

## The 6th International Conference on Electrical Engineering and Informatics (ICELTICS) 2026

UNIVERSITAS SYIAH KUALA

Multipurpose Auditorium Building, Faculty of Mathematics and Natural Sciences

Banda Aceh, Indonesia, October 28-29, 2026

*Theme: "Intelligent Systems for a Sustainable Future: Bridging Artificial Intelligence, Engineering, and Data Informatics"*

Official page: <https://iceltics.usk.ac.id/>

### Day 1 (October 28, 2026) – Opening Ceremony and Keynote Speakers Session

| TIME (GMT +7) | PROGRAM DESCRIPTION | DETAIL SCHEDULE                                                   | PIC                                                   | ROOM                          |
|---------------|---------------------|-------------------------------------------------------------------|-------------------------------------------------------|-------------------------------|
| 07.45-08.30   | PREPARATION         | Registration and Joining to Virtual Room                          | Committee                                             | Multipurpose Auditorium FMIPA |
| 08.30-08.35   | OPENING CEREMONY    | Opening by MC                                                     | MC                                                    |                               |
| 08.35-08.40   |                     | Qur'an recitation / Prayer                                        | Azfa Ferza Akbar                                      |                               |
| 08.40-08.45   |                     | Singing the National Anthem of Indonesia “Indonesia Raya”         | Committee                                             |                               |
| 08.45-08.50   |                     | Profile of Universitas Syiah Kuala                                | Committee                                             |                               |
| 08.50-08.55   |                     | Welcoming Remark by the General Chair                             | Dr. Ir. Irvanizam, S.Si., M.Sc., IPM., ASEAN Eng      |                               |
| 08.55-09.00   |                     | Welcoming Remark by the IEEE Indonesia Section                    | Prof. Dr. Mike Yuliana, S.T., M.T.                    |                               |
| 09.00-09.10   |                     | Welcoming Remark by the Rector of Universitas Syiah Kuala         | Rector Universitas Syiah Kuala                        |                               |
| 09.10-09.20   |                     | Ceremonial Opening by the Rector, the Dean, and the General Chair | Dean of Faculty of Mathematics and Natural Sciences   |                               |
| 09.20-09.25   |                     |                                                                   | Appreciation remarks and souvenir to Keynote Speakers |                               |
| 09.25-09.30   | Photo Session       |                                                                   |                                                       |                               |
| 09.30-10.30   | PLENARY SESSION     | Keynote Speaker 1: <b>Dr. A. Fachri Radjab, S.Si., M.Si.</b>      | Muslim, M.InfoTech                                    |                               |
| 10.30-11.30   |                     | Keynote Speaker 2: <b>Dr. William Chandra Tjhi</b>                | Prof. Dr. Taufik Fuadi Abidin, S.Si., M.Tech          |                               |
| 11.30-11.45   | Coffee Break        |                                                                   |                                                       |                               |
| 11.45-12.30   | PLENARY SESSION     | Keynote Speaker 3: <b>Prof. Dr. Ir. Fons J. Verbeek</b>           | Fathia Sabrina, S.T., M.Inf.Tech                      |                               |

| TIME (GMT +7) | PROGRAM DESCRIPTION | DETAIL SCHEDULE | PIC                                         | ROOM                                                                |
|---------------|---------------------|-----------------|---------------------------------------------|---------------------------------------------------------------------|
| 12.30-13.30   | <b>Lunch Break</b>  |                 |                                             |                                                                     |
| 13.45 – 15.45 | Parallel Session 1  | Session 1.1     | <b>Fitria Nilamsari, S.Kom., M.Sc.</b>      | FMIPA Building D, DMIR, 2 <sup>nd</sup> Floor                       |
|               |                     | Session 1.2     | <b>Dr. Muhammad Chaidir, S.Kom., M.Kom.</b> | FMIPA Building A, Smart Classroom, 2 <sup>nd</sup> Floor            |
|               |                     | Session 1.3     | <b>Husaini, M.Sc.</b>                       | FMIPA Building A, Multimedia Laboratory Room, 2 <sup>rd</sup> Floor |

#### Day 2 (October 29, 2026) – Closing Ceremony

| TIME (GMT +7) | PROGRAM DESCRIPTION | DETAIL SCHEDULE                                 | PIC                                 | ROOM                                                                |
|---------------|---------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------------------|
| 08.45 - 09.00 | PREPARATION         | Joining to Virtual Room                         | <b>Committee</b>                    | Zoom                                                                |
| 09.00 - 11.00 | Parallel Session 2  | Session 2.1                                     | <b>Vera Halfiani, S.Si., M.Mat.</b> | FMIPA Building D, DMIR, 2 <sup>nd</sup> Floor                       |
|               |                     | Session 2.2                                     | <b>Andriani Putri, M.Sc.</b>        | FMIPA Building A, Smart Classroom, 2 <sup>nd</sup> Floor            |
|               |                     | Session 2.3                                     | <b>Juwita, S.T., M.Kom., Ph.D.</b>  | FMIPA Building A, Multimedia Laboratory Room, 2 <sup>rd</sup> Floor |
| 11.00 – 12.00 | CLOSING CEREMONY    | ICELTICS 2026 Best Paper Award Announcement     | <b>ICELTICS MC</b>                  | Multipurpose Auditorium FMIPA/Zoom                                  |
|               |                     | ICELTICS 2026 Best Presenter Award Announcement |                                     |                                                                     |
|               |                     | Closing Remark                                  |                                     |                                                                     |
|               |                     | Closing by MC                                   |                                     |                                                                     |

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### Parallel Session 1.1

**Day/Date : Wednesday, October 28, 2026**

**Time : 13.45-15.45 (GMT+7)**

**Room : FMIPA Building D, DMIR, 2nd Floor /Zoom Aceh 1**

**Moderator : Fitria Nilamsari, S.Kom., M.Sc.**

| TIME (GMT +7) | Paper ID   | Paper Title                                                                                                                                             |
|---------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.45-15.45   | 1571347081 | A Machine Learning-Based Adaptive EWMA Max-Half-Mchart for Simultaneous Monitoring of Process Mean and Covariance                                       |
|               | 1571310780 | Class Conditional Data Driven Membership Function Boundaries for Fuzzy Rule Based Air Quality Index Classification                                      |
|               | 1571315972 | Classification of Arabica and Robusta Coffee Mixture Ratios Using an Electronic Nose Based on Statistical Feature Extraction and Support Vector Machine |
|               | 1571337194 | Comparative Analysis of LightGBM and XGBoost for Potentially Hazardous Asteroid Classification Under Different Feature Configurations                   |
|               | 1571347515 | Early Prediction of Construction Delays: An XGBoost Approach with Hyperparameter and Threshold Tuning                                                   |
|               | 1571346523 | Students' Employability Prediction Based on Internship Experiences Using Random Forest                                                                  |

### Parallel Session 1.2

**Day/Date** : Wednesday, October 28, 2026

**Time** : 13.45-15.45 (GMT+7)

**Room** : FMIPA Building A, Smart Classroom, 2nd Floor/Zoom Aceh 1

**Moderator** : Dr. Muhammad Chaidir, S.Kom., M.Kom.

| TIME (GMT +7) | Paper ID   | Paper Title                                                                                                                              |
|---------------|------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 13.45 -15.45  | 1571327934 | Comparative Analysis of EfficientNet and VGG Feature Extraction with Machine Learning Classifiers for Melanoma Classification            |
|               | 1571346892 | Comparative Study of Rice Sack Detection Using YOLO11, YOLO12, and RF-DETR with Polygon and Bounding Box Annotation                      |
|               | 1571347252 | Integration of Feature Fusion on Convolutional Neural Network for Face Spoofing Detection Base on Digital Artefact in Online Presence    |
|               | 1571342961 | SE-Fusion-Net: A Synergistic Integration of CNN, Vision Transformer, and Bidirectional Mamba for Multi-Class Skin Disease Classification |
|               | 1571347353 | Intelligence E-Commerce Service Analysis: Domain Adapted Aspect-Based Sentiment Analysis Using Fine-Tuned IndoBERT                       |

### Parallel Session 1.3

**Day/Date** : Wednesday, October 28, 2026

**Time** : 13.45-15.45 (GMT+7)

**Room** : FMIPA Building A, Multimedia Laboratory Room, 2nd Floor/Zoom Aceh 1

**Moderator** : Husaini, M.Sc.

| TIME (GMT +7) | Paper ID   | Paper Title                                                                                                                            |
|---------------|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 13.45-15.45   | 1571342847 | An Empirical Comparison of Transformer-Based and Deep Learning Models for Network Intrusion Detection                                  |
|               | 1571347555 | Computational Screening of BACE1 Inhibitors for Alzheimer's Disease Using Deep Neural Networks and Ensemble Learning                   |
|               | 1571347492 | Multi-Protocol SSH and Telnet Threat Classification Using SecureBERT 2.0 and XGBoost                                                   |
|               | 1571327728 | Neural Machine Translation for English-Gayo: Benchmarking Pre-Trained Transformers on a Newly Constructed Low-Resource Parallel Corpus |
|               | 1571347507 | Trilingual Code-Switching Speech Recognition for Indonesian-Arabic-English via Curriculum Fine-Tuning of Whisper Small                 |

### Parallel Session 2.1

**Day/Date** : Thursday, October 29, 2026

**Time** : 09.00-11.00 (GMT+7)

**Room** : FMIPA Building, DMIR, Building D, 2nd Floor /Zoom Aceh 2

**Moderator** : Vera Halfiani, S.Si., M.Mat.

| TIME (GMT +7) | Paper ID   | Paper Title                                                                                                                                                                  |
|---------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09.00-11.00   | 1571318849 | Analysis of Tactical Mechanics and Decision Processes in Turn-Based Combat Systems: Apps Evaluation                                                                          |
|               | 1571326665 | Dynamic Nonlinear Differential Equation Model for Indonesia's GDP Growth Simulation Incorporating Gross Fixed Capital Formation                                              |
|               | 1571290434 | Hybrid Genetic Algorithm and Simulated Annealing for Multi-Timeline University Timetabling                                                                                   |
|               | 1571318159 | Mixed Integer Nonlinear Programming Model for Capacitated Cumulative Vehicle Routing Problem with Dynamic Requests (Dynamic Cum VRP) Related to Sustainable Development Goal |
|               | 1571343003 | Can Machine Learning and Deep Learning Beat the Random Walk? Evidence from Weekly BBKA Return Forecasting with News Sentiment                                                |

### Parallel Session 2.2

**Day/Date** : Thursday, October 29, 2026

**Time** : 09.00-11.00 (GMT+7)

**Room** : FMIPA Building A, Smart Classroom, 2nd Floor/Zoom Aceh 2

**Moderator** : Andriani Putri, M.Sc.

| TIME (GMT +7) | Paper ID   | Paper Title                                                                                                                                          |
|---------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09.00-11.00   | 1571347498 | From Availability to Observability: Coverage-Aware Visual Analytics and Explainable AI for Open PM2.5 Monitoring in Indonesia                        |
|               | 1571344727 | Spatio-Temporal Cluster Detection of Tuberculosis Relative Risk in Aceh Province, Indonesia Using the FleXScan Method                                |
|               | 1571345375 | AirMeal: An Integrated AI Decision-Support Framework for Airline Meal Distribution                                                                   |
|               | 1571329460 | Multi-Level Feature Dependency Graphs: A Data Informatics Framework for Knowledge Representation and Change Impact Analysis in Parametric CAD Models |
|               | 1571347600 | Evaluating CKKS Encryption Placement in an Autoencoder-Based NLP Pipeline                                                                            |

### Parallel Session 2.3

**Day/Date** : Thursday, October 29, 2026

**Time** : 09.00-11.00 (GMT+7)

**Room** : FMIPA Building A, Multimedia Laboratory Room, 2nd Floor /Zoom Aceh 2

**Moderator** : Juwita, S.T., M.Kom., Ph.D.

| TIME (GMT +7) | Paper ID   | Paper Title                                                                                                                                  |
|---------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 09.00-11.00   | 1571331798 | Energy-Efficient Relay Selection for IEEE 802.11ah Internet of Drones Using Proximal Policy Optimization                                     |
|               | 1571347044 | Operation-Level Energy Characterization of Sensing and Bluetooth Low Energy Communication in an ESP32-C6 Agricultural IoT Node               |
|               | 1571310314 | Region Instability of Bright, Dark, and Multi-Peak Soliton in Optical Fiber Based on Fractional Nonlinear Schrödinger Cubic-Quintic Equation |
|               | 1571341112 | Underwater Acoustic Channel Impulse Response Measurement Using Different Probe Signals with a Ray-Tracing Reference Model in a Test Tank     |
|               | 1571347008 | Multimodal Multi-Task Learning for Stress Detection with Auxiliary Emotion Recognition in Indonesian Speech                                  |