Andrew	Stadium General	https://bit.ly/Conference Engineering
15.30-17.00	SP.1 Signal and Image Processing 1	Dr. Hasimah Ali	Stadium General	https://bit.ly/Conference Engineering
15.30-17.00	SP.2 Signal and Image Processing 2 (Offline)	Dr. Mohamad Nur Khairul Hafizi Rohani	Ruang Sidang Teknik	https://bit.ly/Conference Engineering

Parallel Session 2, 3 Day 2 Thursday, August 10th, 2023

Time Western Indonesia Time / WIB (GMT+7)	Agenda	Person in Charge	Room	Link Zoom
Parallel Session 2				
08.00-10.00	AI. 3 Artificial Intelligence and Automation 3	Dr. Marni Azira Markom	Stadium General	https://bit.ly/Conference Engineering
08.00-10.00	RO.1 Robotics Mechatronics and Computer Vision1	Dr. Siti Marhainis Othman	Stadium General	https://bit.ly/Conference Engineering
08.00-10.00	SP.3 Parallel Session.2 Signal and Image Processing 3	Dr. Siti Noraini Sulaiman	Stadium General	https://bit.ly/Conference Engineering
Parallel Session 3				
10.15-12.00	AI.4 Artificial Intelligence and Automation 4	Laila Ma'rifatul Azizah, S.Kom., M.I.M.	Stadium General	https://bit.ly/Conference Engineering



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10.15-12.00	AI.5 Artificial Intelligence and Automation 5	Dr. Sazwan Syafiq Mazlan, Is Ts	Stadium General	https://bit.ly/Conference_Engineering
10.15-12.00	SP.4 Signal and Image Processing 4	Dr. Mohd Nasir Ayob	Stadium General	https://bit.ly/Conference_Engineering
10.15-12.00	RO.3 Robotics Mechatronics and Computer Vision 3	Anna Nur Nazilah Chamim, S.T., M.Eng.	Ruang Sidang Teknik	https://bit.ly/Conference_Engineering



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Parallel Session 1 Schedule Day 1

AI.1

Session Chair: Dr. Siti Nurul Aqmariah Mohd Kanafiah

Time: 09 August, 15.30-17.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

No.	ID Paper	Title	Presenter	Authors
1	1570879722	Cognitive communication and networking	Akula Navya; Renuka Chintamu; Sk Ashraf Ali; Aniruddha Bhattacharjya	Akula Navya, Renuka Chintamu and Sk Ashraf Ali (Koneru Lakshmaiah Education Foundation, India); Aniruddha Bhattacharjya (SGT University, India)
2	1570879947	An exploratory study on healthcare applications for remote patients	Servepalli Moushmi Deekshith; Niharika Kandepu; Adapa Akanksha Sri Karthika; Gunji Deepika; Aniruddha Bhattacharjya	Servepalli Moushmi Deekshith, Niharika Kandepu, Adapa Akanksha Sri Karthika and Gunji Deepika (Koneru Lakshmaiah Education Foundation, India); Aniruddha Bhattacharjya (SGT University, India)
3	1570901871	Sentiment Analysis of the Relocation Indonesia Capital City Nusantara Using Support Vector Machine Algorithm	Muhammad Ilham Alhari	Muhammad Ilham Alhari (Telkom University, Indonesia)
4	1570917093	Smart Hydroponic-Based IoT Using Fuzzy Bayes to Control Vapor Pressure Deficit (VPD) in Lettuce Plant	Mohammad Asad Rosyadi; Muhammad Fauzan Edy Purnomo; Setyawan Sakti	Mohammad Asad Rosyadi (Universitas Brawijaya & UB, Indonesia); Muhammad Fauzan Edy Purnomo and Setyawan Sakti (Brawijaya University, Indonesia)
5	1570918180	Violence Detection over online social networks using YOLOV5 and SVM	Abas K. Saber; Ibraheem Nadher Ibraheem; Methaq Talib Gaata	Abas K. Saber (Al-Mustansiriyah University, Iraq); Ibraheem Nadher Ibraheem (Mustansiriyah University, Iraq & Faculty of Basic Education, Iraq); Methaq Talib Gaata (University of Al-Mustansiriyah, Iraq)
6	1570918232	Automated Thorax Classification System in Computed Tomography Images using Deep Convolutional Neural Network	Mohd Firdaus Abdullah; Siti Noraini Sulaiman; Muhammad Khusairi Osman; Noor Khairiah A. Karim; Adi Izhar Che Ani; Nina Madzhi	Mohd Firdaus Abdullah (Universiti Teknologi MARA, Cawangan Pulau Pinang, Malaysia); Siti Noraini Sulaiman (Universiti Teknologi MARA, Malaysia); Muhammad Khusairi Osman (Universiti Teknologi Mara (UiTM), Malaysia); Noor Khairiah A. Karim (Universiti Sains Malaysia, Malaysia); Adi Izhar Che Ani (Universiti Teknologi MARA, Malaysia); Nina Madzhi (Universiti Teknologi MARA, Shah Alam, Malaysia)



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7	1570918178	Deep Learning Optimizer Evaluation in Blur Detection of Digital Breast Tomosynthesis Images using CNN Constructed from Scratch	Nur Athiqah Binti Harron; Siti Noraini Sulaiman; Muhammad Khusairi Osman; Iza Sazanita Isa; Noor Khairiah A. Karim; Yessi Jusman	Nur Athiqah Binti Harron (Universiti Teknologi MARA, Cawangan Pulau Pinang Pulau Pinang, Malaysia); Siti Noraini Sulaiman (Universiti Teknologi MARA, Malaysia); Muhammad Khusairi Osman (Universiti Teknologi Mara (UiTM), Malaysia); Iza Sazanita Isa (Universiti Teknologi Mara, Malaysia); Noor Khairiah A. Karim (Universiti Sains Malaysia, Malaysia); Yessi Jusman (Universitas Muhammadiyah Yogyakarta, Indonesia)
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AI.2

Session Chair: Dr. Zambri Harun

Time: 09 August, 15.30-17.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

No.	ID Paper	Title	Presenter	Authors
1	1570918892	Internet Of Things-based Botnet Traffic Detection And Analysis Using Deep Convolutional Neural	Doaa M Majed; Abbas Abdulazeez Abdulhameed; Methaq Talib Gaata	Doaa M Majed (Mustansiriyah University, Iraq); Abbas Abdulazeez Abdulhameed (University of Mustansiriyah, Iraq); Methaq Talib Gaata (University of Al-Mustansiriyah, Iraq)
2	1570922972	A Comparison of Seasonal Auto Regressive Integrated Moving Average and Long Short Term Memory in Forecasting Demand Time Series	Karel Tan; Kevin Tanoto; Nobert Pratama; Heruna Tanty	Karel Tan (Bina Nusantara University, Indonesia); Kevin Tanoto (Bina Nusantara, Indonesia); Nobert Pratama and Heruna Tanty (Bina Nusantara University, Indonesia)
3	1570921374	Brain Tumor Segmentation from MRI scans using 2D U-Net and other U-Net-based models	Ma Sheila A Magboo; Andrei Coronel	Ma Sheila A Magboo (University of the Philippines Manila, Philippines); Andrei Coronel (Ateneo de Manila University, Philippines)
4	1570922406	Electronic Nose with Artificial Neural Network Method on Raspberry Pi 4 for Detecting Pork and Beef	W. S. Mada Sanjaya; Akhmad Roziqin; Thirida Febrilian Putra; Agung Wijaya Temiesela; M. Fauzi Badru Zaman; Fillah Alamsyah; Ahsani Taqwim; Faris Haidar Mubasyir; Nur Azizah Maulina Purnama Sari; Putri Sintia; Samsul Gustamal; Dyah Anggraeni	W. S. Mada Sanjaya (UIN Sunan Gunung Djati Bandung, Indonesia & Bolabot Techno Robotic Institute, Indonesia); Akhmad Roziqin, Thirida Febrilian Putra, Agung Wijaya Temiesela, M. Fauzi Badru Zaman, Fillah Alamsyah, Ahsani Taqwim, Faris Haidar Mubasyir, Nur Azizah Maulina Purnama Sari, Putri Sintia and Samsul Gustamal (UIN Sunan Gunung Djati Bandung, Indonesia); Dyah Anggraeni (UIN Sunan Gunung Djati & Bolabot Techno Robotic Institute, Indonesia)
5	1570925935	Tree Counting and Health Assessment in Central Jakarta, Indonesia Using Aerial Imagery Data with Deep Learning	Rafael Edwin Hananto Kusumo; Adella Gravita, Ms.; Ricky Prasajo; Edy Irwansyah	Rafael Edwin Hananto Kusumo, Adella Gravita, Ms., Ricky Prasajo and Edy Irwansyah (Bina Nusantara University, Indonesia)



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6	1570919587	Digital survey for customer satisfaction of Regional Drinking Water Companies (PDAM) Using the mWater Application and the Slovin Formula Method	Wilarso Wilarso; Nurkholis Nurkholis; Pria Sukanto Sukanto; Mohamad Anas Sobarnas; Shahrizan Jamaludin; Umar Tsani Abdurrahman	Wilarso Wilarso, Nurkholis Nurkholis, Pria Sukanto Sukanto and Mohamad Anas Sobarnas (Sekolah Tinggi Teknologi Muhammadiyah Cileungsi, Indonesia); Shahrizan Jamaludin (Universiti Kebangsaan Malaysia, Malaysia); Umar Tsani Abdurrahman (Sekolah Tinggi Teknologi Muhammadiyah Cileungsi, Indonesia)
7	1570935834	Classification of Community Responses to Service Offices Using a Combined CNN-LSTM Algorithm and Random Forest	Alya Rohalia; Zahir Zainuddin; Zulkifli Tahir	Alya Rohalia, Zahir Zainuddin and Zulkifli Tahir (Hasanuddin University, Indonesia)

RO.2

Session Chair: Assoc. Prof. Dr. Allan Melvin Andrew

Time: 09 August, 15.30-17.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

No.	ID Paper	Title	Presenter	Authors
1	1570905555	Development of Automatic Rice Cookers With Washing system	Hendriko Hendriko; Shifa Raysa; Made Rahmawaty; Nur Khamdi; Tsanil Salsamara	Hendriko Hendriko, Shifa Raysa, Made Rahmawaty, Nur Khamdi and Tsanil Salsamara (Politeknik Caltex Riau, Indonesia)
2	1570920976	Design of Baby Incubator Equipped with PID Temperature Controller and Body Weight Sensor	Hanifah Rahmi Fajrin; Muhammad Ahdan Fawwaz Nurkholid; Muhammad Rifqi Nurrachman	Hanifah Rahmi Fajrin, Muhammad Ahdan Fawwaz Nurkholid and Muhammad Rifqi Nurrachman (Universitas Muhammadiyah Yogyakarta, Indonesia)
3	1570936442	Audiometry Prototype with Examination Diagnostics	Erika Loniza; Vera Komalasari; Kurnia Chairunnisa	Erika Loniza and Vera Komalasari (Universitas Muhammadiyah Yogyakarta, Indonesia); Kurnia Chairunnisa (Muhammadiyah University of Yogyakarta, Indonesia)
4	1570936456	Rheumatic Compress Therapy Tool with Fuzzy Logic Mamdani	Erika Loniza	Erika Loniza (Universitas Muhammadiyah Yogyakarta, Indonesia)
5	1570936361	Hybrid Force and Position Control of the KUKA IIWA Robotic Manipulator	Meet Parmar; Himanshu K. Patel	Meet Parmar (Nirma University, India); Himanshu K. Patel (Nirma University & International Society of Automation, India)
6	1570933888	An Analysis on the Energy Consumption of Coverage Path Planning Algorithms on Multiple UAVs	Norrima Mokhtar	Norrima Mokhtar (University of Malaya, Malaysia)
7	1570933898	A Study on the Effects of Increasing Obstacles on Path Generation Time, Energy and Steps Count using Rapidly Exploring Random Tree* (Asterisk) Algorithm	Noraisyah Mohd Shah; Norrima Mokhtar	Noraisyah Mohd Shah (Universiti Malaya, Malaysia); Norrima Mokhtar (University of Malaya, Malaysia)



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SP.1

Session Chair: Dr. Hasimah Ali

Time: 09 August, 15.30-17.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

No.	ID Paper	Title	Presenter	Authors
1	1570901874	Analysis Quality of Service (QoS) Wifi 2.4 Ghz Network Study Case: Telkom University Dormitory Hall	Muhammad Ilham Alhari	Muhammad Ilham Alhari (Telkom University, Indonesia)
2	1570914522	Malaria Early Diagnosis Based on Transfer Learning and CNN Architecture	Zul Indra; Yessi Jusman; Elfizar Elfizar	Zul Indra (Universitas Riau, Indonesia); Yessi Jusman (Universitas Muhammadiyah Yogyakarta, Indonesia); Elfizar Elfizar (Universitas Riau, Indonesia)
3	1570917946	Unsafe Actions Detection for humans using YOLOv7	Mohammed Fathi Abbad; Ibraheem Nadther Ibraheem	Mohammed Fathi Abbad and Ibraheem Nadther Ibraheem (Al-Mustansiriya University, Iraq)
4	1570901878	A Future IT Roadmap Information Architecture Using TOGAF ADM: Towards Smart Village Concept	Muhammad Ilham Alhari	Muhammad Ilham Alhari (Telkom University, Indonesia)
5	1570917884	Brain Tumor Classification Based On MRI Image Processing Using Convolutional Neural Network (CNN) With ResNet Architecture	Divo Ilhamdi; Yunendah Fuadah; Sofia Sa'idah; Zhafeni Arif	Divo Ilhamdi (Telkom University, Indonesia); Yunendah Fuadah (Telkom University & Image and Computer Vision (IMV Laboratory), Indonesia); Sofia Sa'idah and Zhafeni Arif (Telkom University, Indonesia)
6	1570918634	Implementation of Deep Learning Algorithm with Residual U-Net Architecture for Building Detection	Ananda Ilyasa Putra; Esti Suryani; Wiharto Wiharto	Ananda Ilyasa Putra (Universitas Sebelas Maret, Indonesia); Esti Suryani (University of Sebelas Maret, Indonesia); Wiharto Wiharto (Universitas Sebelas Maret, Indonesia)
7	1570919381	Digital Image Encryption Analysis Using the Rikitake Chaotic System	W. S. Mada Sanjaya; Akhmad Roziqin; Agung Wijaya Temiesela; M. Fauzi Badru Zaman; Aria Dewa Wibiksana; Dyah Anggraeni	W. S. Mada Sanjaya (UIN Sunan Gunung Djati Bandung, Indonesia & Bolabot Techno Robotic Institute, Indonesia); Akhmad Roziqin, Agung Wijaya Temiesela, M. Fauzi Badru Zaman and Aria Dewa Wibiksana (UIN Sunan Gunung Djati Bandung, Indonesia); Dyah Anggraeni (UIN Sunan Gunung Djati & Bolabot Techno Robotic Institute, Indonesia)



AIRoSIP'23: 2023 International Conference on Artificial Intelligence Robotics, Signal and Image Processing (AIRoSIP)

SP.2

Session Chair: Mohamad Nur Khairul Hafizi Rohani

Time: 09 August, 15.30-17.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

Offline : Ruang Sidang Teknik

No.	ID Paper	Title		Authors
1	1570930249	Compressive Sensing (CS) on Wireless Sensor Network for Manufacturing Process Monitoring	Signal and Image Processing	Muhammad Chaerullah (Politeknik Astra & Telkom University, Indonesia)
2	1570920256	Evaluation of Partial Discharge Signal Propagation Using Finite Element Method in Power Transformer	Mohamad Nur Khairul Hafizi Rohani; Muhammad Alleef Abd Jalil; Afifah Shuhada Rosmi; Abdullahi Abubakar Mas'ud; Firdaus Muhammad-Sukki; Kumuthawathe Ananda-Rao	Mohamad Nur Khairul Hafizi Rohani, Muhammad Alleef Abd Jalil and Afifah Shuhada Rosmi (Universiti Malaysia Perlis, Malaysia); Abdullahi Abubakar Mas'ud (Jubail Industrial City & Jubail Industrial College, Saudi Arabia); Firdaus Muhammad-Sukki (Edinburgh Napier University, United Kingdom (Great Britain)); Kumuthawathe Ananda-Rao (University Malaysia Perlis, Malaysia)
3	1570936241	Application of Autonomous Robotics for En-Masse coolant channel Replacement Program	Rajat Jayantilal Rathod; Himanshu K. Patel; Priyank Jayantilal Rathod	Rajat Jayantilal Rathod (Nirma University, India & Eeio Solutions Private Limited, India); Himanshu K. Patel (Nirma University & International Society of Automation, India); Priyank Jayantilal Rathod (Eeio Solutions Pvt Ltd, India)



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Parallel Session 2 Schedule Day 2

AI.3

Session Chair: **Dr. Marni Azira Markom**

Time: 10 August, 08.00-10.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

No.	ID Paper	Title	Presenter	Authors
1	1570919469	Monkeypox Skin Lesion Detection using Transfer Learning Methods	Vincent Peter C Magboo; Ma Sheila A Magboo	Vincent Peter C Magboo and Ma Sheila A Magboo (University of the Philippines Manila, Manila, Philippines)
2	1570919530	Machine Condition Monitoring System Based on IoT Platform for Intelligent Maintenance	Mastang Mastang; Wilarso Wilarso; Muhamad Ali Pahmi Pahmi; Dan Mugisidi; Norhana Arsad	Mastang Mastang, Wilarso Wilarso and Muhamad Ali Pahmi Pahmi (Sekolah Tinggi Teknologi Muhammadiyah Cileungsi, Indonesia); Dan Mugisidi (Universitas Muhammadiyah UHAMKA, Indonesia); Norhana Arsad (Universiti Kebangsaan Malaysia, Malaysia)
3	1570930059	Predicting Market Manipulation In Stock Market Using Supervised Machine Learning: Case Study From The Indonesia Stock Exchange Unusual Market Activity Cases	Muhammad Ghozy UI Haq; Kodrat Mahatma; Betty Purwandari	Muhammad Ghozy UI Haq (University of Indonesia & Indonesia Financial Service Authority, Indonesia); Kodrat Mahatma and Betty Purwandari (Universitas Indonesia, Indonesia)
4	1570926515	Application of Support Vector Machine (SVM) Method for Photovoltaic Condition Classification Based on Characteristic Curve Indicators	Imam Faried Assalam; Indar Chaerah Gunadin; Syafaruddin Syafaruddin	Imam Faried Assalam (Universitas Hasanuddin, Indonesia); Indar Chaerah Gunadin (Hasanuddin University, Indonesia); Syafaruddin Syafaruddin (Universitas Hasanuddin Makassar, Indonesia)
5	1570928240	Optimization of Hybrid Generation (PVs, Batteries, and Generators) in an Off-Grid Area Using a Multi-Objective Optimization Approach	Dianti Utamidewi; Indar Chaerah Gunadin; Syafaruddin Syafaruddin	Dianti Utamidewi (Universitas Hasanuddin, Indonesia); Indar Chaerah Gunadin (Hasanuddin University, Indonesia); Syafaruddin Syafaruddin (Universitas Hasanuddin Makassar, Indonesia)
6	1570928318	Deep Learning Model for Classifying Public Opinions on Energy Sector IHSG Stocks on the Twitter Social Media Platform	Bambang Sulistio; Yaya Heryadi; Lukas Lukas; Wayan Suparta; Ilvico Sonata	Bambang Sulistio and Yaya Heryadi (Bina Nusantara University, Indonesia); Lukas Lukas (Universitas Katolik Indonesia Atma Jaya, Indonesia); Wayan Suparta (Institut Teknologi Nasional Yogyakarta, Indonesia & Bina Nusantara University, Indonesia); Ilvico Sonata (BINUS University, Indonesia)
7	1570928573	Poverty Level Prediction Based on Time Series Data using Auto Arima	Nadine Aulia Fazrina; Dedy Rahman Wijaya; Sari Dewi Budiwati; Budhy Aditya Hadie	Nadine Aulia Fazrina, Dedy Rahman Wijaya and Sari Dewi Budiwati (Telkom University, Indonesia); Budhy Aditya Hadie (Diskominfor Bandung, Indonesia)
8	1570929656	Prediction of Internet Broadband Connectivity Classification in West Java Indonesia Using Machine Learning	Wahyu H Kusuma Atmaja; Yaya Heryadi; Ilvico Sonata; Lukas Lukas; Wayan Suparta	Wahyu H Kusuma Atmaja (Bina Nusantara University & PLN Icon plus, Indonesia); Yaya Heryadi (Bina Nusantara University, Indonesia); Ilvico Sonata (BINUS University, Indonesia); Lukas Lukas (Universitas Katolik Indonesia Atma Jaya, Indonesia); Wayan Suparta (Institut Teknologi Nasional Yogyakarta, Indonesia & Bina Nusantara University, Indonesia)



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9	1570930291	Aerial Image-Based Semantic Segmentation for Forest Fire Identification	Nadilla Asyifa Salma; Mahmud Dwi Sulistiyo; Risnandar Risnandar; Febryanti Sthevanie; Gia Septiana Wulandari	Nadilla Asyifa Salma (Telkom University, Indonesia); Mahmud Dwi Sulistiyo (Telkom University, Indonesia & Nagoya University, Japan); Risnandar Risnandar (The IVDA-Research Group-Research Center for Information and Data Sciences-BRIN, Indonesia); Febryanti Sthevanie and Gia Septiana Wulandari (Telkom University, Indonesia)
10	1570928597	Improving Radar-Based Rainfall Estimation with Ensemble Learning: A Comparative Analysis with the ZR Equation	Rashifa Khairani Setianegara; Maulana Putra; Djati Handoko; Mohammad Rosid	Rashifa Khairani Setianegara, Maulana Putra and Djati Handoko (Universitas Indonesia, Indonesia); Mohammad Rosid (University of Indonesia, Indonesia)

RO.1

Session Chair: Mohamad Nur Khairul Hafizi Rohani

Time: 10 August, 08.00-10.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

No.	ID Paper	Title	Presenter	Authors
1	1570938828	Classification of Water Apple (Syzygium aqueum) Leaf Varieties Using Transfer Learning	Agus Pratondo; Toufan Tambunan; Astri Novianty	Agus Pratondo, Toufan Tambunan and Astri Novianty (Telkom University, Indonesia)
2	1570935938	Classification of Spine Images Using Texture based DWT for Normal and Scoliosis	Hasimah Ali; Siti Nurul Aqmariah Mohd Kanafiah; Mohamed Elshaikh	Hasimah Ali (University Malaysia Perlis, Malaysia); Siti Nurul Aqmariah Mohd Kanafiah (Universiti Malaysia Perlis, Malaysia); Mohamed Elshaikh (UniMAP, Malaysia)
3	1570929767	Classification of Hypertension Based on Machine Learning	Ayu Sekar Safitri; Thalita Dewi Rahmaniar; Indah Indriani; Yunendah Fuadah; Sofia Saidah; Tody Wibowo	Ayu Sekar Safitri and Thalita Dewi Rahmaniar (Telkom University, Indonesia); Indah Indriani (Telkom Unveristy, Indonesia); Yunendah Fuadah (Telkom University & Image and Computer Vision (IMV Laboratory), Indonesia); Sofia Saidah and Tody Wibowo (Telkom University, Indonesia)
4	1570929491	Investigating the Impact of Data Augmentation for Fine-Grained Grocery Product Classification based on Vision Transformer	Rissa Rahmania; Yaya Heryadi; Lukas Lukas; Wayan Suparta; Ilvico Sonata	Rissa Rahmania and Yaya Heryadi (Bina Nusantara University, Indonesia); Lukas Lukas (Universitas Katolik Indonesia Atma Jaya, Indonesia); Wayan Suparta (Institut Teknologi Nasional Yogyakarta, Indonesia & Bina Nusantara University, Indonesia); Ilvico Sonata (BINUS University, Indonesia)
5	1570930032	Classification of Cataract Fundus Images Using Convolutional Neural Network (CNN) Method EfficientNet-B0 Architecture	Erni Yanthy Pardede; Alvian Pandapotan Sitohang; Yunendah Fuadah; Farah Hanifah; Nur Alifia Azzahra; Rita Magdalena; Sofia Saidah	Erni Yanthy Pardede and Alvian Pandapotan Sitohang (Telkom University, Indonesia); Yunendah Fuadah (Telkom University & Image and Computer Vision (IMV Laboratory), Indonesia); Farah Hanifah, Nur Alifia Azzahra, Rita Magdalena and Sofia Saidah (Telkom University, Indonesia)



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6	1570933706	Classification of Building Structure Fragility Levels with Machine Learning Based on Hue and Zernike Moment Invariant Methods	Muhammad Fajrul Faiz; Yessi Jusman; Ahmad Zaki	Muhammad Fajrul Faiz, Yessi Jusman and Ahmad Zaki (Universitas Muhammadiyah Yogyakarta, Indonesia)
7	1570935962	Unleashing the Power of Deep Neural Networks for Breast Cancer Diagnosis	Ohood F Ismael; Maryim Omran ALkuzaay; Monji Kherallah; Fahmi Kammoun	Ohood F Ismael (University of Sfax, Iraq); Maryim Omran ALkuzaay (University of Kufa, Iraq); Monji Kherallah (Academia, Tunisia); Fahmi Kammoun (FSS, Tunisia)
8	1570935929	Off-grid Multi-carrier Microgrid System Design using Moth-flame Optimization Algorithm in Polytechnic University of the Philippines-Manila	Joeneill De Leon; Mark Laurence Lazatin; Mikka Geroleo; Ryan John Dagatan; Lady Xyrylle S.A Galvez; Jeffrey E. Sabornido; Manuel M Muhi; Orland D Tubola	Joeneill De Leon, Mark Laurence Lazatin, Mikka Geroleo, Ryan John Dagatan, Lady Xyrylle S.A Galvez, Jeffrey E. Sabornido, Manuel M Muhi and Orland D Tubola (Polytechnic University of the Philippines, Philippines)
9	1570938814	Enhancing Object Detection and Navigation for Visually Impaired Individuals: A YOLOv3-Based Approach with GPS Integration	Thifal Bariq Athallah; Anhar Risnumawan	Thifal Bariq Athallah and Anhar Risnumawan (Politeknik Elektronika Negeri Surabaya, Indonesia)
10	1570938894	Inverted Pendulum Balance Control With PID Method Based on Open PLC	Marcellino Mandala Saputra; Eko Budi Utomo	Marcellino Mandala Saputra and Eko Budi Utomo (Politeknik Elektronika Negeri Surabaya, Indonesia)

SP.3

Session Chair: Dr. Siti Noraini Sulaiman

Time: 10 August, 08.00-10.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

Offline : Ruang Sidang Teknik

No.	ID Paper	Title	Presenter	Authors
1	1570924616	Predicting Microbial Populations In Seafood Using Support Vector Regression Algorithms And Electronic Nose	Emung Zakaria; Dedy Rahman Wijaya; Tedi Gunawan	Emung Zakaria, Dedy Rahman Wijaya and Tedi Gunawan (Telkom University, Indonesia)
2	1570920987	Machine Learning for Speech Emotion Recognition	Darwindra Darwindra; Sofia Sa'idah; Bambang Hidayat	Darwindra Darwindra, Sofia Sa'idah and Bambang Hidayat (Telkom University, Indonesia)
3	1570920991	Glaucoma Detection on Eye Fundus Image using Machine Learning Method	Dhimas Chandra Bagaskara; Sofia Sa'idah; Rita Magdalena	Dhimas Chandra Bagaskara, Sofia Sa'idah and Rita Magdalena (Telkom University, Indonesia)
4	1570929585	Prediction of Colon Cancer Using DenseNet121, CNN, and ResNET50 Machine Learning Models and Using Image Processing Techniques	Mahadi Hasan; Jahiril Islam; Minhaz Ahmed; Md Maruf Hasan	Mahadi Hasan (The University of Tennessee at Chattanooga, USA); Jahiril Islam (New Mexico Institute of Mining and Technology, USA); Minhaz Ahmed (Amazon.com, USA); Md Maruf Hasan (University of South Dakota, USA)



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5	1570930046	Convolutional Neural Network (CNN) for Quality of Coffee Beans Classification System	Nadillah Rahmatia Kautsari	Nadillah Rahmatia Kautsari (Telkom University, Indonesia)
6	1570932205	Potential of Aggregation and Selection of Cellular Network Carrier to Support Mobile Subscribers	Indar Surahmat; Widyasmoro Widyasmoro	Indar Surahmat and Widyasmoro Widyasmoro (Universitas Muhammadiyah Yogyakarta, Indonesia)
7	1570930734	Adversarial Learning for Text to Image Semantic Consistency using Deep Fusion(DF-GAN)	Sujata Sachin Virulkar	Sujata Sachin Virulkar (AISSMS IOIT Pune, India)
8	1570935700	Implementation of MobileNetV2 SSD FPN-Lite CNN Model for Real-time Detection of Spinach Leaf Diseases	Rosmiati Jamiah, Jr; Ingrid Nurtanio; Andani Achmad	Rosmiati Jamiah, Jr, Ingrid Nurtanio and Andani Achmad (Hasanuddin University, Indonesia)
9	1570926015	Numerical Analysis on River Slope Reinforcement System for Erosion Control Using Finite Element Method	Kezia Samantha; Adhitya Yoga Purnama; Devi Oktaviana Latif; Pinta Astuti; Bayu Ilham Nasukha	Kezia Samantha, Adhitya Yoga Purnama and Devi Oktaviana Latif (Universitas Gadjah Mada, Indonesia); Pinta Astuti (Universitas Muhammadiyah Yogyakarta, Indonesia); Bayu Ilham Nasukha (Universitas Gadjah Mada, Indonesia)
10	1570937459	Analysis of Effect Self-Healing on Corrosion Concrete Using Ultrasonic Method	Rivky Afanda; Ahmad Zaki	Rivky Afanda (Muhammadiyah University of Yogyakarta, Indonesia); Ahmad Zaki (Universitas Muhammadiyah Yogyakarta, Indonesia)
11	1570894060	Common Mode Noise Reduction Strategies in Radar Devices	Puput Dani Prasetyo Adi	Puput Dani Prasetyo Adi (National Research and Innovation Agency (BRIN-RI), Indonesia)



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Parallel Session 3 Schedule Day 2

AI.4

Session Chair: **Laila Ma'rifatul Azizah**

Time: 10 August, 10.15-12.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

No.	ID Paper	Title	Presenter	Authors
1	1570930328	Enhancing Movie Recommendations: A Hybrid Filtering Approach Combining Collaborative and Content-Based Filtering	Esther Vemberly; Eugenia Ancilla; Anderies Anderies; Andry Chowanda	Esther Vemberly and Eugenia Ancilla (BINUS University, Indonesia); Anderies Anderies and Andry Chowanda (Bina Nusantara University, Indonesia)
2	1570936166	Artificial Intelligence-Driven Conceptual Framework to Generate Value from the Data in the Banking Industry: A Systematic Review	Idha Kristiana; Ford Gaol; Suhono Harso; Benny Ranti	Idha Kristiana (Bina Nusantara University, Indonesia); Ford Gaol (Bina Nusantara University, Jakarta, Indonesia); Suhono Harso (Indonesia); Benny Ranti (Bina Nusantara University, Indonesia)
3	1570933561	Classifying Tweet Sentiment Analysis on Airlines using Random Forest Classifier, Naïve Bayes Classifier and K-Nearest Neighbors Classifier Algorithm	Ivan Alexander	Ivan Alexander (Bina Nusantara University, Indonesia)
4	1570932046	Investigation on Machine Learning Based Approaches for Estimating the Critical Temperature of Superconductors	Fatin Abrar Shams; Rashed Hasan Ratul; Ahnaf Islam Naf; Syed Shaek Hossain Samir; Mirza Muntasir Nishat; Fahim Faisal; Md. Ashraful Hoque	Fatin Abrar Shams (IUT, Bangladesh); Rashed Hasan Ratul (Islamic University of Technology (IUT), Bangladesh); Ahnaf Islam Naf and Syed Shaek Hossain Samir (IUT, Bangladesh); Mirza Muntasir Nishat, Fahim Faisal and Md. Ashraful Hoque (Islamic University of Technology, Bangladesh)
5	1570933023	Smart Closed-Loop Jamming System	Hosam Alamlah; Peter Joseph	Hosam Alamlah (University of North Carolina Wilmington & Louisiana Tech University, USA); Peter Joseph (University of North Carolina Wilmington, USA)
6	1570933391	IoT Model for Rescue Operations Among First Responders for Disaster Management	Swarnamouli Majumdar; Sonny Kirkley	Swarnamouli Majumdar (University of Massachusetts Lowell, USA); Sonny Kirkley (Indiana University, USA)
7	1570935933	Predicting the Rooftop Solar Energy Potential of the City of Manila Using an Artificial Neural Network based System Utilizing Geographic Features	Jeheu Jesse Dela Cruz; Casey Amirel Bundoc; Redgienald Allen D. De Guzman; Hector V Dionisio; Michelle Anne G. Tumarong; Carl Francis A Veloso; Orland D Tubola; Manuel M Muhi	Jeheu Jesse Dela Cruz, Casey Amirel Bundoc and Redgienald Allen D. De Guzman (Polytechnic University of the Philippines, Philippines); Hector V Dionisio (Polytechnic University of the Philippines - Manila, Philippines); Michelle Anne G. Tumarong (Polytechnic University of the Philippines, Philippines); Carl Francis A Veloso (Polytechnic University of the Philippines - Manila, Philippines); Orland D Tubola and Manuel M Muhi (Polytechnic University of the Philippines, Philippines)
8	1570935734	Deep Learning-Based Short-Term Power Output Prediction for Calatagan Solar Farm using CNN-LSTM Hybrid Model	Pristine Louise A. Villafior; John Paulo Andal; Ferolyn A Aytona; Maria Chelzea Anne A. Duque; Jessie Niño C Marquez; Geoffrey T Salvador; Orland D Tubola	Pristine Louise A. Villafior (Philippines); John Paulo Andal and Ferolyn A Aytona (Polytechnic University of the Philippines, Philippines); Maria Chelzea Anne A. Duque and Jessie Niño C Marquez (Philippines); Geoffrey T Salvador and Orland D Tubola (Polytechnic University of the Philippines, Philippines)



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9	1570933884	Utilizing Non Linear Modeling Techniques for Fugitive Gas Emissions Data in Environmental Monitoring Applications	Norrima Mokhtar	Norrima Mokhtar (University of Malaya, Malaysia)
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AI.5

Session Chair: Dr. Sazwan Syafiq Mazlan, Is Ts

Time: 10 August, 10.15-12.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

No.	ID Paper	Title	Presenter	Authors
1	1570936655	Federated Learning in IoT: A Survey from a Resource-Constrained Perspective	Ishmeet Kaur; Adwaita Janardhan Jadhav	Ishmeet Kaur (USA); Adwaita Janardhan Jadhav (Apple, USA)
2	1570936819	Prediction of preferences for public transport car types using machine learning	Agus Pratondo; A. P. Sujana	Agus Pratondo and A. P. Sujana (Telkom University, Indonesia)
3	1570936460	Utilizing Artificial Neural Networks to Evaluate the Bioenergy Potential of Coconut as a Primary Power Generator in the CALABARZON Region	Thomas Felix P Balbaboco; Lemuel V Bassig; Coleen B Capuno; Jhubean Harold Quetua; Nathaniel John F Raya; Hugh Gerard Michel M Santos; Nicole D Umali; Orland D Tubola	Thomas Felix P Balbaboco (Polytechnic University of the Philippines & None, Philippines); Lemuel V Bassig, Coleen B Capuno, Jhubean Harold Quetua, Nathaniel John F Raya, Hugh Gerard Michel M Santos, Nicole D Umali and Orland D Tubola (Polytechnic University of the Philippines, Philippines)
4	1570936461	Knowledge Acquisition from Student Lecture Reflection Data: Leveraging Large Language Models and Tacit Knowledge	Bacharuddin Adieb Pratama; Kemas Wiharja; Gia Septiana Wulandari	Bacharuddin Adieb Pratama, Kemas Wiharja and Gia Septiana Wulandari (Telkom University, Indonesia)
5	1570936464	Cyberbullying Detection on Twitter using Convolutional Neural Network (CNN) and Gated Recurrent Unit (GRU)	Nur Wakhidah Fitri Amalia; Erwin B. Setiawan	Nur Wakhidah Fitri Amalia and Erwin B. Setiawan (Telkom University, Indonesia)
6	1570940491	A Smart Intravenous Infusion Dosing System	Mayur Rele; Dipti Patil	Mayur Rele (ISACA, ISC2, IEEE & Parachute Health, USA); Dipti Patil (University of Cumberlands, USA)
7	1570936670	List-wise Learning To Rank Approach Using Bert For Question-Answering System	Sheeba Naz; Aditi Sharan	Sheeba Naz and Aditi Sharan (Jawaharlal Nehru University, India)
8	1570940398	Arabic Dialect Identification On Social Media: Mini Review	Enas Alqulaity; Wael Yafooz; Abdullah Alsaeedi	Enas Alqulaity, Wael Yafooz and Abdullah Alsaeedi (Taibah University, Saudi Arabia)
9	1570940445	An Overview of Artificial Intelligence in the Detection of Suspicious Arabic Text on Social Media Platforms	Amal Albalawi; Wael M.S Yafooz	Amal Albalawi (University of Prince Mugrin & Taibah University, Saudi Arabia); Wael M.S Yafooz (Taibah University, Saudi Arabia)



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SP.4

Session Chair: Dr. Mohd Nasir Ayob

Time: 10 August, 10.15-12.00 WIB

Link Zoom : https://bit.ly/Conference_Engineering

No.	ID Paper	Title	Presenter	Authors
1	1570935957	Simulation and Analysis of Solar Energy Potential Along South Luzon Expressway (SLEX): Integrating Solar Photovoltaic Systems for Sustainable Roadway Power Generation	Eddie S. Antonio, Jr.; Joshua Ramon E Benigno; Hanri James C Care; Hans Patrick Q. Carlos; Mekaella D Pascua; Mark Vincent H. Santelices; Orland D Tubola; Manuel M Muhi	Eddie S. Antonio, Jr., Joshua Ramon E Benigno, Hanri James C Care, Hans Patrick Q. Carlos, Mekaella D Pascua, Mark Vincent H. Santelices, Orland D Tubola and Manuel M Muhi (Polytechnic University of the Philippines, Philippines)
2	1570936074	Banana-based Biomass Power Plant Site Suitability Analysis through GIS mapping in Davao del Norte	Kian Xavier J. Agustin; Chad Henry S Cabalonga; Isaac F. Esmale; John Christian R. Valencia; Michael Neo Angelo F Tinay; Orland D Tubola; Ria Garnette A Buhat; Shane Kelly N Amoroso	Kian Xavier J. Agustin and Chad Henry S Cabalonga (Polytechnic University of the Philippines, Philippines); Isaac F. Esmale (Philippines); John Christian R. Valencia (Polytechnic University of the Philippines - Manila, Philippines); Michael Neo Angelo F Tinay (Polytechnic University of the Philippines-Manila, Philippines); Orland D Tubola (Polytechnic University of the Philippines, Philippines); Ria Garnette A Buhat (Polytechnic University of the Philippines- Manila, Philippines); Shane Kelly N Amoroso (Polytechnic University of the Philippines, Philippines)
3	1570936337	ADHD Mental Health Symptoms Detection Based on Facial Landmark Tracking	Christian Nash; Rajesh Nair; Syed Mohsen Naqvi	Christian Nash (Newcastle University, United Kingdom (Great Britain)); Rajesh Nair (CNTW-NHS Foundation Trust, United Kingdom (Great Britain)); Syed Mohsen Naqvi (Newcastle University, United Kingdom (Great Britain))
4	1570937982	Determine Traffic Accidents Based on Changes in Driving Patterns	Andi Syarwani, AS; Amil Ahmad Ilham; Syafaruddin Syafaruddin	Andi Syarwani, AS and Amil Ahmad Ilham (Universitas Hasanuddin, Indonesia); Syafaruddin Syafaruddin (Universitas Hasanuddin Makassar, Indonesia)
5	1570936827	Deep Learning-Based Classification of Duku Fruit Varieties (Lansium domesticum)	Agus Pratondo; Astri Novianty	Agus Pratondo and Astri Novianty (Telkom University, Indonesia)
6	1570940345	Analysis of Shear Strength Reduction Effect on Slope Stability Due to Expansive Soil Using Three-Dimensional Finite Element Method	Adhitya Yoga Purnama; Bayu Ilham Nasukha; Devi Oktaviana Latif; Pinta Astuti; Gumbert Maylda Pratama	Adhitya Yoga Purnama, Bayu Ilham Nasukha and Devi Oktaviana Latif (Universitas Gadjah Mada, Indonesia); Pinta Astuti (Universitas Muhammadiyah Yogyakarta, Indonesia); Gumbert Maylda Pratama (Universitas Atmajaya Yogyakarta, Indonesia)
7	1570941105	Analysis of Corroded Concrete Using Radiography Method	Ahmad Zaki; Tania Tasya Meutia; Ni Nyoman Kencanawati; Syarizal Fonna; Zainah Ibrahim	Ahmad Zaki and Tania Tasya Meutia (Universitas Muhammadiyah Yogyakarta, Indonesia); Ni Nyoman Kencanawati (University of Mataram, Indonesia); Syarizal Fonna (Universitas Syiah Kuala, Indonesia); Zainah Ibrahim (University of Malaya, Malaysia)
8	1570941110	Brain Tumor Evaluation Calculate Volume	Dwi Swasono Rachmad	Dwi Swasono Rachmad (Jl Melati III No 21 Kav Perwirasari RT 002 RW 008 Kelurahan Perwira Kec Bekasi Utara Kota Bekasi & PT ADA APA LAGI, Indonesia)
9	1570941179	5G Small Cell Design for Nusantara's Roadways	Fasya Tiarani; Anna Christina Situmorang; Dadang Gunawan	Fasya Tiarani, Anna Christina Situmorang and Dadang Gunawan (Universitas Indonesia, Indonesia)



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RO.3

Session Chair: Anna Nur Nazilah Chamim

Time: 10 August, 10.15-12.00 WIB

Link Zoom : https://bit.ly/Conference_Engineerings

No.	ID Paper	Title	Presenter	Authors
1	1570915922	Spinal disorders classification system based on the Hu and Zernike Moment Invariant and Machine Learning methods	Anna Nur Nazilah Chamim; Yessi Jusman; Ibnu Rahmat Siddik; Mohd Imran Yusof; Hasimah Ali; Siti Nurul Aqmariah Mohd Kanafiah	Anna Nur Nazilah Chamim, Yessi Jusman and Ibnu Rahmat Siddik (Universitas Muhammadiyah Yogyakarta, Indonesia); Mohd Imran Yusof (Universiti Sains Malaysia, Malaysia); Hasimah Ali (University Malaysia Perlis, Malaysia); Siti Nurul Aqmariah Mohd Kanafiah (Universiti Malaysia Perlis, Malaysia)
2	1570897766	Classification of Prostate Cancer Staging using VGG-19 and GoogLeNet Transfer Learning Models	Yessi Jusman; Shafa Cahyaningtyas; Feriandri Utomo	Yessi Jusman and Shafa Cahyaningtyas (Universitas Muhammadiyah Yogyakarta, Indonesia); Feriandri Utomo (Universitas Abdurrab, Indonesia)
3	1570931016	Predicting PM2.5 Levels Using AIoT Sensory Node in a Smart Campus Environment	Karisma Putra	Karisma Putra (Universitas Muhammadiyah Yogyakarta, Indonesia)
4	1570913133	Classification of Abnormalities in Spine Curvature Based on Shape Features using Machine Learning	Yessi Jusman; Masayu Alya Nuraini; Fikran Aulia; Anna Nur Nazilah Chamim; Siti Nurul Aqmariah Mohd Kanafiah; Mohd Imran Yusof	Yessi Jusman, Masayu Alya Nuraini, Fikran Aulia and Anna Nur Nazilah Chamim (Universitas Muhammadiyah Yogyakarta, Indonesia); Siti Nurul Aqmariah Mohd Kanafiah (Universiti Malaysia Perlis, Malaysia); Mohd Imran Yusof (Universiti Sains Malaysia, Malaysia)
5	1570936209	Neural Network Backpropagation Breast Cancer And Thyroid Classification System Using Scaled Conjugation Backpropagation, LavenbergMarquardt, and Bayesian Regularization	Yessi Jusman; Muhammad Albik Ghalela	Yessi Jusman (Universitas Muhammadiyah Yogyakarta, Indonesia); Muhammad Albik Ghalela (University of Muhammadiyah Yogyakarta, Indonesia)