The 11th IFIP International Conference on New Technologies, Mobility and Security (NTMS 2021)

→ PROGRAM



The 2021 11th IFIP International Conference on New Technologies, Mobility and Security

Program

Monday, April 19		
09:00 am – 09:30 am	Opening Session	
09:30 am – 11:00 pm	NTMS Session 1	Workshop CyberSECHARD
11:15 pm – 12:30 pm	NTMS Session 2	Workshop CID
12:30 pm – 02:00 pm	Break	
02:00 pm – 03:40 pm	NTMS Session 3	Workshop BSC Session 1
04:00 pm – 06:00 pm	NTMS Invited Papers	Workshop BSC Session 1
06:00 pm – 06:10 pm	Cloture	

09:00 - 09:30

Opening Session

09:30 - 11:00

NTMS Session 1

Chair: Lorenzo Vangelista, University of Padova, Italy

Digital Forensic Investigation Process in Railway Environment

Jasmin Cosic; Christian Schlehuber; Drazen Morog

Performance Evaluation of Pseudonym Reload over Cellular Technology

Farah Haidar; Farah Braiteh; Brigitte Lonc; Arnaud Kaiser; Pascal Urien

TypoSwype: An Imaging Approach to Detect Typo-Squatting

Joon Sern Lee; David Yam

SDN Security through System Call Learning

Danai Chasaki; Christopher Mansour

CyberSECHARD

Chair: Nicolas Sklavos (University of Patras, Greece)

A Survey on the Application of Fault Analysis on Lightweight Cryptography

Patrick Karl; Michael Gruber

CORSICA: A Framework for Conducting Real-World Side-Channel Analysis

Jens Schlumberger; Stefan Wildermann; Jürgen Teich

Electromagnetic Fields as a Sign of Side-Channel Attacks in GSM Module

Alla Levina; Vladimir Vladimirovich Gustov

FFT based Horizontal SCA Attack against ECC

Zoya Dyka; Dan Klann; levgen Kabin; Marcin Aftowicz; Peter Langendoerfer

Towards An SDN Assisted IDS

Robert Sutton; Robert Ludwiniak; Christos Chrysoulas; Nikolaos Pitropakis; Tasos Dagiuklas

11:15 - 12:30

NTMS Session 2

Chair: Layth Sliman, EFREI Engineering School, France

Securing Building Automation Systems

Johannes Goltz

Game Theoretical Model for Cybersecurity Risk Assessment of Industrial Control Systems
Mohamed Nassar; Joseph Khoury; Abdelkarim Erradi; Elias Bou-Harb

Privacy-preserving and Efficient Aggregation for Smart Grid based on Blockchain. Mohamad Badra, Rouba Borghol

Scalable Wi-Fi Intrusion Detection for IoT Systems

Faik Kerem Örs; Mustafa Aydın; Aysu Boğatarkan; Albert Levi

Auditchain: a mechanism for ensuring logs integrity based on proof of existence in a public blockchain

Bruno de Azevedo Mendonça; Paulo Matias

CID Workshop

Chair: Farkhund Iqbal (Zayed University, UAE)

Discord Server Forensics: Analysis and Extraction of Digital Evidence

Farkhund Iqbal; Michal Motylinski; Aine MacDermott

Cyber Forensics Tools: A Review on Mechanism and Emerging Challenges

Vihara Fernando

Security Assessment for Zenbo Robot Using Drozer and mobSF Frameworks

Benjamin Yankson; Patrick C. K. Hung; Farkhund Iqbal; Liaqat Ali

WhatsApp Network Forensics: Discovering the IP Addresses of Suspects

Waqas Ahmed; Faisal Shahzad; Abdul Rehman Javed; Farkhund Iqbal; Liaqat Ali

12:30 - 14:00

Break

14:00 - 15:40

NTMS Session 3

Chair: Ibrabim Hajjeh (FanSEC, France)

An empirical evaluation of QoME for NMP

Konstantinos G Tsioutas; George Xylomenos; Ioannis Doumanis

Performance Evaluation of Transmission Mode Selection in D2D communication

Iacovos Ioannou; Christophoros Christophorou; Vasos Vassiliou; Andreas Pitsillides

Exploring the energy efficiency for Search and Rescue operations over LoRa

Christos J Bouras; Apostolos Gkamas; Spyridon Aniceto Katsampiris Salgado

Energy-efficient Protection of IoT Networks using Trust Management on the IEEE 802.15.4 Protocol

Zeeshan Ali Khan; Peter Herrmann

An Internet of Things (IoT) Homecare Management System Using Cardiac Arrhythmia Classification

Areej Almazroa; Hongjian Sun

BSC Workshop

Chair: Kalpana Singh, IRT SystemX, France

Anonymous Fair Auction on Blockchain

Gaurav Sharma; Denis Verstraeten; Vishal Saraswat; Jean-Michel Dricot; Olivier Markowitch

A Private Key Recovery Scheme Using Partial Knowledge

Har Preet Singh; Kyriakos Stefanidis; Fabian Kirstein

Secure Distributed Medical Record Storage using Blockchain and Emergency Sharing Using Multi-Party Computation

Lohith Jyothinagara Jayaram; Sudarshan Parthasarathy; Kunwar Singh

Towards the Identification of Security Tokens on Ethereum

Monika di Angelo; Gernot Salzer

A GDPR-Compliant Framework for IoT-Based Personal Health Records Using Blockchain

Bandar Alamri; Tiziana Margaria; Ibrahim Tariq Javed

SpeedChain: A framework for Monitoring and Alerting blockchain projects

Mouad Fakhri, Baptiste Zegre, Nouha Omrane, Rakia Jaziri

16:00 -18:00

NTMS Invited Papers

Chair: Layth Sliman, EFREI Engineering School, France

Differential Evolution for VNE-5G Scenarios

Rayner Gomes; Dario Vieira; Miguel Franklin de Castro

5G Network Slice - A URLLC Resource Allocation Perspective

Christiano A. P. Rodrigues; Dario Vieira; Miguel F. de Castro

Massive MIMO mmWave Full Duplex Relay for IAB with Limited Dynamic Range

Chandan Kumar Sheemar; Dirk Slock

Extending the Lora modulation to add parallel channels and improve the LoRaWAN network performance

Lorenzo Vangelista; Alessandro Cattapan

An Innovative and Decentralized Identity Framework Based on Blockchain Technology

Daniel Maldonado-Ruiz; Jenny Torres; Nour El Madhoun; Mohamad Badra

Smart Contract Based Solution for Secure Distributed SDN

Mouhamad Almakhour; Ayoub Wehby; Layth Sliman, Abdellatif Samhat

BSC Workshop

Chair: Khalifa Toumi, IRT SystemX, France

Blockchain Development Platforms: Performance Comparison

Iman R Dernayka; Ali Chehab

Evaluation of Ethereum End-to-end Transaction Latency

Lin Zhang; Brian Lee; Yuansong Qiao; Yuhang Ye

Blockchain based Resource Tokenization for Crowdfunding of Wireless Network Deployment

Volkan Sevindik

Visual Analytics of Bitcoin Mining Pool Evolution: On the Road Toward Stability?

Natkamon Tovanich; Nicolas Soulié; Petra Isenberg

Implementation of Proof-of-Work Concept Algorithm using SimBlock Simulator

Viddi Mardiansyah, Riri Fitri Sari

18:00 - 18:10

Cloture

Guidelines to Access the Conference and Workshops Zoom link

Step one: Please make sure to install zoom and to create a zoom account.

Step two: on Monday, April 19, 9:00 am, Paris Time (GMT + 2), you are all invited to attend the opening session. Following the Opening session, there will be 2 sessions in parallel as per the program. To join a given session, please refer to the figure below: you click on "More" to see the list of breakout session, a list of different session appears, you click on join to enter the desired breakout session.

The Zoom link is: https://zoom.us/j/91956716677?pwd=YnNuYWJOS25KOTV6UDhlcVZDUjFadz09

