CONFERENCE ON CYBERSECURITY AND APPLICATIONS

CCA’2026

FIRST EDITION

CONFERENCE PROGRAM & AGENDA



November 25th - 26th, 2026

National School of Cybersecurity (NSCS)

Scientific and Technological Hub Chahid
“Abdelhafid Ihaddadene”

Sidi Abdallah, Algiers, Algeria

RESEARCH • INNOVATION • DIGITAL TRUST

OFFICIAL PROGRAM

WELCOME TO CCA'2026

Conference on Cybersecurity and Applications | November 25th - 26th, 2026, Algiers, Algeria

The **N**ational **S**chool of **C**yber**s**ecurity (**NSCS**) and the **I**nformation **S**ystem **S**ecurity **A**gency (**ISSA**) are pleased to welcome you to the **First Edition of the "Conference on Cybersecurity and Applications (CCA'2026)"**, taking place on **November 25th-26th, 2026**, at the National School of Cybersecurity, located within the **Scientific and Technological Hub "Chahid Abdelhafid Ihaddadene", Sidi Abdallah, Algiers, Algeria**.

CCA'2026 brings together researchers, academics, cybersecurity professionals, industry practitioners, and students to share knowledge, present their latest research findings, and exchange innovative ideas and practical perspectives in the rapidly evolving field of cybersecurity.

The conference provides an interdisciplinary platform for discussing emerging challenges, advances, and innovative solutions in **cybersecurity, information systems security, secure digital development, network and infrastructure protection, and the security of modern applications**.

Through keynote presentations, scientific sessions, technical discussions, and professional exchanges, CCA'2026 aims to foster collaboration between academia, research institutions, and industry, while encouraging scientific innovation and contributing to the development of a more secure and resilient digital environment.

We are delighted to bring together this community of experts and emerging researchers and sincerely thank all participants, keynote speakers, authors, reviewers, scientific committee members, and partners for their valuable contributions.

Welcome to CCA'2026. We wish you an inspiring, productive, and fruitful conference!
The CCA'2026 Organizing Committee

❑ Conference at a glance

Conference	Conference on Cybersecurity and Applications (CCA'2026)
Dates	November 25th-26th, 2026
Host institution	National School of Cybersecurity (NSCS)
Location	Scientific and Technological Hub "Chahid Abdelhafid Ihaddadene", Sidi Abdallah, Algiers, Algeria
Format	Plenary sessions, Parallel technical sessions and Research exchange

❑ Scientific tracks

- Cryptography, privacy and trusted digital systems.
- Artificial intelligence and cybersecurity.
- Systems, networks, industrial and critical infrastructures security.
- Cybersecurity governance, policies and applications.

CONFERENCE AGENDA | 25 NOVEMBER 2026

Day 1: Wednesday / Schedule overview

08:00 - 09:00	**Registration**	
09:00 - 09:30	**Opening Ceremony**	
09:30 - 10:15	**Keynote 1: The Autonomy Frontier** Mr. Belkhelladi Amir	
10:15 - 10:30	**Group Photo Session**	
10:30 - 11:00	**Coffee Break**	
11:00 - 13:00	**S1** Artificial Intelligence for Cybersecurity Main Conference Room	**S2** Systems, Networks, Industrial and Critical Infrastructures Security Main Library
13:00 - 14:30	**Lunch Break**	
14:30 - 15:00	**P1** Artificial Intelligence for Cybersecurity Main Conference Room	**P2** Systems, Networks, Industrial and Critical Infrastructures Security Main Library
15:00 - 17:00	**S3** Artificial Intelligence for Cybersecurity Main Conference Room	**S4** Systems, Networks, Industrial and Critical Infrastructures Security Main Library
17:00 - 17:30	**Coffee Break & Poster Session** Artificial Intelligence for Cybersecurity	

CONFERENCE AGENDA | 26 NOVEMBER 2026

Day 2: Thursday / Schedule overview

09:00 - 10:00	**Keynote 2: Weaknesses of Private Parameters in Cryptographic Schemes** Prof. Lemnouar Noui	
10:00 - 10:30	**Coffee Break & Poster Session** Cybersecurity Governance, Policies and Applications	
10:30 - 11:00	**P3** Cryptography, Privacy, and Trusted Digital Systems Main Conference Room	**P4** Cybersecurity Governance, Policies and Applications Main Library
11:00 - 13:00	**S5** Cryptography, Privacy, and Trusted Digital Systems Main Conference Room	**S6** Cybersecurity Governance, Policies and Applications Main Library
13:00 - 14:30	**Lunch Break**	
14:30 - 16:00	**S7** Cryptography, Privacy, and Trusted Digital Systems Main Conference Room	**S8** Cybersecurity Governance, Policies and Applications Main Library
16:00 - 17:00	**Closing Ceremony**	

DAY 1: WEDNESDAY | 25 NOVEMBER 2026

08:00 - 09:00	Main Conference Room **Welcome Reception & Registration**	
09:00 - 09:30	**Opening Ceremony** Opening Protocol: Holy Quran Recitation and Algerian National Anthem. Welcome Address and Official Opening of CCA'2026 by Conference Honorary Chairs. Key statistics about the conference by the Scientific Committee chairs.	
09:30 - 10:15	Main Conference Room **Keynote 1: The Autonomy Frontier** Mr. Amir Belkhelladi, Deloitte Canada	
10:15 - 10:30	Main Library **Group Photo Session**	
10:30 - 11:00	Main Conference Room **Coffee Break**	
11:00 - 13:00	**S1 | Main Conference Room** **Artificial Intelligence for Cybersecurity** • ID94: Ahmed Zoubir Messalti, Single-Character Orthographic Evasion of Maghrebi Hate and Offensive Language Detectors • ID50: Djamila Bouaissa, Development of an AI-Assisted Static Code Analysis Tool for PHP Vulnerability Detection • ID79: Djawhara Benchaira, Adversarial Machine Learning Against UAV Autonomy and Counter-UAS Systems: A Review • ID88: Bochra Benaissa, An Empirical Security Evaluation of Privacy Vulnerabilities and Countermeasures in Imbalanced Financial Fraud Classifiers • ID101: Kabli Fatima, Two-Stage Autoencoder-Ensemble Cascade for Robust DoS/DDoS Intrusion Detection • ID118: Radouane Gherab, Model and Privacy Security in Personalized Edge Based Stress Detection	**S2 | Main Library** **Systems, Networks, Industrial and Critical Infrastructures Security** • ID32: Ahmed Lallal, Secure P2P Mesh Communication for UAV Swarms: Hardware-Accelerated AES-GCM Integration for MAVLink over ESP-NOW • ID96: Boukedroun Mohammed, Securing UAV Swarms Against Cross-Layer Cyberattacks • ID126: Amal Boumedjout, A Real-World, Multi-Datacenter Dataset for Carbon-Aware Cloud Task Scheduling • ID53: Abid Ali, An AI-Based Framework for Anomaly Detection in Renewable Energy Systems • ID41: Mohamed Amine Brahimi, Secure Random Linear Network Coding via Hidden Idempotent Decompositions: Construction and Algorithms

DAY 1: WEDNESDAY | 25 NOVEMBER 2026 / CONTINUED

13:00 - 14:30	Main Conference Room & 4th Floor of the Main Library **Lunch Break**	
14:30 - 15:00	**P1 | Main Conference Room** **Artificial Intelligence for Cybersecurity** • Ghomari Leila • Zitouni Farouq • Iferoudjene Izem • Bardis Alloui	**P2 | Main Library** **Systems, Networks, Industrial and Critical Infrastructures Security** • Meghzili Said • Tarik Maouda • Abdelhalim Hafed • Merzoug Soltane
15:00 - 17:00	**S3 | Main Conference Room** **Artificial Intelligence for Cybersecurity** • ID43: Yassine Benaouida, Hybrid Quantum-Classical Clustering for Unsupervised Network Intrusion Detection under NISQ Constraints • ID116: Radouane Gherab, Hardware and Communication Security for Personalized Edge Based Stress Detection • ID119: Lyna Larinouna, Beyond Speaker Verification: A Multi-Factor Framework for Coercion-Resilient and Channel-Robust Voice Authentication • ID64: Nour El Houda Ahmia, AI-Powered Cyber Attack Detection for UAV Systems: A Survey • ID108: Ayoub Fodil, Protecting the Data Consumed by AI Models in Smart Cities: A Feasibility Study of Federated Learning and Homomorphic Encryption • ID122: Younes Afri, Noise-Aware RF Device Identification Using Time-Frequency Fingerprints and a Lightweight 1D ResNet • ID16: Yamina Aissaoui, Transformer and Sentiment Fusion for Context-Aware Cyberbullying Detection	**S4 | Main Library** **Systems, Networks, Industrial and Critical Infrastructures Security** • ID41bis: Mohamed Amine Brahimi, Secure Random Linear Network Coding via Hidden Idempotent Decompositions: Construction and Algorithms • ID63: Nadhir Nouioua, Controlled-Environment Evaluation of Snort and Suricata for VoIP Intrusion Detection • ID120: Boualem Bendjedia, Dynamic Networks and Critical Infrastructures: Applications and Security Challenges • ID124: Rachida Hireche, IoMT Security and Privacy: A Taxonomy and Comparative Analysis of Conventional and Emerging Approaches • ID65: Nacer-Eddine Semmadi, Data Confidentiality in Hierarchical Cyber-Physical Systems: A Systematic Survey
17:00 - 17:30	Main Conference Room **Coffee Break & Poster Session / Track 2: Artificial Intelligence for Cybersecurity** • ID87: Aya Loudjani, Cybersecurity Threats in AI- and IoT-Based Smart Agriculture: A Focused Narrative Review for UAV-Assisted Olive Disease Monitoring • ID127: Hicham Hameurlaine, Impact of Cyber Attacks on the Performance of Mini Drone-Based Networks : PUF-Based Mitigation • ID129: Mohamed Kadri Elhadi, Artificial Intelligence for the Security of Drone Swarms: Taxonomy, Comparative Analysis, and Research Challenges • ID130: Aimen Brahim, Cross-Layer QoS Evaluation in UAV Swarms: A Critical Gap Analysis • ID138: Imene Zafoune, From Cybersecurity to Cyber-Resilience in Beyond-5G Networks: Problem Statement, Positioning and Research Directions • ID139: Dallal Mayouf, Per-Layer or Whole-Stack? Choosing Post-Quantum Security for Constrained IoT Devices • ID141: Chibout Ibtissem, Zero Trust based Intelligent Security Management System for Beyond 5G	

DAY 2: THURSDAY | 26 NOVEMBER 2026

09:00 - 10:00	Main Conference Room **Keynote 2: Weaknesses of Private Parameters in Cryptographic Schemes** Prof. Lemnouar Noui, University of Batna 2, Algeria	
10:00 - 10:30	Main Conference Room **Coffee Break & Poster Session / Track 4: Cybersecurity Governance, Policies and Applications** • ID107: Soheib Cherih, One-Class Boundary Portability and Label-Free Adaptive Thresholding for Zero-Shot IoT Intrusion Detection • ID132: Talbi Nour El Islem, A Multimodal Intrusion Detection System for Banking Financial Systems Using Combined Deep Learning Techniques • ID135: Abd El Ouadoud Khouri, Client Selection in Federated Learning for IoT: A Comparative Meta-Survey and Taxonomy Synthesis • ID136: Drame Karima, Strengthening the Robustness of Intrusion Detection Systems Against Adversarial Attacks • ID137: Lebboukh Houssem Eddine, Quantifying SHAP-LIME Agreement Across Model Families and Datasets for Intrusion Detection • ID140: Ahlam Ould Khesal, ImmunoDefender: A Bio-Inspired Cascaded Algorithm for Social Engineering Attack Detection	
10:30 - 11:00	**P3 | Main Conference Room** **Cryptography, Privacy, and Trusted Digital Systems** • Belayadi Djahida • Zohra Remil • Fella Cheikh • Moufek Hamza	**P4 | Main Library** **Cybersecurity Governance, Policies and Applications** • Yasser Moussa Berghout • Meriem Hadi • Djamel Benyahi • Yacine Zerrouki
11:00 - 13:00	**S5 | Main Conference Room** **Cryptography, Privacy, and Trusted Digital Systems** • ID48, Maamar Ouladj, Multivariate Correlation Coefficients as distinguishers of Side-Channel Attacks • ID60: Raid Dekkar, Security-Performance Trade-offs in Hybrid Classical-Post-Quantum Key Establishment • ID54: Salaheddine Bougouffa, A Side-Channel-Hardened Boolean Filter Layer for Defense-in-Depth Stream Encryption • ID57: Imadeddine Berrabah, A Compact Vectorial Filtering Functions for Resource-Constrained Embedded Cryptography	**S6 | Main Library** **Cybersecurity Governance, Policies and Applications** • ID61: Sara Belhadj, Two-Stage Retrieval for Algerian Arabic Cybersecurity Legislation • ID84: Mohammed Lanani, Cyber-Defense Strategies in Islamic FinTech: A Shariah-Aligned Framework for Cybersecurity Governance and Risk Management • ID114: Bendouma Rekia, Cybersecurity and Service Assurance in Integrated QKD-Classical Networks: A Structured State-of-the-Art Synthesis and Provisional Research Directions for Algeria • ID28: Yasmine Cherfaoui, Cyber-Resilient Supply Chain Design: A Bi-Objective MILP Framework with AUGMECON and GWO-Optimized LightGBM Risk Prediction • ID62: Samira Bokhari, Autonomous Cybersecurity Portfolio Optimization for IoT and IIoT Using Hybrid Artificial Intelligence and Robust Multi-objective Optimization

DAY 2: THURSDAY | 26 NOVEMBER 2026 / CONTINUED

13:00 - 14:30	Main Conference Room & 4th Floor of the Main Library **Lunch Break**	
14:30 - 16:00	**S7 | Main Conference Room** **Cryptography, Privacy, and Trusted Digital Systems** • ID80: Oko Abagha Lawrence, FS-3Tier-AKA: A Lightweight Authentication and Key Agreement Protocol with Perfect Forward Secrecy for Edge-Fog–Cloud Architectures in Smart Cities • ID100: Mohamed Chetouane, Performance Evaluation of a DNA–Feistel Component of a Hybrid ECC-DNA Architecture on ESP32-C3 for MQTT-Based IoT Communications • ID83: Kaouthar Hani, FinTech and Follow the Money: An Empirical Analysis of Real Ransomware Payment Patterns in the Bitcoin Ecosystem • ID85: Youcef Dahmani, A survey of standardized NIST Post-Quantum Cryptography Protocol: Kyber ML-KEM	**S8 | Main Library** **Cybersecurity Governance, Policies and Applications** • ID104: Chekroud Kamelia, Security-Aware Human-in-the-Loop Reinforcement Learning for Job-Shop Scheduling under False Data Injection Attacks • ID121: Lamia Berkani, Transformer-Based Rumour Detection in Algerian Dialect Social Media Content for the Telecommunications Domain • ID81: Massyl Benarab, SCOPE: Structural Constraints on Proposer Election in Permissioned BFT Systems • ID26: Salim Salah Belaifa, Introduction to Information Theoretic Security
16:00 - 17:00	Conference Room of the NSCS **Closing Ceremony**	