

1st INTERNATIONAL CONFERENCE ON SMART SYSTEMS, DESIGN AND ENERGY

November 28-29, 2025 | Hybrid | BITLİS

CONGRESS PROGRAM

IMPORTANT

- To be able to make a meeting online, login via <https://zoom.us/join> site, enter ID instead of “Meeting ID or Personal link Name” and solidify the session.
 - The presentation will have 15 minutes (including questions and answers).
 - The Zoom application is free and no need to create an account.
 - The Zoom application can be used without registration.
 - The application works on tablets, phones and PCs.
 - Speakers must be connected to the session 15 minutes before the presentation time.
 - All congress participants can connect live and listen to all sessions.
 - During the session, your camera should be turned on at least %70 of session period
 - Moderator is responsible for the presentation and scientific discussion (question-answer) section of the session.
 - Make sure your computer has a microphone and is working.
 - You should be able to use screen sharing feature in Zoom.
 - Attendance certificates will be sent to you as pdf at the end of the congress.
 - Moderator is responsible for the presentation and scientific discussion (question-answer) section of the session.
 - Before you login to Zoom, indicate hall number and your surname (Hall-1, Gamze AKSOY)
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Meetings ID: 309 258 4587

Passcode: 12345

**OPENING PROGRAM OF THE 1ST INTERNATIONAL
CONFERENCE ON SMART SYSTEMS, DESIGN AND ENERGY
ISDEC 2025**

**BITLIS EREN UNIVERSITY
CENTRAL CONFERENCE HALL
28.11.2025 | 10:00**

Opening and Welcome

Introduction of the event and overview of the program.

Associate Professor Vedat TÜMEN

Conference Chair

Professor Dr. Hakan ÇOBAN

Dean of Engineering and Architecture Faculty

Professor Dr. Necmettin ELMASTAŞ

Rector of Bitlis Eren University

Associate Professor Dr. Davut İZCİ

Keynote Speaker

“Metaheuristic Intelligence: Bridging Nature-Inspired Optimization and Real-World Engineering”

Professor Dr. Ercan IŞIK

Keynote Speaker

“A Comparative Assessment of RC Structures Prior to and Following the 2023 Kahramanmaraş Earthquakes ”

Professor Dr. Ercan IŞIK

Erasmus+ project introduction

“Strengthening green and digital capacities in higher education through collaboration in integrating historical buildings into a sustainable and digital future”

FACE TO FACE PRESENTATIONS

28.11.2025 / Class 1

BITLIS EREN UNIVERSITY

GRADUATE EDUCATION INSTITUTE

HEAD OF SESSION: Prof. Dr. Serdar EKİNCİ

13:30-14:30

AUTHORS	AFFILIATION	TOPIC TITLE
Rıdvan UMAZ	Bitlis Eren University	Analysis Of 5-Level Buck Converter With Steady-State Model
Mehmet Akif Yerlikaya Yunus SAYAN	Bitlis Eren University	An Integrated Energy–Routing–Task Optimization Model for Fuel Cell Powered AGV Systems
Yunus SAYAN	Bitlis Eren University	A System-Level Review of Photovoltaic-Hydrogen-Proton Exchange Membrane Fuel Cell Chains

15:00-16:30

Sümeýra KAYA ARMAN Halit ÖZEN Güzin AKYILDIZ ALÇURA	Bitlis Eren University İstanbul Teknik University Yıldız Teknik University	Comparison Of Statistical And Machine Learning Methods Based On Sensitivity To The Deficiency Rate In Bluetooth-Based Traffic Data
Bülent KARA Faruk ORAL	Tatvan Vocational Training Center Bitlis Eren University	Offshore Wind Energy And The Current Situation in Türkiye
Nusret BOZKURT Ünal TUNÇ Erden Ozan KARACA	Bitlis Eren University	Evaluation of Pumice-Based Building Materials in Terms of Structural Lightness, Thermal Insulation and Energy Efficiency
Mehmet MOLU	Bitlis Eren University	The Effect of Training Data Order on Model Performance in Deep Learning: CIFAR-10 Analysis

All participants must join the conference 10 minutes before the session time. Every presentation should last not longer than 10-12 minutes. Kindly keep your cameras on till the end of the session.

FACE TO FACE PRESENTATIONS

28.11.2025 / Class 2

BITLIS EREN UNIVERSITY

GRADUATE EDUCATION INSTITUTE

HEAD OF SESSION: Prof. Dr. M. Cihan AYDIN

13:30-14:30

AUTHORS	AFFILIATION	TOPIC TITLE
Cansu AKYÜREK ANACUR Asuman GÜNAY YILMAZ Bekir DİZDAROĞLU	Karadeniz Teknik University	Multimodal Deep Learning-Based Classification of Handwriting Data: The Case of Alzheimer's Disease
Mehmet Kurnaz Celal ALAGÖZ	Sivas Science and Technology University	A Comparative Study of MiniRocket and cFIRE Against Image-Transformation Approaches on EEG Dataset
Kübra ÇETİN YILDIZ Emine AYAZ	Bitlis Eren University	Multi-Class Sentiment Analysis Of Mpox Disease In X(Twitter) Data

15:00-16:30

Cansu AKYÜREK ANACUR Özlem ŞEKER	Bitlis Eren University	Integrating Geospatial Analysis, Temporal Modeling, And Machine Learning For Seismic Hazard Assessment: A 24-Year Earthquake Study In Chile (2000–2024)
Yaren YALÇINKAYA Emine AYAZ Vedat TÜMEN	Bitlis Eren University	Land Cover Segmentation and Forest Loss Analysis from Satellite Images Using Vision Transformers
Mehtap ÜLKER	Bitlis Eren University	Adaptive Multi-Coefficient Quantization Index Modulation in DCT-Based Steganography

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FACE TO FACE PRESENTATIONS

28.11.2025 / Class 3

BITLIS EREN UNIVERSITY

GRADUATE EDUCATION INSTITUTE

HEAD OF SESSION: Assoc. Prof. Nusret BOZKURT

13:30-14:30

AUTHORS	AFFILIATION	TOPIC TITLE
Nusret BOZKURT Orhan DURAK	Bitlis Eren University	Chronological Evolution of Structural Health Monitoring and Prediction Systems in Türkiye
Mehmet MOLU	Bitlis Eren University	Proposed Management System for Material and Technical Human Resources in Public Institutions
Nusret BOZKURT Saffet SOYUGÜZEL	Bitlis Eren University	Chronological Development Of Green Building Technologies In Türkiye And A Regional Perspective On Sustainability Criteria

15:00-16:30

Erden Ozan Karaca Nusret BOZKURT	Bitlis Eren University	Investigation Of The Applicability Of Fuzzy Logic Method In Estimating Load-Displacement Data Of Lightweight Concrete Beams
Özlem ŞEKER Cennet AKÇAKAYA Nurullah AKARSLAN	Bitlis Eren University	BLE Based IoT Application for Life Detection Under Debris
Nusret BOZKURT Nidahi SOYUGÜZEL	Bitlis Eren University	Chronological Evolution of Smart Concrete as a Special Composite Material
Farhad Pirmohammadi ALISHAH Mehdi Mohammad REZAEI	Islamic Azad University, Shabestar Branch	The Use of Artificial Intelligence in Petrology
Farhad Pirmohammadi ALISHAH Mehdi Mohammad REZAEI	Islamic Azad University, Shabestar Branch	Artificial Intelligence is revolutionizing energy consumption in Civil Engineering

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ONLINE PRESENTATIONS

29.11.2025 / Hall-1 / Session-1

BITLIS LOCAL TIME
09:30 – 11:30

ZOOM ID: 309 258 4587
ZOOM PASSCODE: 12345

HEAD OF SESSION: Assist. Prof. Murat BİNİCİ

AUTHORS	AFFILIATION	TOPIC TITLE
Feride TUĞRUL	Munzur University	Effect on Decision Making Processes of Pythagorean Fuzzy Set
Murat Binici Nebi SUDAY	Bitlis Eren University	Short-Term Electricity Load Forecasting with Holt–Winters, XGBoost and Extended Hybrid Model
Celal ALAGÖZ Farhan AADIL	Sivas Science and Technology University	Adaptive Representation–Feature Selection for Efficient and Interpretable Time Series Classification
İlayda AKSOY	Bitlis Eren University	Hybrid Optimization-Based Deep Learning Model Design for Energy-Efficient Intelligent Systems
Yusuf UZ Zafer SERİN Uğur YÜZGEÇ	Bilecik Şeyh Edebali University	Selfie2BFP: A Facial Image–Based Deep Learning Framework for Body Fat Percentage Estimation
Mehmet Emin BAKIR Sezer DÖYMAZ Vedat TÜMEN	İzmir Katip Çelebi University Bitlis Eren University	Insult Detection Across Multiple Social Media Platforms

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ONLINE PRESENTATIONS

29.11.2025 / Hall-2 / Session-1

BITLIS LOCAL TIME

09:30 – 11:30

ZOOM ID: 309 258 4587

ZOOM PASSCODE: 12345

HEAD OF SESSION: Assoc. Prof. Rıdvan UMAZ

AUTHORS	AFFILIATION	TOPIC TITLE
Fikri AĞGÜN Raif SİME	Bitlis Eren University	A Study On Webassembly-Based Crypto Mining
Berat DEMİRKAN Tolga ÖZASLAN	Ankara Yıldırım Beyazıt University	Detecting Specular Surfaces With LiDAR–Sonar Sensor Fusion
Rıdvan Fırat ÇINAR	Batman University	Data-driven Scoring of a Continuous Water Quality Index Using Nonlinear Tree Based Machine Learning Models
Onur KAYA Songül KARAKUŞ	Bitlis Eren University	Recovering Deleted Data On Thermal Paper Using Uv Light And Image Processing In Digital Forensics
Eyyüp KARDEŞ İrfan ÖKTEN Uğur YÜZGEÇ	Bitlis Eren University Bilecik Şeyh Edebali University	Facial Recognition-Based Security Verification in Mobile Banking: An Innovative AI-Based Approach
Erkan DEVECİ Burhan ERGEN	Osmaniye Korkut Ata University Fırat University	Automated Post-Earthquake Wall Damage Detection and Classification Using YOLOv8

All participants must join the conference 10 minutes before the session time. Every presentation should last not longer than 10-12 minutes. Kindly keep your cameras on till the end of the session.

ONLINE PRESENTATIONS

29.11.2025 / Hall-3 / Session-1

BITLIS LOCAL TIME

09:30 - 11:30

ZOOM ID: 309 258 4587

ZOOM PASSCODE: 12345

HEAD OF SESSION: Prof. Dr. Cengiz YILDIZ

AUTHORS	AFFILIATION	TOPIC TITLE
Fatih İLKBAHAR Şahin KARA Muhammed Zekeriya GÜNDÜZ	Düzce University Sakarya Applied Sciences University Bingöl University	Planning, Optimization, and Grid Integration of Electric Vehicle Charging Infrastructure: A Systematic Literature Review
Gökhan YÜKSEK	Batman University	Evaluating Meteorological Effects on Wind Turbine Performance: Anomaly Detection and Energy Loss Quantification
Serdar EKİNCİ Davut İZCİ Burcu BEKTAŞ GÜNEŞ İlayda AKSOY Mohit BAJAJ Laith ABUALIGAH	Bitlis Eren University Bursa Uludağ University Graphic Era (Deemed to be University) Al al-Bayt University	Stellar Oscillation Optimizer-based Parameter Identification for Photowatt PWP201 and STM6- 40/36 PV Modules
Abdullatif YILMAZ Cengiz YILDIZ	Firat University	Numerical Investigation Of The Cooling Performance Of Photovoltaic Panels Equipped With Square Fins
Mustafa AKDAĞ Mehmet Salih MAMİŞ	Bitlis Eren University Inönü University	Single-Ended Fault Detection and Fault Location in Transmission Lines Using the Approximate Derivative
Fatih OKTAY Emin EL	Bitlis Eren University	Investigation of the Thermal Performance of Air-Cooled Lithium-Ion Battery Systems in Electric Vehicles

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ONLINE PRESENTATIONS

29.11.2025 / Hall-1 / Session-2

BITLIS LOCAL TIME

13:30 – 15:30

ZOOM ID: 309 258 4587

ZOOM PASSCODE: 12345

HEAD OF SESSION: Assist. Prof. Ümit CAN

AUTHORS	AFFILIATION	TOPIC TITLE
Dilan ÖZEK İrfan ÖKTEN Lokman DOĞAN	Bitlis Eren University Kütahya Health Sciences University	A Deep Learning-Based Bidirectional Sign Language Translation System
Seda YETKİN YEŞİL Olca PALTA	Bitlis Eren University	ResNet-50 Based CNN Model for Grape Leaf Image Classification in MATLAB
Ümit CAN	Munzur University	Sentiment Analysis of Monkeypox Tweets Utilizing a Hybrid Deep Learning Model
Hasan ÖNDER İlknur ÇEVİK TEKİN	Selçuk University	Monitoring and Analysis of Employee Productivity with Artificial Intelligence: YOLO Algorithm Application
İSMAİL ÇALIKUŞU Kadir HALTAŞ	Nevşehir Hacı Bektaş Veli University	A Machine Learning and Clustering-Based Framework for Assessing Environmental Effects in the Textile Industry
Muhammed Zekeriya GÜNDÜZ Şahin KARA Fatih İLKBAHAR	Bingöl University Sakarya Applied Sciences University Düzce University	Enhancing Situational Awareness Against Ransomware Attacks: Analysis, Detection, and Prevention Approaches

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ONLINE PRESENTATIONS

29.11.2025 / Hall-2 / Session-2

BITLIS LOCAL TIME

13:30 – 15:30

ZOOM ID: 309 258 4587

ZOOM PASSCODE: 12345

HEAD OF SESSION: Assist. Prof. Emine AYAZ

AUTHORS	AFFILIATION	TOPIC TITLE
Mehmet MOLU	Bitlis Eren University	A Conceptual Two-Layer Emotion Chain Model For In-Store Customer Satisfaction Analysis
Elif ERÇEL İrfan ÖKTEN	Bitlis Eren University	Smart Door Security System with Face Recognition: A Low-Cost IoT-Based Approach
Barış ASLAN Pınar ÜNVER Beytullah TÜTÜNCÜ Tuğçe DENİZ	Düzce University	Speaker Attribution in Dialogue-Heavy Texts: Comparative Analysis of Babelscape and SavasyBERT NER Models
Buğra Berk SARIOĞLU Tolga ÖZASLAN	Ankara Yıldırım Beyazıt University	An ESP32-Based Integrated Multi-Peripheral Platform for Micro Aerial Vehicles
Muhammet İsmail GÜNGÖR Davut İZCİ Serdar EKİNCİ Ehab GHITH	Bursa Uludağ University Bitlis Eren University Ain Shams University	Enhanced Transient Performance of Micro-Robotic Systems via SFOA-Based PID Tuning
Şafak SARI Faruk ORAL	Bitlis Eren University	Waste Heat Recovery Potential In Sofc Systems Operating At High Temperatures

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ONLINE PRESENTATIONS

29.11.2025 / Hall-3 / Session-2

BITLIS LOCAL TIME

13:30 – 15:30

ZOOM ID: 309 258 4587

ZOOM PASSCODE: 12345

HEAD OF SESSION: Assist. Prof. Alev Akıllı EL

AUTHORS	AFFILIATION	TOPIC TITLE
Alev AKILLI EL	Bitlis Eren University	Conductive Asphalt Pavements for Snow and Ice Management on Roads
Aykut TUNTAŞ Namık YALTAY	Van Yüzüncü Yıl University	Geopolimer Brick Technology In Terms Of Energy And Sustainability
Farhad Pirmohammadi ALİSHAH Mehdi Mohammad REZAEI	Islamic Azad University, Shabestar Branch	The Application of Artificial Intelligence in Crystallography and Mineralogy
Fatih TAŞDELEN	Bitlis Eren University	An Examination Of The Effect Of Channel Height On Heat Transfer Within A Chip-Embedded Minichannel
Fatih TAŞDELEN	Bitlis Eren University	Evaluation Of Heat Transfer Behaviour In A Minichannel With Electronic Chips Using Different Fluids
Özge Nur ÇETKİN	Bitlis Eren University	Investigation of the Use of Waste Materials in Soil Improvement Methods
Zehra ERTOSUN KARABULUT Sabriye Banu İKİZLER	Muş Alparslan University Karadeniz Teknik Üniversitesi	Different Sand Soils Treated by MICP Method: Effect of Flow Rate Variation on Calcium Carbonate Precipitation

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