

**Tuesday, July 14, 2026**

**Session-ACR-4      Cybersecurity Engineering**  
**08.00-10.00, July 14, 2026 (In-person)**

**Session Chair:      Li-jing Arthur Chang**  
Jackson State University, USA

**08.00-08.20**      Consensus-Based Feature Selection Approach for Machine Learning  
Intrusion detection systems  
**Ahmad Taha Hamarshe**<sup>1</sup>, Mohammad M N Hamarsheh<sup>2</sup>, and Ahmad  
Hassasneh<sup>3</sup>  
<sup>1</sup>Department of cybersecurity, Faculty of graduate studies, Arab American  
University, Ramallah, Palestine.  
<sup>2</sup>Department of Computer Science and networks security, Faculty of  
information technology, Arab American university, Jenin, Palestine.  
<sup>3</sup>Department of Engineering and Technology Sciences, Arab American  
University, Ramallah, Palestine

**08.20-08.40**      Federated Edge Intelligence with Blockchain Anchoring for Privacy-  
Preserving Smart Mobility over 5G  
**Manuel J. C. S. Reis**<sup>1</sup>, Carlos Serôdio<sup>2</sup>, Luís Correia<sup>3</sup>, and Frederico  
Branco<sup>4</sup>  
<sup>1</sup>University of Trás-os-Montes e Alto Douro, Quinta de Prados, Portugal  
<sup>2</sup>University of Trás-os-Montes e Alto Douro, Quinta de Prados, Portugal  
<sup>3</sup>Up Motion, Edifício Incubadora de Empresas Capital Douro, Avenida  
Barão de Forrester, Portugal  
<sup>4</sup>University of Trás-os-Montes e Alto Douro, Quinta de Prados, Portugal

**08.40-09.00**      A Privacy-Preserving and Explainable Method for (Obfuscated) Malware  
Detection in Android Environment  
**Francesco Mercaldo**<sup>4,1</sup>, Sebastian Schrittwieser<sup>2</sup>, Patrick Kochberger<sup>3</sup>,  
Marta Petyx<sup>6</sup>, Patrizia Agnello<sup>6</sup>, Antonella Santone<sup>4</sup>, Fabio Martinelli<sup>5</sup>,  
and Paul Tavalato<sup>1</sup>  
<sup>1</sup>Faculty of Computer Science, University of Vienna, Vienna, Austria  
<sup>2</sup>Christian Doppler Laboratory for Assurance and Transparency in  
Software Protection, University of Vienna, Vienna, Austria  
<sup>3</sup>Department of Computer Science and Security, St. Pölten University of  
Applied Sciences, Sankt Pölten, Austria  
<sup>4</sup>Department of Medicine and Health Sciences “Vincenzo Tiberio”,  
University of Molise, Campobasso, Italy  
<sup>5</sup>Institute of High Performance Computing and Networking, National  
Research Council of Italy (CNR), Rende, Italy  
<sup>6</sup>Istituto Nazionale per l’Assicurazione contro gli Infortuni sul Lavoro,  
Roma, Italy

- 09.00-09.20 A Method for Packed Malware Detection and possible Payload Identification through Convolutional Neural Networks  
Paul Tavolato<sup>1</sup>, Sebastian Schrittwieser<sup>2</sup>, Patrick Kochberger<sup>3</sup>, Antonella Santone<sup>4</sup>, Fabio Martinelli<sup>5</sup>, and **Francesco Mercaldo**<sup>4,1</sup>  
<sup>1</sup>Faculty of Computer Science, University of Vienna, Vienna, Austria  
<sup>2</sup>Christian Doppler Laboratory for Assurance and Transparency in Software Protection, University of Vienna, Vienna, Austria  
<sup>3</sup>Department of Computer Science and Security, St. Pölten University of Applied Sciences, Sankt Pölten, Austria  
<sup>4</sup>Department of Medicine and Health Sciences “Vincenzo Tiberio”, University of Molise, Campobasso, Italy  
<sup>5</sup>Institute of High Performance Computing and Networking, National Research Council of Italy (CNR), Rende, Italy
- 09.20-09.40 On a Single-Variable Construction of Pythagorean Quadruples and a Symmetric Encryption Application  
**Nadav Voloch**  
Shamir Research Institute, Israel
- 09.40-10.00 Network Intrusion Detection System Using Raspberry Pi and Snort.  
Narsimulu Sakali, Ritesh Reddy Vanga, Shiva Krishna Kota, and **Alberto Arteta**  
Department of Computer Science, Troy University, Troy, AL 36082, USA
- 10.00-10.20 **FREE SLOT**
- 10.20-10.40 **BREAK**
- 10.40-11.40 [Keynote Speech: The Evolution of Software Engineering in the Era of Generative AI](#)  
**Professor Lerina Aversano**  
University of Foggia, Italy
- 11.40-12.00 **FREE SLOT**
- 12.00-01.20 **LUNCH BREAK (ON YOUR OWN)**
- 01.20-02.40 [Panel: Emerging trends in Computational Intelligence](#)  
*Moderator:* **Robert Polding**, IE University, Spain  
*Panelists:* **Murad Al-Rajab**, Abu Dhabi University, UAE  
**Li-jing Arthur Chang**, Jackson State University, USA  
**Dina Tbaishat**, University of Jordan, Amman, Jordan

02.40-03.00      **FREE SLOT**

03.00-03.20      **BREAK**

**Session-ACR-5      Data Analytics Engineering**  
**03.20-04.40, July 14, 2026 (In-Person)**

Session Chair:    Bjarne Berg  
University of North Carolina-Charlotte, USA

03.20-03.40      AI Adoption in Technology Firms to Produce Goods and Services  
**Bjarne Berg-Saether** and Antonis Stylianou  
Belk College of Business, Business Information Systems and Operations  
Management Department (BISOM), University of North Carolina at  
Charlotte, North Carolina, USA

03.40-04.00      Federated Drift-Aware Learning: Current Challenges and Future  
Directions  
**Osama Mahdi**<sup>1</sup>, Savitri Bevinakoppa<sup>1</sup>, and Nawfal Ali<sup>2</sup>  
<sup>1</sup>School of IT and Engineering, Melbourne Institute of Technology,  
Melbourne, Australia  
<sup>2</sup>Faculty of Information Technology, Monash University, Melbourne, VIC  
Australia

04.00-04.20      Analyzing the Influences of Browsing Data Behavior on Bid Prices in  
Targeted Advertising  
Yuto Taguchi and **Hiroaki Kikuchi**  
School of Interdisciplinary Mathematical Sciences, Meiji University, 4-21-  
1 Nakano, Tokyo 164-8525, Japan

04.20-04.40      K-Means Adaptive Channels for Mean Reversion Trading in  
Cryptocurrency Markets  
**Justin Hui San Zhao**<sup>1, 2, 3</sup> and Deshao Liu<sup>2,3,4</sup>  
<sup>1</sup>Western Sydney University, Sydney City Campus, Australia  
<sup>2</sup>Asia Pacific International College (APIC), Parramatta, NSW, Australia  
<sup>3</sup>Lincoln Institute of Higher Education (LIHE), Sydney, Australia  
<sup>4</sup>The Institute of International Studies (TIIS), Sydney, Australia