8th International Conference on Networking and Advanced Systems
(ICNAS'26)
November 4–5, 2026 – Hybrid
Badji Mokhtar University – Annaba, Algeria
Aboubaker Belkaid Amphitheater

Conference Program

Program at a Glance

Time	Day 1 · Wednesday, Nov 4	Day 2 · Thursday, Nov 5
08:00 – 08:45	Welcome reception & registration	Registration
08:45 – 09:00	**Opening ceremony**	—
09:00 – 09:45	**Keynote 1 · Prof. Amine Bermak**	**Keynote 1 Dr M. Chahine Ghanem**
09:45 – 10:30	**Keynote 2 · Prof. Tarek Gaber**	**Keynote 2 · Prof. Imed Ben Dhaou**
10:30 – 11:00	Coffee break & photo session	Coffee break
11:00 – 13:00	**S1** Security and Privacy **S2** Quantum Computing and its Applications	**S5** Applied Artificial Intelligence (II) *11:00 – 12:20* **Closing** *12:20 – 13:00*
13:00 – 14:00	Lunch	Lunch
14:00 – 15:40	**S3** Networking and Next-generation Networks **S4** Applied Artificial Intelligence	—
15:40 – 16:00	Coffee break · End of Day 1	—

Tracks & Sessions

Track	Session(s)	Papers	When
■ Security and Privacy	**S1**	6	Day 1 · 11:00 – 13:00 ·
■ Quantum Computing and its Applications	**S2**	5	Day 1 · 11:00 – 12:40 ·
■ Networking and Next-generation Networks	**S3**	5	Day 1 · 14:00 – 15:40 ·
■ Applied Artificial Intelligence	**S4 + S5**	9	Day 1 · 14:00 – 15:40 · Day 2 · 11:00 – 12:20 ·
Total	**5 sessions**	**25**	**4 keynotes · 2 days**

Information for Presenters & Attendees

- All times are in Algeria local time (UTC+1).
- Each paper has 20 minutes (15 min presentation + 5 min Q&A). Please keep strictly to your time slot.
- All sessions are hybrid: on-site in the session room, online through the session link.

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Day 1 · Wednesday 04-11-2026

08:00 – 08:45 **Welcome Reception & Registration**

08:45 – 09:00 **Opening Ceremony « Welcome to ICNAS'2026 »**

Venue: Aboubaker Belkaid Amphitheater **Online link:** https://meet.google.com/mbj-rwik-rqd

- Quran recitation
- National anthem
- Welcome speech by the Conference Chair, *Pr. N. Ghoualmi-Zine*, Director of LRS
- Welcome speech by the Dean of the Faculty of Technology, *Pr. Samir Benmoussa*
- Welcome Speech and Official Opening of the Conference by *Prof. Mohamed MANAA*, Rector of Badji Mokhtar University of Annaba.

Plenary · Invited Keynote Talks

Venue: Aboubaker Belkaid Amphitheater

09:00 – 09:45 · KEYNOTE 1

"Extreme Edge Intelligence: Moving Artificial Intelligence closer to Sensors"

Prof. Amine Bermak

Hamad Bin Khalifa University, Qatar · IEEE Fellow

Mode (On-site and online): https://meet.google.com/mbj-rwik-rqd

09:45 – 10:30 · KEYNOTE 2

"Trustworthy and Secure AI Infrastructure for Smart Cities"

Prof. Tarek Gaber

University of Salford, UK · Suez Canal University, Egypt

Mode (Online): https://meet.google.com/mbj-rwik-rqd

10:30 – 11:00 **Break (Photo Session & Coffee)**

11:00 – 13:00 — Parallel Sessions

SESSION 1 · Security and Privacy		
11:00 – 13:00	Online link: https://meet.google.com/osx-wohx-orr	
Time	**Paper ID**	**Paper Title**
11:00 – 11:20	#50	Reconstruction-Aware Explainable Stacked Ensemble for Multiclass Intrusion Detection in Heterogeneous IoT and IIoT Environments
11:20 – 11:40	#21	Blind Medical Image Watermarking with Differential Embedding for Smart Healthcare Applications
11:40 – 12:00	#36	An Efficient Multi-Modal Stacking Framework for Malware Detection in UAV/IoT Systems
12:00 – 12:20	#39	TrustFL-IDS: A Secure and Privacy-Preserving Federated Intrusion Detection Framework for the Internet of Medical Things
12:20 – 12:40	#43	Evaluating Explainable and Imbalance-Aware Machine Learning for Multi-Class SCADA Intrusion Detection
12:40 – 13:00	#27	Latent-Coupled Supervised–f-AnoGAN Cascade for Zero-Day Intrusion Detection in IoT Networks

SESSION 2 · Quantum Computing and its Applications		
11:00 – 12:40	Online link: https://meet.google.com/coo-bent-hkc	
Time	**Paper ID**	**Paper Title**
11:00 – 11:20	#10	Optimizing QAOA: An Empirical Study of Circuit Depth, Classical Optimizers, and Parameter Initialization Strategies for the Max-Cut Problem
11:20 – 11:40	#46	Predictive Embedding Geometry for Variational Quantum Classifier Performance Across Vision Foundation Models on the Rigetti Cepheus-1-108Q QPU
11:40 – 12:00	#45	QSC-FL: A Quantum-Secured Smart Contract Protocol Against Dataset Poisoning in Federated Learning
12:00 – 12:20	#9	Quantifying the Critical Phase in Quantum Image Pipelines: A Comparative Study of FRQI and NEQR under QFT and Grover Transformations
12:20 – 12:40	#37	Classical vs Quantum SVM: An Empirical Diagnostic Study of Dimensionality Reduction and Kernel Limitations

13:00 – 14:00 **Lunch Break**

14:00 – 15:40 — Parallel Sessions

SESSION 3 · Networking and Next-generation Networks		
14:00 – 15:40 Online link: https://meet.google.com/ydj-wkzh-wpj		
Time	**Paper ID**	**Paper Title**
14:00 – 14:20	#34	A Quantum-Inspired Sunflower Optimizer for Cost–Latency-Aware Edge-Cloud Service Placement in IoT Systems
14:20 – 14:40	#11	Federated Diffusion-Based Blocking Classification in Elastic Optical Networks
14:40 – 15:00	#41	Zone-Based BLE Tracking for Smart Airport Trolleys
15:00 – 15:20	#33	Toward Distributed Intelligence in Smart Mobility: A Conceptual Framework for Connected Vehicle Traffic Management
15:20 – 15:40	#40	Hybrid Intelligent OTDR Fault Detection and Classification for DWDM Networks using Rule-Based Analysis and Ensemble Machine Learning

SESSION 4 · Applied Artificial Intelligence (Part I)		
14:00 – 15:40 Online link: https://meet.google.com/zaj-aizp-xva		
Time	**Paper ID**	**Paper Title**
14:00 – 14:20	#38	StrokeRepNet: A Reparameterized Neural Network for Real-Time Ischemic Stroke Segmentation on Non-Contrast CT
14:20 – 14:40	#52	Chromosome Segmentation for Automated Karyotype Analysis: A Comparative Study of YOLO Instance Segmentation under Overlap and Degradation
14:40 – 15:00	#19	A Dual-Stream Attention Network for Classification of Alcohol Use Disorder and Spatio-Temporal Biomarker Discovery Using EEG Signals
15:00 – 15:20	#14	A Neuro-Symbolic Multi-Agent Framework for Trustworthy Medical Knowledge Graph Construction
15:20 – 15:40	#26	Speckle-Consistency Training for Robust Thyroid Nodule Segmentation Under Ultrasound Noise

15:40 – 16:00 **Coffee Break · End of Day 1**

Day 2 · Thursday 05-11-2026

08:30 – 09:00 **Registration**

Plenary · Invited Keynote Talks

Venue: Aboubaker Belkaid Amphitheater

09:00 – 09:45 · KEYNOTE 3

"Securing the Cyber-Physical Frontier: Security and Resilience for OT and Advanced Networked Systems in the Age of AI"

Dr Mohamed Chahine Ghanem

Keele University & University of Liverpool, UK

Mode (On-site and online): https://meet.google.com/mbj-rwik-rqd

09:45 – 10:30 · KEYNOTE 4

"Securing Demand Response in the Smart Grid : From de Smart Meter to Market"

Prof. Imed Ben Dhaou

Dar Al-Hekma University, Saudi Arabia · University of Turku, Finland

Mode (Online): https://meet.google.com/mbj-rwik-rqd

10:30 – 11:00 **Coffee Break**

11:00 – 12:20 — Technical Session

SESSION 5 · Applied Artificial Intelligence (Part II)

11:00 – 12:20 **Online link:** https://meet.google.com/zaj-aizp-xva

Time	Paper ID	Paper Title
11:00 – 11:20	#18	A Hybrid Bilingual Clinical NLP Pipeline for Rare Disease Pre-Analysis in Hospital Reports
11:20 – 11:40	#8	AGENT-GRD: Explainable Policy-Aware Agentic AI with Knowledge Graph Reasoning for Smart Environments
11:40 – 12:00	#6	An Adaptive Robust Filtering Framework for Image Quality Enhancement and Restoration
12:00 – 12:20	#12	False Arrhythmia Alarms Detection in Intensive Care Unit with ECG, PPG and ABP Signals: A Data Fusion and Machine Learning Approach

12:20 – 13:00 **Closing Session – ICNAS'2026 (followed by lunch)**

*For any inquiries or assistance, please contact **Mr. Rabah Rahal** at rabah.rahal@univ-annaba.dz.*