

SINCONF 2022 > Friday, 11 th of November		
13:00 - 14:30	Registration and Opening	
14:30- 14:45	Welcome from the general conference chair	
14:45 – 15:30	Keynote Speech 1: Random Neural Networks Optimise QoS, Security and Energy Consumption Keynote Speaker: Erol Gelemb, Polish Academy of Sciences	
15:30 –16:00	Keynote Speech 2: Intrusion detection systems using machine learning for the security of autonomous vehicles Keynote Speaker : Abdelwahid Derhab, King Saud University, Saudi Arabia	
16 :00-16-30	Coffee Break	
	Session 1: Mitigating Attacks Session chair: Pr. Atilla Elci	
16:30-16:50	Andikan Otung and Andrew Martin	Towards Comparative Evaluation of DDoS Defences
16:50-17:10	Ouissem Ben Fredj	A NLP-inspired method to predict multi-step cyberattacks
17:10-17:30	Ali Kerem Yıldız, Aykut Atmaca, Ali Özgür Solak , Yekta Can Tursun and Şerif Bahtiyar	A Trust Based DNS System to Prevent Eclipse Attack on Blockchain Networks
17:30-17:50	Chidera Biringa and Gokhan Kul	A Secure Design Pattern Approach Toward Tackling Lateral-Injection Attacks
17:50-18:10	Anne Bumiller, Olivier Barais and Nicolas Aillery	Towards a Better Understanding of Impersonation Risks
18:10-18:30	Moez Krichen, Mariam Lahami and Qasem Abu Al-Haija	Formal Methods for the Verification of Smart Contracts: A Review
18:30-18:50	Thiago Figueiredo Costa and Mateus Felipe Tymburibá	Challenges on Prioritizing Software Patching
SINCONF 2022 > Saturday, 12 th of November		
08:00-08:30	Day Opening Remarks	
08:30 – 09:00	Keynote speech 3 : Cyber Security Threat Landscape in the Context of Industry 4.0 Keynote Speaker: Haider Abbas, NCSAEL, USA	
09:00 - 09:40	Keynote speech 4: Introducing Homomorphic Encryption in Blockchain-enabled Applications Keynote Speaker: Mohamed Hamdi, University of Carthage, Tunisia	
	Session 2: Blockchain Session chair: Pr.Mohamed Hamdi	
09:40-10:00	Bessem Zaabar, Omar Cheikhrouhou and Mohamed Abid	Intrusion Detecion System for IoMT through Blockchain-based Federated Learning
10:00-10:20	Murshedul Arifeen and Andrei Petrovski.	Topology for Preserving Feature Correlation in Tabular Synthetic Data
10:20 - 10:45	Coffee Break	
	Session 3: Security Systems Session chair: Habib Youssef	
10:45-11:05	Dmitriy Levonevskiy, Anna Motienko and Mikhail Vinogradov.	Approach to Physical Access Management, Control and Analytics Using Multimodal and Heterogeneous Data
11:05-11:25	Abdelhamid Saighi and Salim Chitroub.	Robust Grayscale Image Watermarking Approach using DCT and DWT
11:25-11:45	Eliás Grande	Social Behaviour Identification relying on Device Fingerprint Analysis
11:45-12:05	Cristian Chindrus and Constantin F. Caruntu	Development and Testing of a Core System for Red and Blue Scenario in Cyber Security Incidents
12:05-12:25	Mariem Turki, Bouthaina Dammak and Rawya Mars	A Private Smart Parking Solution based on Blockchain and AI
12:25-12:45	Mays A. Hamdan, Amel Meddeb Makloul and Hassene Mnif	Review of Authentication with Privacy-Preserving Schemes for 5G-enabled Vehicular Networks
12:45 - 14:15	Lunch Break	
14:15 – 14:45	Keynote speech 5: Scaling Blockchains	

Keynote Speaker: Abdelhakim Senhaji Hafidh, University of Montreal, Canada

Session 4: machine learning for Security
Session chair: Prof. Dmitriy Levonevskiy

14:45-15:05	<i>Ines Jemal, Mohamed Amine Haddar, Omar Cheikhrouhou and Adel Mahfoudhi.</i>	<i>SWAF: A Smart Web Application Firewall Based on Convolutional Neural Network</i>
15:05-15:25	<i>Amina Sahbi, Faouzi Jaidi and Adel Bouhoula</i>	<i>Artificial Intelligence for SDN Security: Analysis, Challenges</i>
15:25-15:45	<i>Ciprian-Alin Simion, Gheorghe Balan and Dragos Gavrilit</i>	<i>Improving Detection of Malicious Samples by using State-of-the-Art Adversarial Machine Learning Algorithms</i>
15:45-16:05	<i>Ratun Rahman, Md Rafid Islam and Akib Ahmed.</i>	<i>A Study of Permission-based Malware Detection Using Machine Learning</i>

16:05- 16:30 *Coffee Break*

Session 5: Short papers
Session chair: Dr. Elías Grande

16:30-16:45	<i>Sabrina Bhiri, Kais Loukil, Faten Chaabane and Tarek Frikha</i>	<i>Blockchain Application for Parking Management</i>
16:45-17:00	<i>Hedi Choura, Faten Chaabane, Mouna Baklouti and Tarek Frikha</i>	<i>Blockchain for IoT-Based Healthcare using Secure and Privacy-Preserving Watermark</i>
17:00-17:15	<i>Héla Makina, Asma Ben Letaifa and Abderrezak Rachedi</i>	<i>Leveraging Edge Computing, Blockchain and IPFS for Addressing eHealth Records Challenges</i>
17:15-17:30	<i>Lotfi Ezzeddini, Jalel Ktari, Iheb Zouaoui, Amira Talha, Nizar Jarray and Tarek Frikha.</i>	<i>Blockchain for the Electronic Voting System : a Case study : Student Representative Vote in Tunisian Institute</i>
17:30-17:45	<i>Ahmed Abadulla Ashlam, Atta Badii, Frederick Stahl</i>	<i>Multi-Phase Algorithmic Framework to Prevent SQL Injection Attacks using Improved Machine Learning and Deep Learning to Enhance Database Security in Real-Time</i>
17:45-18:00	<i>Omar Cheikhrouhou, Ouissem Ben Fredj, Nesrine Atitallah and Salem Hellal</i>	<i>Intrusion Detection in Industrial IoT</i>
18:00-18:15	<i>Mehdi Houichi, Faouzi Jaidi and Adel Bouhoula.</i>	<i>Analysis of Smart Cities Security: Challenges and Advancements</i>
18:15-18:30	<i>Siegfried Hollerer, Marta Chabrova, Thilo Sauter and Wolfgang Kastner</i>	<i>Combined Modeling Techniques for Safety and Security in Industrial Automation: A Case Study</i>
18:30-18:45	<i>Mays Jabbar and Hafedh Trabelsi.</i>	<i>A Betweenness Centrality Based Clustering in VANETs</i>

SINCONF 2022 > Sunday, 13th of November

09:00 - 10:00 *Keynote speech 6: Cybersecurity of connected Vehicules*
Keynote Speaker: Mohamed Mosbah, Polytechnic Institute of Bordeaux

Session 6: Security Systems
Session chair: Mohamed Mosbah

10:00-10:20	<i>Liudmila Babenko and Ilya Rusalovsky</i>	<i>Homomorphic Operations on Integers via Operations on Bits</i>
10:20-10:40	<i>Silviu-Constantin Vişel, Marilena Lupaşcu, Dragoş Teodor Gavriliuţ and Henri Luchian</i>	<i>Evolution of Macro VBA Obfuscation Techniques</i>
10:40-11:00	<i>Sondes Ksibi, Faouzi Jaidi and Adel Bouhoula.</i>	<i>A User-Centric Fuzzy AHP-based Method for Medical Devices Security Assessment</i>

11:00-11:30 *Coffee Break*

11:30-12 :00 **Closing Ceremony**

12:00 -13 :00 *Room Check-out and Lunch Break*

13 :00- *Cultural activities*