



Conference Program

Monday, 24 November 2025 (Associated workshop)

13:30 - 17:00: Workshop "Women in cybersecurity"

Tuesday, 25th November 2025

9:00 – 9:30	Registration and coffee
9:30 – 9:50	Opening remarks
9:50 – 10:50	Keynote 1: Olivier Jacq (Diateam)
10:50 – 11:15	Coffee Break
11:15 – 12:30	Session 1
12:30 – 13:45	Lunch
13:45 – 15:20	Session 2
15:20 – 15:45	Coffee Break
15:45 – 17:45	Session 3
18:45 – 20:45	Cocktail

Wednesday, 26th November 2025

9:00 – 10:00	Keynote 2: Kave Salamatian (Savoie University)
10:00 – 10:30	Coffee Break
10:30 – 12:30	Session 4
12:30 – 13:45	Lunch
13:45 – 15h40	Session 5 : Industrial Track
15:40 – 15:55	Coffee Break
15:55 – 17 :45	Session 6
18:45 – 22:00	Social Event

Thursday, 27th November 2025

9:00 – 11:00	Session 7
11:00 – 11:30	Coffee Break
11:30 – 12:30	Keynote 3 : Raphael Khoury (University of Quebec in Outaouais - UQO)
12:30 – 13:45	Lunch
13:45 – 15:50	Session 8
15:50 – 16:15	Closing remarks

Details about sessions :

Tuesday, 25th November

11:15 – 12:30

Session 1: Security, Privacy, and Trust in Blockchain & Emerging Distributed Systems

Session Chair: Johanne Vincent

Time	Authors	Title
11:15 - 11:35	Pierre Saha Fobougong , Mohamed Mejri and Kamel Adi	Towards A Pragmatic Selection Of Self-Sovereign Identity Security Measures : Exploiting Mitre Att&ck Graph And Multi-criteria Optimization
11:35 - 11:55	Petr Dzurenda, Minh Tran , Mubashar Iqbal, Sara Ricci, Vaclav Stupka, Raimundas Matulevicius and Lukas Malina	ForensicChain: Blockchain-based Secure Digital Forensic Investigations
11:55 - 12:15	Jan Ariel Ocampo , Lejla Islami and Mina Alishahi	Privacy-Preserving Federated Learning for IoT Intrusion Detection in 6G Networks
12:15 - 12:30	Remi Barbier , Francoise Sailhan, Alexandre Reiffers-Masson and Loic Machado	Scaling Blockchains with zk-Rollups: State of the Art and Implementation

13:45 – 15:20

Session 2: Cyber Resilience and Risk Management in Enterprise Architectures

Session Chair: Reda Yaich

Time	Authors	Title
13:45 - 14:05	Francis Wanko Naa , Nora Boulahia-Cuppens and Frederic Cuppens	Eliciting metrics and evaluating cyber resilience of a capability in multilayer enterprise architecture
14:05 - 14:25	Arslane Fawzi Halilou and Natalia Stakhanova	Predicting IoT Security Vulnerabilities from Device Specifications
14:25 - 14:45	N'Famoussa Kounon Nanamou, Neda Baghalizadeh-Moghadam, Kéren A Saint-Hilaire, Thibault Leblanc, Nora Cuppens, Frédéric Cuppens and Anis Bkakria	Real-Time Insider Threat Hunting Based on Dynamic Risk Indicators
14:45 - 15:05	Babacar Mbaye and Mohamed Mejri	Optimizing Resilience in IT Architectures : A Multi-Objective Ontology-Based Approach
15:05 - 15:20	Barbara Carminati, Elena Ferrari, Christian Rondanini, Azhar Muhammad Shahid and Luca Clementi	COBRA-Z: Collaborative Blockchain Risk Assessment for Zero Trust Architecture

15:45 – 17:45

Session 3: Formal Methods and Automated Analysis for Secure Software Systems

Session Chair: Kassem KALLAS

Time	Authors	Title
15:45 - 16:05	Yekaterina Churakova , Mathias Ekstedt and Larissa Schmid	Vexed by VEX Tools: Consistency Evaluation of Container Vulnerability Scanners
16:05 - 16:25	Alberto Tacchella , Jurij Mihelič, David Cerdeira, José Martins, Sandro Pinto, Bruno Crispo and Marco Roveri	Towards a formal verification of the Bao Hypervisor
16:25 - 16:45	Luis Soeiro , Thomas Robert and Stefano Zacchiroli	Finding Software Supply Chain Attack Paths with Logical Attack Graphs
16:45 - 17:05	Rémi Garcia , Paolo Modesti and Leo Freitas	From provable models to provable implementations: translating Alice & Bob security protocols to F*
17:05 - 17:25	Quentin Goux and Nadira Lammari	Automatic Attack Script Generation: a MDA Approach
17:25 - 17:45	Ludjina Benoit, Rim Ben Salem , Nora Boulahia-Cuppens and Frédéric Cuppens	Mining Reliable ABAC Policies: A Specificity and Confidence-Aware Extension of Rhapsody

Wednesday, 26th November

10:30 – 12:30

Session 4: ML and Intelligent Systems for Attack Detection and Trust Evaluation

Session Chair: Ranwa Al Mallah

Time	Authors	Title
10:30 - 10:50	Antoine Rebstock, Yann Busnel and Romaric Ludinard	A Grammar-Driven Approach to Model and Detect APT Attack Sequences
10:50 - 11:10	Bastien Vuillod , Pierre-Alain Moellic and Jean-Max Dutertre	Watch Out for the Lifespan: Evaluating Backdoor Attacks Against Federated Model Adaptation
11:10 - 11:30	Seán Óg Murphy , Utz Roedig and Cormac Sreenan	Systematic Security Context Weighting for Trust Algorithms via AI/ML Model Performance Analysis
11:30 - 11:50	Kobra Khanmohammadi, Pooria Roy, Raphael Khoury , Abdelwahab Hamou-Lhadj and Wilfried Patrick Konan	WildCode: An Empirical Analysis of Code Generated by ChatGPT
11:50 - 12:10	Miguel Silva , Daniela Pinto, João Vitorino, Eva Maia, Isabel Praça, Ivone Amorim and Maria Viamonte	Binary and Multiclass Cyberattack Classification on GeNIS Dataset
12:10 - 12:30	Bassirou Badiane , Valerie Viet Triem Tong and Yufei Han	Towards Automated Botnet Threat Intelligence with Knowledge-Guided Large Language Models

13:45 – 15:40

Session 5: Industrial Track

Session Chair: David Espes

Time	Authors	Title
13:45 - 14:05	Pierre Mahieux , Mouhamadou Bamba Sakho, Gouenou Coatrieux and Reda Bellafqira	An Improved Paillier-Based Reversible Watermarking Scheme for 3D Models with Reduced Complexity
14:05 - 14:25	Yeoh Wei Zhu , Shaltiel Eloul, Yash Satsangi, Imran Bashir and Sudhir Upadhyay	Towards adoption of private distributed ledgers for capital markets
14:25 - 14:40	Florence Sèdes and Brice Chellet	Dynamic Multilayer Information System Cartography for Cybersecurity, Compliance and Industrial Governance
14:40 - 15:00	Francesco Ferazza and Konstantinos Mersinas	Socio-Technical Friction: An Emergent Grounded Theory of DevSecOps Challenges
15:00 - 15:20	Tanja Pavleska , Giovanni Paolo Sellitto, Helder Aranha and Massimiliano Masi	Secure-by-Design Architectures for Cooperative Intelligent Transport Systems
15:20 - 15:40	Leonie Wolf , Samson Umezulike, Gurur Öndarö, Sebastian Schinzel and Fabian Ising	Practical Evaluation of the Crypto-Agility Maturity Model

15:55 – 17:45

Session 6: Advances in Privacy-Preserving Cryptography and Secure Computation

Session Chair: Joaquin Garcia-Alfaro

Time	Authors	Title
15:55 - 16:15	Yuan Liang , Giovanni Di Crescenzo and Haining Wang	Sender-Efficient Identity-Based Encryption with Reduced Server Trust in the Key Curator Model (Online)
16:15 - 16:35	Shohei Kaneko , Yang Li, Kazuo Sakiyama and Daiki Miyahara	Counterfeit Coin Problem Can Be Extended to Secure Multiparty Computation
16:35 - 16:55	El Hadji Mamadou Dia, Walid Arabi , Anis Bkakria and Reda Yaich	StrawHat: Private Non-Interactive Gradient Boosting Decision Tree Evaluation Based on Homomorphic Encryption
16:55 - 17:15	Nicolas Quero , Renaud Sirdey, Aymen Boudguiga, David Pointcheval, Quentin Sinh and Nadir Karam	Scalable privacy-preserving database queries with FHE and PEKS
17:15 - 17:30	Marc Damie , Mihai Pop and Merijn Posthuma	Energy Consumption of TLS, Searchable Encryption and Fully Homomorphic Encryption
17:30 - 17:45	Augustin P. Sarr	An Embarrassingly Parallel Cryptanalysis of EC(H)MQV

Thursday, 27th November

09:00 – 11:00

Session 7: Secure and Intelligent Network Architectures for Next-Generation Communications

Session Chair: Omar Mawloud

Time	Authors	Title
9:00 - 9:20	Alex Pierron , Michel Barbeau, Luca De Cicco, Jose Manuel Rubio Hernan and Joaquin Garcia-Alfaro	A Fairness-Aware Strategy for B5G Physical-layer Security Leveraging Reconfigurable Intelligent Surfaces
9:20 - 9:40	Lucas Schrass , Yu Shen and Stefanie Roos	APADV: Anonymous Proactive Distance Vector Routing in Connectivity-Restricted Environments
9:40 - 10:00	Andrea Fulgence Ndreveloarisoa , Frédéric Guidec and Mawloud Omar	A secure lightweight system based on device-to-device communication for objects sharing in local communities
10:00 - 10:20	Matthew Bush, Dave McKay and Atefeh Mashatan	Consumer Zero Trust: Towards a Principled Adaptation of Zero Trust for Consumer Networks
10:20 - 10:40	João Vitorino , Daniela Pinto, Eva Maia, Ivone Amorim and Isabel Praça	Revisiting Network Traffic Analysis: Compatible Network Flows for ML Models
10:40 - 11:00	Hocine Attoumi , Etienne Gael Tajeuna and Mohand Said Allili	Causal Graph Modeling of Network Traffic for Early Cyberattack Prediction

13:45 – 15:50

Session 8: Secure, Explainable, and Efficient Machine Learning in Cybersecurity

Session Chair: Francoise Sailhan

Time	Authors	Title
13:45 - 14:00	Ananta Raha , Junaeid Ahmed, Md Shohrab Hossain and Suryadipta Majumdar	Defending Model Inversion Attack Using an Improved Filter-Based Approach
14:00 - 14:20	Muhammed Tahir Akdeniz, Zeynep Yesilkaya, Ibrahim Enes Kose, Ismail Ulas Unal and Sevil Sen	VOLTRON: Detecting Unknown Malware Using Graph-Based Zero-Shot Learning
14:20 - 14:40	Alexandre Dohin , Karim Zkik, Omar Mawloud and Abdellah Akilal	Deep Learning-Driven Energy Auditing for Smart Grid Cyberattack Detection
14:40 - 14:55	Saba Kasrelou , Samuel Pierre and Ranwa Al-Mallah	Verifiability of Unlearning Schemes Through Local Explanation
14:55 - 15:10	Myria Bouhaddi , Feriel Sadoun and Kamel Adi	Anomaly-Aware Aggregation for Robust Peer-to-Peer Machine Learning
15:10 - 15:30	Shuaishuai Liu, Gergely Acs and Gergely Biczók	Interdependent Privacy in Smart Homes: Hunting for Bystanders in Privacy Policies
15:30 - 15:50	Daphnee Chabal , Dolly Sapra, Cees de Laat and Zoltan Mann	QUOKKA: Faster Secure Neural Network Inference with Early-Exit Technology



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