

# International Conference on Autonomous Systems and their Applications (ICASA'24)

## Conference Program



December.15, 2024

El Tarf, Algeria



**Sunday, December 15, 2024**

### Session 1- The main auditorium - El Tarf University

08:00- 09:00 Welcome Reception & Registration

09:00- 09 :30 - **Opening Ceremony**

Quran recitation

National anthem

Welcome speech by the General Chair

Welcome speech by the Dean of the Faculty of Sciences and Technologies

Welcome Speech and Official Opening of the Conference by the Rector of El Tarf University.

#### **Session 1 / Keynotes Invited 01**

Lien Google Meet: <https://meet.google.com/ekg-bbsn-zde>

**Session Chairs : Dr. Benmachiche A, Pr. Derdour M & Pr. Benmerzoug D**

**09:30-10:15**

**Pr. GHOUALMI NASSIRA-ZINE**

**Title: Cyberdefense: IDS vs IPS**

### **10:15—10:30- Break (Photo session & Coffee)**

#### **Session 1 / Keynotes Invited 02**

Lien Google Meet: <https://meet.google.com/ekg-bbsn-zde>

**Session Chairs : Dr. Benmachiche A, Pr. Derdour M & Pr. Benmerzoug D**

**10:30-11:00 -**

**Dr. Slimi Hamda**

**Title: Bridging Words and Images: The Power of LLMs and LVMs**

#### **Session 1 / Keynotes Invited 03**

Lien Google Meet: <https://meet.google.com/ekg-bbsn-zde>

**Session Chairs : Dr. Benmachiche A, Pr. Derdour M & Pr. Benmerzoug D**

**11:00-11:30 -**

**Dr. Benmounah Zakaria**

**Title: How AI Redefines the Future Of Work.**

### **11:30-12:30- Lunch**

## 13:00 —Parallel sessions (On site)

### SESSION 1 (The main auditorium - El Tarf University): Chairs: Dr. Maatalah M & Dr. Ahmim A.

13:00–13:15	Nada Ahmed Malek	- Optimizing Urban Traffic Safety: A Case Study on Intelligent Transportation Systems in Algeria
13:15-13:30	Ala Djedjai	- Improving Scalability in Block Chain based Federated Learning Using Off-chain Storage
13:30–13:45	Zina Oudina	- Paving the Way for Smart Cyber Security: Integrating Artificial Intelligence and Building a Roadmap
13:45–14:00	Bouguerne Imen	- A system for detecting traffic objects and estimating their distance
14:00–14:15	Wafa Bougheloum	- Intelligent Industrial Process Monitoring: SSAE for Quality Assurance

### SESSION 2 (Incubator- El Tarf University): Chairs: Dr. Benrouba F and Dr. Kehil M.

13:00–13:15	Zina Oudina	- Unmanned Aerial Vehicles Security: Threat Analysis and Hybrid Cryptography for secured Communication
13:15-13:30	Abderaouf Bahi	- Optimizing E-Commerce Product Recommendations Using Reinforcement Learning
13:30–13:45	Amal Miloud Aouidate	- A Fuzzy-KNN approach for Heart disease Prediction
13:45–14:00	Ferdous BENROUBA	- Advancements in Suicide Ideation Detection: A Comprehensive Literature Review
14:00–14:15	Lokman TOUIL	- AI-Driven Cybersecurity Orchestration and Automation
14:15–14:30	Nour El Houda Dehimi	- Explainable AI in Decision-Making: Benefits and Explainable AI in Decision-Making: Benefits and Challenges

### SESSION 3 (Artificial Intelligence House, Section A- El Tarf University): Chairs: Dr. Djedjai A., Dr. Sahraoui A . and Dr. Labiod Y

13:00–13:15	Amal Miloud Aouidate	- A CONVOLUTIONAL NEURAL NETWORK FOR SLEEP APNEA DETECTION
13:15-13:30	Zina Oudina	- Security Risk Modeling for Critical Systems: Attack Graphs and Attack Trees
13:30–13:45	Lokman TOUIL	- Intelligent Fault Detection base on machine learning in Autonomous Vehicles : A Hybrid Approach
13:45–14:00	Mohamed el amine KHERAIFIA	- Ensuring Data Security and Privacy in Smart City Surveillance Systems Using Chaotic Maps and Smart Contracts
14:00–14:15	Bentrad Moutaz Bellah	- Diagnosis of Induction Machine and Severity Estimation using Novel Gradient Boosting technique

### SESSION 4 (Artificial Intelligence House, Section B- El Tarf University): Chairs: Dr Miloud Aouidate A. Dr. Sahki A

13:00–13:15	Rofaida Khemaissia	- VerChain: Blockchain Based Certificate Degree Attestation and Verification in Algeria
13:15-13:30	Messaoudi Newfel	- Using of the A-OL Specification Language for the Automatic Generation of a Memory Controller Specifically for High Efficiency Video coding (HEVC)
13:30–13:45	Ramzi Khantouchi	- Improving Recommendation quality via Ensemble Neural Networks
13:45–14:00	Maroua BENLEULMI	- Collaborative Filtering Models Analysis on Amazon Products Dataset
14:00–14:15	Chemam Chaouki	- Enhancing Security in E-Learning Platforms
14:15-14:30	Gahem Abderrahmen	- Enhance Trajectory prediction based swarm with deep learning

## SESSION 5 (Computer Room on the Ground floor):

Chairs: Dr. Messaoudi N. and Dr. Bouguern I.

13:00–13:15	Sedraoui Brahim Khalil	- Applications of Secure Multi-Party Computation in Financial Services
13:15–13:30	Boutabia Ines	- Shortest Path Algorithms for Autonomous Systems and Robotics
13:30–13:45	Besma AHMED MALEK	- Optimizing Logistic Strategies in Algeria through Artificial Intelligence: A Comprehensive Analysis
13:45–14:00	BOUFAIDA Soundes Oumaima	- Hybrid Multi-Factor Authentication (MFA) Using Biometrics and Behavioral Analysis
14:00–14:15	Zina Oudina	- Toward a Secured Communication Protocol for Unmanned Aerial Vehicles: A Security Map and Cryptography
14:15–14:30	Faiz Maazouzi	- Sentiment Analysis of the Maghrebi Dialect Using RoBERT

## SESSION 6 ONLINE (Computer Room on the 1<sup>st</sup> floor):

Lien Google Meet: <https://meet.google.com/ekg-bbsn-zde>

Chairs: Dr. Makhoulouf A. and Dr. Maazouzi F.

13:00–13:10	Atmane Hadji	- A Machine Learning Algorithms for decision-makers and analysts in the field of digital finance
13:10–13:20	Farid Boumaza	- New mapping method based on Bat algorithm for Embedded Systems
13:20–13:30	Djaidja Imane	- Early Parkinson's Detection: A Speech-Based Deep Learning Model with LSTM for Accurate Diagnosis
13:30–13:40	Sara Gasmi	- SE-GNN: A Social-Enhanced Graph Neural Network for Personalized Recommendation
13:40–13:50	Rais Khadidja	- Enhancing Medical Image Analysis through Geometric and Photometric Transformations
13:50–14:00	Abid Safa	- Segmentation based deep learning approach for corrosion detection
14:00–14:10	Sedraoui Brahim Khalil	- Exploring the Integration of Differential Privacy in Cybersecurity Analytics: Balancing Data Utility and Privacy in Threat Intelligence
14:10–14:20	Boutabia Ines	- Adaptive Shortest Path Algorithms in Dynamic and Uncertain Environments
14:20–14:30	BOUFAIDA Soundes Oumaima	- Hybrid Secure Routing in Mobile Ad-hoc Networks (MANETSs)

14:30-14:40 Closing Session

14:40-17:00- Visit

جامعة الشاذلي بن جديد - الطارف  
مستقبل حبيبنا  
الاستاذ: بن مشيش عبد المجيد

