

# ISMODE 2022

INTERNATIONAL SEMINAR ON MACHINE LEARNING, OPTIMIZATION, AND DATA SCIENCE

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## Program

Time	Breakout Room 1	Breakout Room 2	Breakout Room 3	Breakout Room 4	Breakout Room 5	Breakout Room 6	Breakout Room 7
Thursday, December 22							
07:45-08:00	Reg: <b>REGISTRATION</b>						
08:00-09:45	Plenary 1: <b>Opening Ceremony &amp; Plenary Session 1</b>						
09:45-12:00	1.1: <b>Parallel Session 1.1</b>	1.2: <b>Parallel Session 1.2</b>	1.3: <b>Parallel Session 1.3</b>	1.4: <b>Parallel Session 1.4</b>	1.5: <b>Parallel Session 1.5</b>	1.6: <b>Parallel Session 1.6</b>	1.7: <b>Parallel Session 1.7</b>
12:00-12:45	Lunch: <b>Lunch Break</b>						
12:45-14:45	2.1: <b>Parallel Session 2.1</b>	2.2: <b>Parallel Session 2.2</b>	2.3: <b>Parallel Session 2.3</b>	2.4: <b>Parallel Session 2.4</b>	2.5: <b>Parallel Session 2.5</b>	2.6: <b>Parallel Session 2.6</b>	2.7: <b>Parallel Session 2.7</b>
14:45-15:15	Break: <b>Break Time</b>						
15:15-16:45	Plenary 2: <b>Plenary Session 2, Awarding, and Closing</b>						
16:45-16:50	Sign Out: <b>Leave Zoom Meeting</b>						

Thursday, December 22

## Thursday, December 22 7:45 - 8:00 (Asia/Jakarta)

Reg: REGISTRATION

### Topic: 2022 2nd ISMODE Conference

Join Zoom Meeting

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Meeting ID: 982 3556 8474

Passcode: 2022

## Thursday, December 22 8:00 - 9:45 (Asia/Jakarta)

Plenary 1: Opening Ceremony & Plenary Session 1

Opening Greeting

National Anthem of Republic Indonesia: "Indonesia Raya"

Speech from The Committee as General Chair: Dr. Harjono P. Putro, ST, M.Kom

Speech from The Rector of Universitas Krisnadwipayana Jakarta Dr. Ir. Ayub Muktiono, M.SiP

Speech from The Foundation of Krisnadwipayana: Prof. Dr. Gayus Lumbun

Plenary Session 1 by Moderator

## 1st Plenary Speaker: Dr. Zilu Liang

Associate Professor at Kyoto University of Advanced Science, JAPAN

Discussion : Q & A

Closing and Photo Session

## Thursday, December 22 9:45 - 12:00 (Asia/Jakarta)

1.1: Parallel Session 1.1

Breakout Room 1

### 9:45 *Design of Smartdoor for Live Face Detection Based on Image Processing using Physiological Motion Detection* □

Casi Setianingsih (Telkom University, Indonesia)

### 10:00 *Vehicle Detection with YOLOv7 on Study Case Public Transportation and General Classification* □

Edi Johan Syah Djula and Rahadian Yusuf (Institut Teknologi Bandung, Indonesia)

### 10:15 *Linear Regression and Counterfactual Fairness* □

Aishwarya Asesh (Adobe, USA)

### 10:30 *Analog Digit Electricity Meter Recognition Using Faster R-CNN* □

Casi Setianingsih (Telkom University, Indonesia)

### 10:45 *Developed Histogram of Oriented Gradients-based Feature Extraction for Covid-19 X-Ray Image Classification* □

Yessi Jusman (Universitas Muhammadiyah Yogyakarta, Indonesia); Wikan Tyassari (University of Muhammadiyah Yogyakarta, Indonesia); Wignyo Nindita, Alif Jamil Hussein Harahap and Akbar Maulana Ismail (Universitas Muhammadiyah Yogyakarta, Indonesia)

### 11:00 *The Adoption of Information Threat at Social Media during COVID-19 using Modified Information Adoption Model* □

Irene Virtonia and Surjandy Surjandy (Bina Nusantara University, Indonesia)

### 11:15 *Using AI to Enhance Diversity and Scale in Facial Emotion Images for Children with Autism Spectrum Disorder* □

Krishnaveni Parvataneni (BASIS Independent Silicon Valley); Catherine Fang (Carnegie Mellon University, USA)

### 11:30 *Nutrition Control System In Nutrient Film Technique (NFT) Hydroponics With Convolutional Neural Network (CNN) Method* □

Fitriani Fitriani (Universitas Hasanuddin, Indonesia); Zahir Zainuddin (Hasanuddin University, Indonesia); Syafaruddin Syafaruddin (Universitas Hasanuddin Makassar, Indonesia)

### 11:45 *Development of Synthetic Data Benchmarks for Evaluating Feature Selection Algorithms* □

Rohan Mitra, Dara Varam, Eyad A Mohamed Ali and Hana Sulieman (American University of Sharjah, United Arab Emirates); Firuz Kamalov (Canadian University Dubai, United Arab Emirates)

1.2: Parallel Session 1.2

Breakout Room 2

### 9:45 *A Comparative Study of Five Machine Learning Algorithms for Anomaly-based IDS* □

Agung Septiadi and Erwin Nashrullah (National Research and Innovation Agency, Indonesia); Muhammad Arief (National Research and Innovation Agency & Badan Riset dan Inovasi Nasional, Indonesia); Junanto Prihantoro and Jemie Muliadi (National Research and Innovation Agency, Indonesia); Fandy R.A. Harahap and Kusnanda Supriatna (National Research and Innovation Agency - BRIN, Indonesia); Aris Suwarjono (National Research and Innovation Agency Indonesia, Indonesia)

**10:00 Optimization Multiresponse in Taguchi Method using DEA (Data Envelopment Analysis): Prediction and Applications to Water Quality** □

Galuh Kusuma Wardani, Muhammad Mashuri and Wibawati Wibawati (Institut Teknologi Sepuluh Nopember, Indonesia)

**10:15 Model of Continuous Usage of Mobile Payment** □

Doni Purnama Alamsyah (Bina Nusantara University, Indonesia); Norfaridatul Othman (Universiti Teknikal Malaysia Melaka, Malaysia); Ivan Diryana Sudirman (Bina Nusantara University, Indonesia); Didin Syarifuddin (Sekolah Tinggi Pariwisata Ars Internasional, Indonesia)

**10:30 Cervical Cancer Detection Application Using Edge Detection and Neural Network Method** □

Doni Purnama Alamsyah (Bina Nusantara University, Indonesia); Ricky Firmansyah (Universitas Adhirajasa Reswara Sanjaya, Indonesia); Yudi Ramdhani (ARS University, Indonesia); Habib Z Muttaqin (Universitas Adhirajasa Reswara Sanjaya, Indonesia); Nur Azmi Karim (BINUS Bandung School of Creative Technology, Indonesia)

**10:45 Dual Input Power System Stabilizer in Sulselrabar System Based on Mayfly Optimization Algorithm** □

Muhammad Ruswandi Djalal (Politeknik Negeri Ujung Pandang, Indonesia); Imam Robandi (Sepuluh November Institute of Technology, Indonesia)

**11:00 Detecting Most Influential Parameters in High Voltage Induction Motor Failure using Logistic Regression Analysis** □

Ahmad Masry B Zainol (Quest International University, Malaysia); Nurul Rawaida Ain Burhani (Quest International University Perak, Malaysia)

**11:15 Learning Causal Graphs with Bayesian Network from COVID-19 Patient Vital Signs** □

Nunung Nurul Qomariyah (Bina Nusantara University Jakarta, Indonesia); Teny Handhayani (Universitas Tarumanagara, Indonesia); Sri Dhuny Atas Asri (Pasar Minggu Hospital, Indonesia); Dimitar Kazakov (University of York, United Kingdom (Great Britain))

**11:30 Multivariate Fuzzy T<sup>2</sup> Hotelling Control Chart With Alpha-Cut Using Trapezoidal Fuzzy Number (TrFN) and Its Application** □

Nur Rezky Safitriani, Muhammad Mashuri and Wibawati Wibawati (Institut Teknologi Sepuluh Nopember, Indonesia)

**11:45 Bitcoin Price Prediction Using Long Short Term Memory Algorithm** □

Ali Khumaidi (University of Krisnadwipayana, Indonesia); Panji Kusmanto (Universitas Krisnadwipayana, Indonesia); Nur Hikmah (Krisnadwipayana, Indonesia)

1.3: Parallel Session 1.3

Breakout Room 3

**9:45 Markov Switching Process Monitoring Brain Wave Movement in Autism Children** □

Muhammad Riefky and Nur Iriawan (Institut Teknologi Sepuluh Nopember, Indonesia); Santi Wulan Purnami (Sepuluh Nopember Institute of Technology, Indonesia); Wardah Rahmatul Islamiyah (Airlangga University, Indonesia)

**10:00 Cluster Relabelling-based Classification for Single Tuition Fee Determination in Public University** □

Wiyli Yustanti (Universitas Negeri Surabaya, Indonesia); Nur Iriawan and Irhamah Irhamah (Institut Teknologi Sepuluh Nopember, Indonesia)

**10:15 idT5: Indonesian Version of Multilingual T5 Transformer** □

Mukhlis Fuadi (Institut Teknologi Sepuluh Nopember & Universitas Islam Negeri Maulana Malik Ibrahim Malang, Indonesia); Adhi Dharma Wibawa (Institut Teknologi Sepuluh Nopember, Indonesia); Surya Sumpeno (Institut Teknologi Sepuluh Nopember (ITS), Indonesia)

**10:30 Forecasting Number of Foreign Tourist Arrivals Using Time Series Intervention Analysis Based on Log-Linear Poisson AR and Poisson Autoregressive** □

Veniola Forestryani, Hidayatul Khusna and Agus Suharsono (Institut Teknologi Sepuluh Nopember, Indonesia)

**10:45 Vision-based Real-Time Disaster Recognition Monitoring System using Raspberry Pi and Deep Learning Model** □

Daryl B. Valdez, Rey Anthony G. Godmalin and Allan Josephus M. Bunga (Bohol Island State University - Clarin Campus, Philippines)

**11:00 Sentiment Analysis of Digital Korlantas POLRI Application Reviews on Google Play Store** □

Vien Aulia Rahmatika (University of Indonesia, Indonesia); Yova Ruldeviyani (Universitas Indonesia, Indonesia)

**11:15 A Short Masked Face Detection Review With Recent Advanced Deep Learning Approaches** □

Khanh Le Dinh Viet, Khiem Le Ha and Trung Nguyen Quoc (FPT University, Vietnam); Vinh Truong Hoang (Ho Chi Minh City Open University, Vietnam)

**11:30 Virtual Try-On Based on Key Points Detection and Human Pose Estimation** □

Khang Nguyen Hoang Gia, Nhat Nguyen Minh and Trung Nguyen Quoc (FPT University, Vietnam); Vinh Truong Hoang (Ho Chi Minh City Open University, Vietnam)

**11:45 Application of Artificial Intelligence in The Diagnosis of Cancer** □

Maria Susan Anggreainy, Ferdinand Ariandy Luwinda and Dwi Nurmelly Handayani (Bina Nusantara University, Indonesia)

1.4: Parallel Session 1.4

Breakout Room 4

**9:45 The Influence of Fear of Missing Out On University Students' Academic Performance During COVID-19 Pandemic Based On Stressor-Strain-Outcome Model** □

Angellie Angellie (Binus University, Indonesia); Elsanita Tifani Kangliesky (BINUS University, Indonesia); Surjandy Surjandy (Bina Nusantara University, Indonesia)

**10:00 Implementation of Efficient High Utility Itemset Algorithm To Find High Utility Itemset on SuperstoreSales Data** □

Ridowati Gunawan and Dharu Jiwo Pambudi (Sanata Dharma University, Indonesia)

**10:15 Interval Estimation of Nonparametric Regression Curve Fourier Series (Case Study Data of Poverty in East Java Province 2021)** □

Idrus Syahzaqi, Jerry Dwi Trijoyo Purnomo and I Budiantara (Institut Teknologi Sepuluh Nopember, Indonesia)

**10:30 Modeling Clustering of Health Facility and Disease Distribution in Indonesia** □

Derwin Suhartono, Kelvin A Minor, Erna Fransisca Angela Sihotang and Andry Chowanda (Bina Nusantara University, Indonesia)

**10:45 Modeling and Classification Multicollinear Data using Multinomial Ridge Logistic Regression with the Wu-Asar Approach** □

Giatma Dwijuna Ahadi, Ismaini Zain and Santi P Rahayu (Institut Teknologi Sepuluh Nopember, Indonesia)

**11:00 Source Code Detection Based on Code Oriented Features for Arbitrary Input** □

Yun Liu (China Electronics Technology Group Corporation Limited, China); Wei Zhang (University of Electronic Science and Technology of China, China); Feng Yu (Institute of Cyberspace Security, China Electronic Technology Cyber Security Co. Ltd, China); Zhouong Zheng (China Electronics Technology Group Corporation, China); Zhi Chai (First Research Institution of the Ministry of Public Security, China)

**11:15 Comparison of Decision Tree and K-Nearest Neighbors Methods on Classifying Household Electrical Appliances Based on Electricity Usage Profiles** □

Muhammad Ary Murti, Andi Shridivia Nuran, Muhammad Hablul Barri, Faisal Budiman and Musrinah Rina (Telkom University, Indonesia)

**11:30 Cryptography on Foveal Avascular Zone (FAZ) Images Using The Vigenere Cipher Algorithm** □

Dewi Purnamasari (Ivet University, Indonesia); Jumrianto Jumrianto, Jr (IVET University Semarang, Indonesia & Muhammadiyah University Semarang (UNIMUS), Indonesia); Nindita Erwanti (IVET University Semarang, Indonesia)

**11:45 Execution Examination of distinctive edge detection Algorithms** □

Israt Zarin (American International University-Bangladesh, Bangladesh); Ahsan UI Islam (Sam Houston State University, Bangladesh); Nagib Mahfuz (AIUB, Bangladesh); Sarnali Basak (Jahangirnagar University, Bangladesh); Mehrab Mustafy Rahman (Islamic University of Technology, Bangladesh); Kazi Sazzad Hosen (AIUB, Bangladesh)

1.5: Parallel Session 1.5

Breakout Room 5

**9:45 Classification of Nominal Exchange Rate with Multilayer Perceptron using MAPE and Detection Rate Model** □

Al-Khowarizmi Al-Khowarizmi, Halim Maulana, FatmaSari Hutagalung and Muhammad Basri (Universitas Muhammadiyah Sumatera Utara, Indonesia); Arif Ridho Lubis (Politeknik Negeri Medan, Indonesia)

**10:00 Dynamic Model to Increase the Efficiency and Affordability of Transport System** □

Erma Suryani and Rully Hendrawan (Institut Teknologi Sepuluh Nopember, Indonesia); Philip Faster Eka Adipraja (Institut Teknologi Dan Bisnis Asia Malang, Indonesia); Basuki Widodo (Sepuluh Nopember Institute of Technology, Indonesia); Ulfa Rahmawati (Politeknik Negeri Jember, Indonesia); Ariani Dwi Wulandari (Institution of Sepuluh Nopember, Indonesia); Shuo-Yan Chou (National Taiwan University of Science and Technology, Indonesia)

**10:15 Exploring Configurations of Social Media and Good Governance for e-Government Participation: A Fuzzy Set Qualitative Comparative Analysis** □

Marlan Hutahaeen and Ixora Javanisa Eunike (Universitas HKBP Nommensen, Indonesia); Andri Dayarana K. Silalahi (Chaoyang University of Technology, Taiwan & University of HKBP Nommensen, Indonesia)

**10:30 Data Analytics for Procurement Evaluation and Analysis (Case Study in Organization X)** □

Verry Dina Aromy and Achmad Choiruddin (Institut Teknologi Sepuluh Nopember Surabaya, Indonesia)

**10:45 Data Consistency in Microservices with Orchestration-based Saga Pattern** □

Yoga Ari Tofan, Hudan Studiawan and Hadziq Fabroyir (Institut Teknologi Sepuluh Nopember, Indonesia)

**11:00 Logistic Regression Approach with Rare Event Weighted Methods for Imbalanced Data (Case Study: Child Participation in Economic Activities in Southeast Sulawesi)** □

Regina Hayden Sagita and Ismaini Zain (Institut Teknologi Sepuluh Nopember, Indonesia); Vita Ratnasari (Institut Teknologi Sepuluh Nopember Surabaya, Indonesia)

**11:15 Autonomous Intelligent Software Development** □

Mark Matties (The Johns Hopkins University Applied Physics Laboratory, USA)

**11:30 Precision Analysis on Automatic Writing Machine Using Arduino (Case Study: Printer Plotter)** □

Rama Dhana, Hilal H. Nuha and Muhammad Faris Fathoni (Telkom University, Indonesia)

**11:45 Docker and Kubernetes Pipeline for DevOps Software Defect Prediction with MLOps Approach** □

Rizal Broer Bahaweres (UIN Jakarta - IPB University, Indonesia & Computer-iEEE, Indonesia); Aldi Zulfikar (Syarif Hidayatullah State Islamic University Jakarta, Indonesia)

1.6: Parallel Session 1.6

Breakout Room 6

**9:45 Coordination PID-PSS Control Based on Ant Colony Optimization In Sulselrabar System**

□

Muhammad Rais Rais (University Patria Artha, Indonesia); Muhammad Ruswandi Djalal (Politeknik Negeri Ujung Pandang, Indonesia); Veronika Asri Tandirerung (Makassar State University, Indonesia); Rosihan Aminuddin (University of Patria Artha, Indonesia); Irwan Syarif (Patria Artha University, Indonesia); Rosmiati Rosmiati (Cokroaminoto Palopo University, Indonesia)

**10:00 A Cost-Minimization approach to Automobile Insurance Fraud Detection** □

Navin R Ramesar (University of the West Indies, Trinidad and Tobago); Shiva R Ramoudith (The University of The West Indies, Trinidad and Tobago); Nirvan Sharma (University of West Indies, Trinidad and Tobago); Patrick Hosein (The University of the West Indies, Trinidad and Tobago)

**10:15 Ensemble Voting Models for Classification Leaves of Medicinal Plants** □

Amriana Amriana (Hasanuddin University & Tadulako University, Indonesia); Amil Ahmad Ilham and Andani Achmad (Hasanuddin University, Indonesia); Yusran Yusran (Universitas Hasanuddin, Indonesia)

**10:30 Implementation of Real-Time Sound Source Localization using TMS320C6713 Board with Interaural Time Difference Method** □

Yuri Pamungkas (ITS Surabaya, Indonesia); Yahya Rais (Institut Teknologi Sepuluh Nopember, Indonesia)

**10:45 Classification of Emotions (Positive-Negative) Based on EEG Statistical Features using RNN, LSTM, and Bi-LSTM Algorithms** □

Yuri Pamungkas (ITS Surabaya, Indonesia); Yahya Rais (Institut Teknologi Sepuluh Nopember, Indonesia)

**11:00 Air Pollution Index Forecasting Model using Automated Machine Learning** □

Hanafi Majid (UTM, Malaysia); Syahid Anuar (Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia); Noor Hafizah Hassan (Advanced Informatics School, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia)

**11:15 A Novel Framework for Cervical Cancer Diagnosis based on Artificial Intelligence in Indonesia** □

Chandra Prasetyo Utomo, Muhamad Fathurahman, Ahmad Rusdan Utomo, Yulia Suciati, Nunung Ainur Rahmah, Indra Kusuma, Muhamad Rifqi and Rangga Pujangga (Universitas YARSI, Indonesia)

**11:30 Analysis of factors influencing purchase intention in live shopping activity based on stimulus-organism-response theory** □

Yuan Aulia Rahma (Brawijaya University & Computer Science Departement, Indonesia); Aryo Pinandito (Brawijaya University & Faculty of Computer Science, Indonesia); Diah Priharsari (Universitas Brawijaya, Indonesia)

**11:45 Field Programmable Gate Arrays-Based Design of Electrical Power Measurement using Goertzel Algorithm** □

Ferry Wahyu Wibowo (Universitas Amikom Yogyakarta, Indonesia); Wihayati Wihayati (Satya Wacana Christian University, Indonesia)

1.7: Parallel Session 1.7

Breakout Room 7

**9:45 The Use of K-NN with Hand Keypoints Detection Based on SIBI Standard** □

Anik Nur Handayani and Muhammad Akbar (Universitas Negeri Malang, Indonesia); Harits Ar Rosyid (State University of Malang, Indonesia); Muhamad Arifianto (Universitas Negeri Malang, Indonesia); Rosa Andrie Asmara (Politeknik Negeri Malang, Indonesia); Osamu Fukuda (Saga University, Japan)

**10:00 Robot Boat Prototype System Based on Image Processing for Maritime Patrol Area** □

Anik Nur Handayani (Universitas Negeri Malang, Indonesia); Ferina Ayu Pusparani (State University of Malang, Indonesia); Dyah Lestari and I Made Wirawan (Universitas Negeri Malang, Indonesia); Osamu Fukuda (Saga University, Japan); Aqil Aqthobirrobby (Universitas Gadjah Mada & Universitas Negeri Malang, Indonesia)

**10:15 Bi-LSTM price prediction based on attention mechanism** □

Jiashu Lou, Leyi Cui and Ye Li (ShenZhen University, China)

**10:30 The Usage of Ensemble Model Output Statistics for Calibration and Short-term Weather Forecast** □

Fajar Dwi Cahyoko (Institut Teknologi Sepuluh Nopember, Indonesia); Sutikno Sutikno (Institut Teknologi Sepuluh Nopember Surabaya, Indonesia); Purhadi Purhadi (Sepuluh Nopember Institute of Technology, Indonesia)

**10:45 Acute Respiratory Infections (ARI) Prediction In Children Under Five Years Using A Support Vector Machine** □

Reynata Tri Damayanti (Sepuluh Nopember Institute of Technology (ITS), Indonesia)

**11:00 A Hybrid Model to Enhance The Performance of Classifier in Financial Distress Prediction** □

Mukti Ratna Dewi and Destri Susilaningrum (Institut Teknologi Sepuluh Nopember, Indonesia)

**11:15 Service Time Estimation of Information Technology Center using Gaussian Process Regression** □

Aulia Maharani and Hilal H. Nuha (Telkom University, Indonesia)

**11:30 GUI Test Automation Studies: Selenium IDE, UiPath Studio, Katalon Studio** □

Rizal Broer Bahaweres (UIN Jakarta - IPB University, Indonesia & Computer-iEEE, Indonesia); Nurul Uswatun Hasanah ( & UIN Jakarta, Indonesia)

**Thursday, December 22 12:00 - 12:45 (Asia/Jakarta)**

Lunch: Lunch Break

**Thursday, December 22 12:45 - 14:45 (Asia/Jakarta)**

## 2.1: Parallel Session 2.1

### Breakout Room 1

#### **12:45 Estimation of Air Quality Parameters using Lightweight Machine Learning on Low-cost Edge-IoT Architectures** □

Jose-Carlos Gamazo-Real (Universidad Politécnica de Madrid, Spain)

#### **13:00 Resolution and Field of View Unification of Retinal Fundus Images for the Automated Diagnosis of Diabetic Retinopathy** □

Samer I. Awad, Yazan Gharaibeh, Abeer Obeid and Sari Awwad (The Hashemite University, Jordan)

#### **13:15 Curve-Based Depth Map Image Adjustment for Eyeball Phantom Measurement** □

Octa Heriana (National Research and Innovation Agency - BRIN, Indonesia); Andriyan B. Suksmono (Bandung Institute of Technology, Indonesia); Hasballah Zakaria (ITB, Indonesia); Andika Prahasta (Padjajaran University, Indonesia)

#### **13:30 Parameter Estimation and Hypothesis Testing on Geographically & Temporally Weighted Bivariate Log-Normal Regression Models** □

Sindi Wahyu Pratiwi (Institut Teknologi Sepuluh Nopember, Indonesia); Purhadi Purhadi (Sepuluh Nopember Institute of Technology, Indonesia); Bambang Otok (Institut Teknologi Sepuluh Nopember, Indonesia)

#### **13:45 Development Of Fuzzy Multivariate Exponentially Weighted Moving Average Control Chart With Alpha Level Cut** □

Morina A. Fathan, Hidayatul Khusna and Wibawati Wibawati (Institut Teknologi Sepuluh Nopember, Indonesia)

#### **14:00 Detecting Bots and Measuring their Influence** □

Ian Corcoran (Atlantic Technical University Donegal, Ireland); Kevin Meehan (Atlantic Technological University, Ireland)

#### **14:15 Combination of Existing Transformer and Newly Placed Transformer for Optimal Electric Power Distribution System** □

Hadi Sutanto Saragi (Del Institute of Technology, Indonesia); Reynold Pardede (PT PLN (Persero), Indonesia); Wesly Siagian, Iswanti Sihalohe and Santi Agustina Manalu (Del Institute of Technology, Indonesia)

#### **14:30 Electric Vehicle Lateral Stability Control Design Based on Brake-By-Wire System Using Fuzzy-SMC** □

Ferda Saepulah and Ari Santoso (Institut Teknologi Sepuluh Nopember, Indonesia)

## 2.2: Parallel Session 2.2

### Breakout Room 2

#### **12:45 Rug Classification with YOLOv5: Handmade vs Machine-Made** □

Hisham Ashraf Makhdomi, Mamoon Khursheed and Abban Qureshi (University of Kashmir, India)

#### **13:00 An Experimental Study of How Virtual Tour Impact On Intention To Visit Tourism Destination Flores Island** □

Martinus Fieser Sitinjak (Bina Nusantara University, Indonesia); Azizah Omar (USM, Malaysia); Yopy Maulana (Bina Nusantara University, Indonesia)

#### **13:15 Elitist Genetic Algorithm and Elitist Ant Colony Optimization on Resource Scheduling in Field Cloud Manufacturing** □

Hamdy Nur Saidy (Universitas Hasanuddin, Indonesia); Amil Ahmad Ilham (Hasanuddin University, Indonesia); Syafaruddin Syafaruddin (Universitas Hasanuddin Makassar, Indonesia)

#### **13:30 Sentiment Analysis of Indonesian Government Policy using Support Vector Machine-Word2Vec** □

Styawati Styawati and Andi Nurkholis (Universitas Teknokrat Indonesia, Indonesia); Edi Winarko (Universitas Gadjah Mada, Indonesia); Yuri Rahmanto, Muhammad Arla Reza and Izudin Ismail (Universitas Teknokrat Indonesia, Indonesia)

#### **13:45 Land Cover Change Detection around Upstream of Serayu Watershed using Machine Learning** □

Zilda Dona Okta Permata and Dionysius Bryan Sencaki (National Research and Innovation Agency, Indonesia); Afifuddin Afifuddin (The National Research and Innovation Agency of Indonesia (BRIN), Indonesia); Marina Frederik (National Research and Innovation Agency (BRIN) & Former Affiliation: Badan Pengkajian dan Penerapan Teknologi (BPPT), Indonesia); Hari Priyadi (National Research and Innovation Agency, Indonesia); Mega Novetrishka Putri (Agency for the Assessment and Application of Technology, Indonesia); Siti Arfah (National Research and Innovation Agency, Indonesia); Agustan Agustan (Agency for the Assessment and Application of Technology (BPPT) & PTPSW-BPPT, Indonesia); Fauziah Alhasanah (Agency for Assessment and Application of Technology (BPPT), Indonesia); Lena Sumargana (National Research and Innovation Agency (BRIN), Indonesia); Robby Arifandri and Nico Anatoly (National Research and Innovation Agency, Indonesia)

#### **14:00 Power Monitoring System for 3-Phase Electric Motors Using IoT-Based Current Transformers and Potential Transformers** □

Moh Afandy (Politeknik Industri Logam Morowali, Indonesia)

#### **14:15 Sentiment Analysis Model to Boost Up the Bitcoin Prices with Selected Tweets** □

Ardelia Shaula Araminta, Raphael Reynaldi and Sri Kalyan Rohan (Bina Nusantara University, Indonesia); Nunung Nurul Qomariyah (Bina Nusantara University Jakarta, Indonesia)

#### **14:30 Gray-Level Co-Occurrence Matrix and Geometric Shape for Classification of Rubber Tree Maturity** □

Wanvy Arifha Saputra and Inayatul Ulya Ahyati (Politeknik Negeri Banjarmasin, Indonesia); Andhik Ampuh Yunanto (Politeknik Elektronika Negeri Surabaya, Indonesia); Syamsudin Noor and Arifin Noor Asyikin (Politeknik Negeri Banjarmasin, Indonesia); Dimas Fanny Hebrasianto Permadi (Institut Teknologi Telkom Purwokerto, Indonesia)

## 2.3: Parallel Session 2.3

### Breakout Room 3

- 12:45 Deep Tiny Quantization for Fish-Eye Distorted Object Classification** □  
Danilo Pietro Pau (STMicroelectronics, Italy); Marc Dimbiniaina Randriatsimiovalaza (Universita Degli Studi di Trento, Italy); Alessandro Carra (STMicroelectronics, Italy); Marco Garzola (Italy)
- 13:00 Decentralized Intersection Control Using Bayesian Game Theory** □  
Nicola Bastianello (KTH Royal Institute of Technology, Italy); Leonardo Badia (Università degli Studi di Padova, Italy)
- 13:15 Partial Hypothesis Testing of Parameter in Spline Truncated Nonparametric Regression for Longitudinal Data** □  
Widya Amalia Rahma, I Budiantara and Ismaini Zain (Institut Teknologi Sepuluh Nopember, Indonesia)
- 13:30 Simultaneous Hypotheses Testing on Mixed Nonparametric Regression of Spline Truncated and Fourier Series** □  
Rizky Nur'aini and I Budiantara (Institut Teknologi Sepuluh Nopember, Indonesia); Santi Wulan Purnami (Sepuluh Nopember Institute of Technology, Indonesia)
- 13:45 Random Sparse Approximation for a Fast and Scalable Gaussian Process** □  
Muluken Regas Eressa (9 Avenue, France); Hakim Badis (UPEM, France)
- 14:00 Automatic Content Ranking Based on Twitter Trending Hashtags** □  
Pakinwet Saksamerprom and Sukree Sinthupinyo (Chulalongkorn University, Thailand)
- 14:15 Mining Textual Radiology Reports in Indonesian Language using Named Entity Recognition for COVID-19** □  
Ardelia Shaula Araminta, Raphael Reynaldi and Monique Senjaya (Bina Nusantara University, Indonesia); Nunung Nurul Qomariyah (Binus International University, Indonesia); Sri Dhuny Atas Asri (Pasar Minggu Hospital, Indonesia); Dimitar Kazakov (University of York, United Kingdom (Great Britain))
- 14:30 Indonesian Sign Language (SIBI) Translation System For The Deaf People Using Mediapipe And Gated Recurrent Unit Method** □  
Ahmad Fitrah Ramadhan, Amil Ahmad Ilham and Ingrid Nurtanio (Hasanuddin University, Indonesia); Ridwang Ridwang (Universitas Hasanuddin, Indonesia)

### 2.4: Parallel Session 2.4

#### Breakout Room 4

- 12:45 Joint Learning of Topology and Invertible Nonlinearities from Multiple Time Series** □  
Kevin Roy, Luis M. M. Lopez-Ramos and Baltasar Beferull-Lozano (University of Agder, Norway)
- 13:00 Self-Service Kiosk Technology at Fast Food Restaurant: The Role of Expectancy and Motivation** □  
Rachel Dyah Wiastuti (Bina Nusantara University, Indonesia)
- 13:15 Data transformation techniques: comparative analysis** □  
Firuz Kamalov (Canadian University Dubai, United Arab Emirates); Sherif Moussa (Canadian University of Dubai, United Arab Emirates); Jorge Avante Reyes (Bosch AG, Germany)
- 13:30 Optimal order policy using firefly algorithm** □  
Zoubida Benmamoun (Liwa College of Technology, United Arab Emirates); Mariam Elkhechafi (University of Ibntofail, Morocco); Houda Benchekroun (Sultan Moulay Slimane University, United Arab Emirates); Widad Fethallah (Abdelmalek Essaadi University, United Arab Emirates); Samia Bouazza and Kamilia Filali (Sultan Moulay Slimane University, United Arab Emirates)
- 13:45 Simple but effective: random sampling for medical imbalanced data** □  
Firuz Kamalov (Canadian University Dubai, United Arab Emirates); Sherif Moussa (Canadian University of Dubai, United Arab Emirates); Jorge Avante Reyes (Bosch AG, Germany)
- 14:00 Implementing a Reduction Clause to Overcome Critical Section Deficiencies in Parallel Computing** □  
Sadly Syamsuddin and Ahyuna Ahyuna (Universitas Dipa Makassar, Indonesia); Jufri Jufri (STMIK Dipanegara Makassar & AeU, Indonesia); Baharuddin Rahman, Risnayanti Andi Djamro and Asmah Akhriana (Universitas Dipa Makassar, Indonesia)
- 14:15 The Impact of 360-degree Images in Virtual Laboratory on The Engagement Levels of Indonesian Vocational High Schools Students** □  
Indra Prawira (Bina Nusantara University); Mariko Rizkiansyah, Riana Jogi Ahdaereni, Arleen Ariestyani and Siti Nahdiah (Bina Nusantara University, Indonesia)
- 14:30 Correlation between Positive Sentiment Twitter Mention and Number of Citations in TOP of 50 Altmetrics** □  
Adian Fatchur Rochim, Amara Ranindhita and Dania Eridani (Diponegoro University, Indonesia)

### 2.5: Parallel Session 2.5

#### Breakout Room 5

- 12:45 Modeling and Predicting Saudi Crude Oil Production Using Artificial Neural Networks (ANN) and Some Others Predictive Techniques** □  
Ali Alarjani (Prince Sattam Bin Abdulaziz University KSA, Saudi Arabia); Teg Alam (Prince Sattam bin Abdulaziz University, Saudi Arabia); Ahmed Kineber (Prince Sattam Bin Abdulaziz University, Saudi Arabia)
- 13:00 Prediction of Telecommunication Company Stock Price using Multiple Linear Regression** □  
Parjito Parjito and Zaenal Abidin (Universitas Teknokrat Indonesia, Indonesia); Permata Permata (University of Teknokrat, Indonesia); Imam Ahmad (Universitas Teknokrat Indonesia, Indonesia)
- 13:15 Classification of Ornamental Plants with Convolutional Neural Networks and MobileNetV2 Approach** □  
Parjito Parjito and Faruk Ulum (Universitas Teknokrat Indonesia, Indonesia); Kurnia Muludi (Universitas Lampung, Indonesia); Zaenal Abidin and Risa Meidiana Alma (Universitas Teknokrat Indonesia, Indonesia); Permata Permata (University of Teknokrat, Indonesia)
- 13:30 IPCA-SAMKNN: A Novel Network IDS for Resource Constrained Devices** □

Promise R Agbedanu and Richard Musabe (University of Rwanda, Rwanda); James Rwigema (University of Rwanda & Collage of Science and Technology, Rwanda); Ignace Gatare (University of Rwanda, Rwanda); Yanis Pavlidis (Google, USA)

**13:45 Prediction Model For Toddler Nutrition Using C5.0 Algorithm** □

Andi Nurkholis and Styawati Styawati (Universitas Teknokrat Indonesia, Indonesia); Imas Sukaesih Sitanggang (Bogor Agricultural University, Indonesia); Anna Riyani, Naufal Fadhilah and Zahra Kharisma Sangha (Teknokrat Indonesia University, Indonesia)

**14:00 Analysis of Weather Data for Rainfall Prediction using C5.0 Decision Tree Algorithm** □

Andi Nurkholis and Styawati Styawati (Universitas Teknokrat Indonesia, Indonesia); Vega Purwayoga and Hen Hen Lukmana (Universitas Siliwangi, Indonesia); Agung Prihandono and Wawan Koswara (Universitas Teknokrat Indonesia, Indonesia)

**14:15 K-Mean Clustering for Debtor Classification Based on Credit Risk Grading Matrix** □

Sugianto Sugianto, Yohana Dewi Lulu Widyasari and Kartina Wardhani (Politeknik Caltex Riau, Indonesia)

**14:30 e-Socialization of sustainable development goals (SDGs) for the first indicator (no poverty) through the knowledge management system** □

Wahyu Sardjono (BINA NUSANTARA University, Indonesia); Widhilaga Gia Perdana (University of State Jakarta, Indonesia); Achmad Choludin (University of Muhammadiyah Jakarta, Indonesia)

2.6: Parallel Session 2.6

Breakout Room 6

**12:45 Stereo Camera Calibration For Autonomous Car Applications** □

Muhammad Abdillah Rahmat, Indrabayu Indrabayu and Andani Achmad (Hasanuddin University, Indonesia); A. Ejah Salam (Universitas Hasanuddin, Indonesia); Muhammad Fadhil Bin Bahrunnida (Hasanuddin University, Indonesia)

**13:00 Indian Air Quality Prediction and Analysis using K-means Clustering** □

Baljeet Kaur (Symbiosis International Deemed University & Symbiosis Institute of Computer Studies and Research, Pune. India, India); Jatinderkumar R. Saini (Symbiosis Institute of Computer Studies and Research, India)

**13:15 Intelligent Optimization Using Crazyess Particle Swarm on Permanent Magnet Synchronous Motor** □

Machrus Ali (Universitas Darul Ulum & Institut Teknologi Sepuluh Nopember, Indonesia); Muhammad Ruswandi Djalal (Politeknik Negeri Ujung Pandang, Indonesia); Hidayatul Nurohmah (Universitas Darul Ulum, Jombang, Indonesia); Rukslin Rukslin (Universitas Darul Ulum & Universitas Islam Sultan Agung, Indonesia)

**13:30 MHfit: Mobile Health Data for Predicting Athletics Fitness Using Machine Learning Models** □

Jonayet Miah and Muntasir Mamun (University of South Dakota, USA); Md Ishtyaq Mahmud (Central Michigan University, USA); Md Minhazur Rahman, Sabbir Ahmad and Md Hasan Bin Nasir (University of South Dakota, USA)

**13:45 Monitoring System Behavior In The Use Of Electrical Equipments Iot-Based Smart Home** □

Syafruddin Syarif and Zahir Zainuddin (Hasanuddin University, Indonesia); Iqbal Faturachman Usman (Universitas Hasanuddin, Indonesia)

**14:00 Hidden Object Recognition using Convolutional Nueral Network** □

Narmeen H Fathi, Younis M Abbosh and Dia Ali D (Ninevah University, Iraq)

**14:15 Comparison of the Classification Algorithm for the Impact of Covid-19 on Students' Education, Social Life, and Mental Health** □

Wargijono Utomo (Krisnadwipayana University, Indonesia); Ali Khumaidi (University of Krisnadwipayana, Indonesia)

**14:30 Performance profile to refine analysis of machine learning models** □

Vinasetan Houndji (University of Abomey-Calavi & MIFY SARL, Benin); D. Chryzal Beaudelaire Zossou (University of Abomey-Calavi, Benin)

2.7: Parallel Session 2.7

Breakout Room 7

**Thursday, December 22 14:45 - 15:15 (Asia/Jakarta)**

Break: Break Time

**Thursday, December 22 15:15 - 16:45 (Asia/Jakarta)**

Plenary 2: Plenary Session 2, Awarding, and Closing

Plenary Session 2 by Moderator:

**2nd Plenary Speaker: Associate Prof. Dr. Mario Casillo**

University of Salerno, ITALY

**3rd Plenary Speaker: Associate Prof. Dr. Domenico Santaniello**

University of Salerno, ITALY

Discussion : Q & A

Awarding Best Papers

Closing and Photo Session



**Thursday, December 22 16:45 - 16:50 (Asia/Jakarta)**

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# International Seminar on Machine Learning, Optimization, and Data Science

JAKARTA - INDONESIA, 22-23 DECEMBER 2022

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# ISMODE

INTERNATIONAL SEMINAR ON  
MACHINE LEARNING &  
OPTIMIZATION &  
DATA SCIENCE

We inform you that the Universitas Krisnadwipayana Indonesia will organize the 2022 2nd International Seminar on Machine Learning, Optimization, and Data Science (ISMODE). This conference will be held **VIRTUALLY** at 22 December 2022 from Jakarta, Indonesia. This conference will be connection to the most influential ideas and systems in the field of Machine Learning, Optimization, and Data Science.

Join us at The 2022 2nd ISMODE and contribute to the research-led exploration and discussion of the current, development, and emerging state of the Machine Learning, Optimization, and Data Science.

We invite submissions in all areas of machine learning, optimization, and data science. In particular, we encourage submissions related to the conferences. Papers related to this conference theme are divided into 7 tracks, but not limited to the following technical areas.

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1st ISMODE 2021 : <https://ieeexplore.ieee.org/xpl/conhome/9741823/proceeding>

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# The 2022 2nd ISMODE will be held VIRTUALLY

### Big Data Foundations

- Foundational theoretical or computational models for big data
- Programming models, theories, and algorithms for big data
- Standards, protocols, and quality assurance for big data

### Integrated and Distributed Systems

- Foundational theoretical or computational models for big data
- Programming models, theories, and algorithms for big data
- Standards, protocols, and quality assurance for big data
- Sensor networks, IoT, Smart systems

### Big Data Analytics and Mining

- Algorithms and systems for big data search and analytics
- Machine learning for big data
- Predictive analytics and simulation
- Big data visualization and interactive data exploration
- Big data mining applications
- Knowledge extraction, discovery, analysis, and presentation

### Artificial Intelligence, Automation and Control

- NC programming technology
- Mechatronics System Engineering
- Intelligent Instrumentation and Detection Technology
- Automation in Mechanical Manufacturing
- Automation Control System
- Artificial Intelligence and Machine Learning
- Intelligent System Design
- Intelligent Decision Support
- Intelligent Robot

### Big Data Platforms and Technologies

- Innovative, concurrent, and scalable big data platforms
- Data indexing, cleaning, transformation, and curation technologies
- Big data processing frameworks and technologies
- Big data services and application development methods and tools
- Big data quality evaluation and assurance technologies

### Big Data and Machine Learning Applications and Experiences

- Innovative big data applications and services in industries and domains e.g. healthcare, finance, insurance, transportation, agriculture, education, environment, multi-media, social networks, urban planning, disaster management, security
- Big data analytics in the public sector

- Big data system reliability, dependability, and availability
- Open-source development and technology for big data
- Big Data as a Service (BDaaS) platform and technologies
- Big data search (architecture, algorithms, scalability)
- Large-scale recommendation systems
- Link and graph mining, social network mining
- Mobility and big data
- Stream data mining
- Experiences and case studies of big data applications and services
- Real-world and large-scale practices of big data

## Machine Learning

- Active Learning
- Case-based Reasoning
- Classification
- Cost-Sensitive Learning
- Data Mining
- Deep Learning
- Ensemble Methods
- Evolutionary Computation
- Feature Selection/Construction
- Kernel Methods
- Learning Graphical Models
- Learning Preferences or Rankings
- Learning Theory
- Machine Learning
- Neural Networks
- Online Learning
- Reinforcement Learning
- Relational Learning
- Semi-Supervised/Unsupervised Learning
- Structured Learning
- Time-series/Data Streams
- Transfer, Adaptation, Multi-task Learning

# Plenary Speakers

[Dr. Zilu Liang](#)

Kyoto University of Advanced Science,  
JAPAN

[Dr. Mario Casillo](#)

University of Salerno, ITALY

Dr. Domenico Santaniello  
University of Salerno, ITALY

## IMPORTANT DATE



### ★★★★Deadline★★★★

Full Papers Submission: **23 October 2022**

Acceptance Notification: **23 November 2022**

Payment Registration Deadline: **1 December 2022**

Upload Final Manuscript Deadline: **5 December 2022**

Conference Day: **22-23 December 2022**

**CONFERENCE will be held VIRTUALLY**

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