

## PROGRAM

### Thursday, February 29, 2024

**8:30 – 9:00 – Registration (Amphitheater Jean-Baptiste Say, 292 rue Saint Martin, Paris, Métro station : Réaumur Sébastopol)**

**9:00 – 9:15 – Opening conference**

**9:15 – 10:15 – Keynote Session : Dr Soumya Banerjee**

*Securing the Future: Addressing Cybersecurity Risks in Large Language Models*

**Prof. Youakim Badr (Pennsylvania State University, USA)**

**10:15 – 10:30 Coffee Break**

**10:30 – 12:00 Session 1 on Security and Communication (session chair: Dr Soumya Banerjee)**

**10:30 “SPAWN: Seamless Proximity-based Authentication by Utilizing the Existent WiFi Environment”**

**Philipp Jakubeit** (University of Twente, The Netherlands), **Andreas Peter** (Carl von Ossietzky Universität, Germany) and **Maarten van Steen** (University of Twente, The Netherlands)

**11:00 “MQfilTr: Strengthening Smart Home Privacy through MQTT Traffic Manipulation”**

**Henrich C. Pöhls, Sven Gebauer, Fabian Scharnböck, Korbinian Spielvogel and Joachim Posegga** (University of Passau, Germany)

**11:30 “Combining Cryptography and Discrete-Event Systems to Study Sensor and Actuator Cyberattacks”**

**Ahmed Khoumsi** (University of Sherbrooke, Canada), **Mohammed Erradi** (ENSIAS, Morocco) and **Fahd Adni** (Henceforth, Morocco)

**12:00 – 13:30 Lunch**

**13:30 – 14:30 – Keynote Session: Prof. Samia Bouzefrane**

*Electromagnetic Security : when Maxwell meets Bell-Lapadula*

**Dr. José Lopes Esteves (ANSSI, France)**

**14:30 -15h45 – Session 2: Security analysis (Session chair: Prof. Samia Bouzefrane)**

**14:30** “*Towards Interconnected Quantum Networks: A Requirements Analysis*”

**Swantje Kastrup and Nils Gentschen Felde** (University of the Bundeswehr Munich, Germany)

**15:00** “*A similarity approach for the classification of mitigations in public cybersecurity repositories into NIST-SP 800-53 catalog*”

**Ahmed Elmarkez** (SEGULA technologies/Univ. Bretagne-Sud (UBS), France), **Soraya Mesli Kesraoui** (SEGULA technologie, France), **Flavio Oquendo** (Univ. Bretagne-Sud, France), **Pascal Berruet** (Univ. Bretagne-Sud, France) and **Djamal Kesraoui** (SEGULA technologie, France)

**15:30** “*Top Cyber Threats: The rise of Ransomware*”

**Amir Djenna** (University of Constantine 2, Algeria), **Mohamed Belaoued** (Université de Reims Champagne-Ardenne, France) and **Nourdine Lifa** (University of Constantine 2, Algeria)

**16:00 Coffea break**

**19:00 Special Diner (Restaurant PARIS PARIS, 8 Rue de Montfaucon 75006 Paris)**

**Metro line 4-Stop: Saint-Germain-des-Prés**

## Friday, March 1st, 2024

**9:15 – 10:15 – Keynote Session (Dr José Lopes Esteves)**

*50 years of Secure Elements Technology*

**Prof. Pierre Paradinas (Cnam, France) & Jean-Jacques Quisquater (UCL, Belgium)**

**10:15 – 10:30 Coffee Break**

**10:30 – 12:00 Session 3 on Blockchain (session chair: Dr. José Lopes Esteves)**

**10:30** *“Enhancing security in Blockchain enabled IoT networks empowered with zk-SNARKs and Physically Unclonable Functions”*

**Soumya Banerjee** (Trasna Solutions, France), **Pranav Unni** (Amity university, India) and **Samia Bouzefrane** (Cnam, France)

**11:00** *“Security Challenges and Countermeasures in Blockchain's Peer-to-Peer Architecture”*

**Hussein Kazem** (Cnam/ISEP/Sopra, France), **Nour El Madhoun** (ISEP, France), **Samia Bouzefrane** (Cnam, France) and **Pierrick Conord** (Sopra, France)

**11:30** *“A Bitcoin-based Digital Identity Model for the Internet of Things”*

**Youakim Badr** (Pennsylvania State University, USA), **Xiaoyang Zhu** (INSA-Lyon, France), **Samia Bouzefrane** (Cnam, France) and **Soumya Banerjee** (Trasna Solutions, France)

**12:00 – 13:30 Lunch Break**

**13:30 – 14:30 – Keynote Session : Prof. Youakim Badr**

*Title : Post-quantum cryptography everywhere very soon for everybody*

**Prof. Jean-Jacques Quisquater, Professor at (Belgium)**

**14:30– 16:00 Session 4 on Privacy (session chair: Prof. Youakim Badr)**

**14:30** *“Towards a Time-dependent Approach for User Privacy Expression and Enforcement”*

**Nouredine Tamani** (ISEP, France)

**15:00** “*Privacy preserving Federated Learning : A novel approach for combining Differential Privacy and Homomorphic Encryption*”

**Rezak Aziz** (Cnam, France), **Soumya Banerjee** (Trasna Solution, France) and **Samia Bouzefrane** (Cnam, France)

**15:30** “*Distributed Backdoor Attacks in Federated Learning Generated by Dynamic Triggers*”

**Jiang Wang** (Macao Polytechnic University, China) and **Hong Shen** (Central Queensland University, Australia)

**16:00 – Coffee break**

**18:00 – Visit of the Museum of Arts and Crafts (free entry)**