Monday, July 7, 2025

07.30-08.00   Conference Registration (Conference Registration Desk)

08.00-08.15   WELCOME
                     Professor Pascal Lorenz, University of Haute Alsace, France
                     Conference Chair

ACR25-Session-1-I **Computational Intelligence**
                       08.20-10.20, July 7, 2025 (In-person)

Session Chair: **Robert Polding**
                       IE University, Spain

08.20-08.40   A Hybrid Particle Swarm Optimization and Hill Climbing Algorithm for
                     Task Scheduling on Heterogeneous Multicore Clusters
                     Robert Dietze and Martin Berger
                     Chemnitz University of Technology, Germany

08.40-09.00   Optimizing Bipartite Matching with Interleaved and Injective Mappings:
                     Implementing and Evaluating the k-swap Heuristic
                     Gonzague Yernaux, Manel Barkallah, Mikel Vandeloise, Wim Vanhoof,
                     and Jean-Marie Jacquet
                     University of Namur, Belgium

09.00-09.20   IoT-Driven Sign-to-Text Systems for Sustainable Accessibility in Deaf
                     and Hard of Hearing Communities
                     Samar Mouti [1], **Samer Rihawi** [1], Mohammed Abushohada [2], Hani Al
                     Chalabi [3], and Sulafa Abdalla [4]
                     [1]Liwa College, Abu Dhabi, United Arab Emirates
                     [2]Liwa College, Abu Dhabi, United Arab Emirates
                     [3]Liwa College, Al Ain, United Arab Emirates
                     [4]Liwa College, Abu Dhabi, United Arab Emirates

09.20-09.40   Towards a Multi-Agent Deep Reinforcement Learning Approach for End-
                     to-End Latency Minimization in Complex Communication Networks
                     Christina Alhachem[1], Mounir Kellil[1], and Abdelmadjid Bouabdallah[2]
                     [1]Université Paris-Saclay, France
                     [2]Université de Technologie de Compiègne, France

09.40-10.00   Evaluating Llama-3.1 for Adverse Drug Event Entity and Relationship
                     Extraction across Prompting Techniques
                     Howard Prioleau, **Saurav K. Aryal**, and Legand Burge
                     Howard University, USA

10.00-10.20	Cognitive Depth Enhancement in AI-Driven Educational Tools via SOLO Taxonomy

10.00-10.20 Cognitive Depth Enhancement in AI-Driven Educational Tools via SOLO Taxonomy
Antoun Yaacoub[1], Zainab Assaghir[2], and Jérôme Da-Rugna[1]
[1]Learning, Data and Robotics (LDR) ESIEA Lab, France
[2]Lebanese University, Beirut, Lebanon

10.20-10.40 **BREAK**

Session Chair: **Razwan Mohmed Salah**
University of Duhok, Kurdistan, Iraq

10.40-11.00 An Explainable Predictive Model for the Detection of Mental Health Conditions in the Workplace
Sandeep Giri[1], Farnaz Farid[2], **Farhad Ahamed**[2], Nafisa Choudhury[3], and Jeff Foster[4]
[1]The University of Sydney, Australia
[2]Western Sydney University, Sydney, Australia
[3]Seerah Psychology, Australia
[4]Macquarie University, Australia

11.00-11.20 Comparative Analysis of AI Chatbot Responses in a Computer-Aided Drawing Course
Javier Vasquez-Monteros[1], Yasmany García-Ramírez[1], and Paulo Samaniego-Rojas[2]
[1]Universidad Técnica Particular de Loja, Ecuador
[2]Universidad Nacional de Loja, Ecuador

11.20-11.40 Enhanced Lung Cancer Detection in CT scans Using Deep Learning Architectures
Hamed Mehrzadi[1], Mazdak Maghanaki[1], Mohammad Shahin[1], F. Frank Chen[1], Ali Hosseinzadeh[1], and Saman Tarhani[2]
[1]The University of Texas at San Antonio, USA
[2]Islamic Azad university, Iran

11.40-12.00 Using Kaldi for Phonetic Transcription: Evidence from the Corpus of Spoken Russian
Lada Skorobagatko[1,2] and Elena Riekhakaynen[1]
[1]Saint Petersburg State University, Russia

[2]National Research University Higher School of Economics, Russia

12.00-12.20	Natural Language Processing (NLP) for Hate Speech Detection in Vietnamese Language: Challenges and Implementation **Van Cong Pham** and Thair Al-Dala'in Western Sydney University - Sydney City Campus, Australia
12.20-01.20	**LUNCH BREAK (ON YOUR OWN)**

ACR25-Session-3-I Data Analytics Engineering
01.20-03.00, July 7, 2025, (In-Person)

Session Chair: **Eleftherios Zacharioudakis**
Neapolis University Pafos, Pafos, Cyprus

01.20-01.40	Analyzing Pedestrian and Bicycle Activity Patterns in Downtown Los Angeles Using Python Rahul Prasad, Peter Prince Addakula, and **Samah Senbel** Sacred Heart University, USA
01.40-02.00	Automated Detection and Geolocation of Olive Tree Crowns in UAV Imagery Using Deep Learning **Youness Hnida**[1], Mohamed Adnane Mahraz[1], Ali Yahyaouy[1], Ali Achebour[2], Jamal Riffi[1], and Hamid Tairi[1] [1]Sidi Mohamed Ben Abdellah University, Morocco [2]Research and Development Department, Drone's Technology, Morocco
02.00-02.20	Method of Similarity Implementation for the Fear Mitigation Analyses for Change Management Under Condition of the War **Maryna Averkyna**[1,2] and Lauri Tabur [3] [1]Estonian Business School, Estonia [2]Lviv Polytechnic National University, Ukraine [3]Smartgrow OÜ, Estonia
02.20-02.40	Comparative Analysis of Brain Tumor Classification Using Transfer Learning **Noorah Al-Sultan** and Hanan Aljuaid Princess Noura University, KSA
02.40-03.00	An Analytical Study of H-2 Visa Applications Acceptance rates in the U.S.A. Sri Vidya Gayathri Pannangi, Srija Nagella and **Samah Senbel** Sacred Heart University, USA
03.00-03.20	**BREAK**

Cybersecurity Engineering
03.20-04.20, July 7, 2025 (Remote/In-Person)

Session Chair: **Maryna Averkyna**
Estonian Business School, Estonia

03.20-03.40   Near Realtime Attack Detections with Weka Framework
Selahattin Hürol Türen[1], Kenneth Eustace[1], Rafiqul Islam[2], and Geoffrey Fellows[1]
[1]Charles Sturt University, Wagga Wagga, Australia
[2]Charles Sturt University, Albury, Australia

03.40-04.00   Automating Vulnerability Scanning and Patching along with OWASP and CVE Databases on Docker Container Images
Joseph U. Ohaeche and Xinli Wang
School of Computing, Grand Valley State University, Michigan, USA

04.00-04.20   Enhancing Autonomous Vehicles Security: A Survey on GAT, Neural Networks, and Reinforcement Learning in AI-Driven Defense
Mukta D O Dinesh Kumar[1], Abubakar Bello[2], Sobia Kousar[1], Somesh S O Guljari Lal[1], and Mahmoud Bekhit[3,4]
[1]Asia Pacific International College, Sydney, 2150, Australia
[2]Edge Hill University, UK
[3]Peter Faber Business School, Australian Catholic University, Australia
[4]Faculty of Engineering and Information Technology, University of Technology Sydney, Australia

04.20-05.20   Keynote Speech: **Future Applications Based on Mobile Clouds and Software-Defined Networks**

Professor Sergei Gorlatch
University of Münster, Institute of Computer Science, Germany

07.30-9.30.00   CONFERENCE DINNER