

**Wednesday, August 14, 2024**

**ICR24-Session-9-R Computer Science/Computer Engineering Education**  
**07.00-09.20, August 14, 2024 (Remote)**

**Session Chair:** **Elena Kakoulli**  
Neapolis University Pafos, Cyprus

**07.00-07.20** Code Smells for Assessing and Improving Students' Coding Skills and Practices  
**Ricardo Lozano**, Rajasoundarya Senthil Prabhu, and Yoonsik Cheon  
The University of Texas at El Paso, USA

**07.20-07.40** An Investigation on Assessment Strategies, Student Engagement, and Retention for Large Cohorts Affected by COVID Learning Disruptions  
**Jeannette Chin**  
University of East Anglia, UK

**07.40-08.00** Self-Organization as a Key Principle of Adaptive Intelligence  
**Birgitta Dresp-Langley**  
UMR 7357 CNRS-Strasbourg University, France

**08.00-08.20** Evaluating Generative AI Tools for Visual Asset Creation - An Educational Approach  
**Aesheh Essa** and Mohammad Lataifeh  
University of Sharjah, UAE

**08.20-08.40** Review of Learning Analytics Dashboards for Students  
Krishnavamsi Gujju, Sahithi Bandi, and **Marcia Moraes**  
Colorado State University, USA

**08.40-09.00** Advancing Learning Systems: Enhancing Explanation Generation through AI Innovations  
**Younna Moussa**  
University of Leeds, Leeds, UK

**09.00-09.20** Exploratory Analysis of Driver Data on University Campus: A Case Study in Ecuador  
**Yasmany García-Ramírez**, Anderson Castillo, and Adrián Díaz  
Universidad Técnica Particular de Loja, Ecuador

09.20-10.20

**Panel: Future Trends in Computer Science and Computer Engineering Education**

*Moderator:* **Robert Polding**, IE University, Spain

*Panelists:* **Mario Covarrubias**, Politecnico di Milano, Italy  
**Eman El-Sheikh**, University of West Florida, USA  
**Marcia Moraes**, Colorado State University, USA

10.20-10.40

**BREAK**

**ICR24-Session-10-IR Computer Science/Computer Engineering Education + Posters  
10.40-12.20, August 14, 2024 (In-Person/Remote)**

**Session Chair:**

**Martin Q. Zhao**  
Mercer University, USA

10.40-11.00

Using a Chinese Learning Application for Case Studies in OO Programming, Database Systems, and Software Engineering Courses  
**Martin Q. Zhao**  
Mercer University, USA

11.00-11.20

Insights into Online Video Learning: A Comprehensive Analysis of Student Learning Behaviors  
**Chien-Hsiang Liao**  
Fu Jen Catholic University, Taiwan

11.20-11.40

Video Games for STEM Education: Potential and Pitfalls  
**Neelam Soundarajan**  
Ohio State University, United States

11.40-12.00

Optimizing Educational Data Storage and Retrieval in Learning Management Systems Using Table Valued Parameters with Blazor Components  
Agon Memeti, **Aqim Iljazi**, and Shkurte Luma-Osmani  
University of Tetova, North Macedonia

12.00-12.20

ICT: Inclusive Competences for Teaching  
**Michele Della Ventura**  
Music Academy Studio Musica, Department of Music Technology, Italy

12.20-01.20

**LUNCH BREAK (ON YOUR OWN)**

**ICR24-Session-11-R Smart Cities/Smart Energy + IoT**  
**01.20-02.40, August 14, 2024 (Remote)**

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

**01.20-01.40** Real-time Monitoring of Pavement Conditions through Smart Technologies  
**Carolina Oliveira**, Paulo Carvalho, and Solange Rito Lima  
Universidade do Minho, Portugal

**01.40-02.00** Automated Tubular Ceramic Membrane Reactor Design for Laboratory-Scale Biofouling Analysis in Wastewater Treatment Processes  
**Lizeth Garcia**<sup>1</sup>, Luis-Miguel Quishpe<sup>1</sup>, Omar Sánhez<sup>2</sup>, Daniel Barzallo<sup>2</sup>, Néstor Maya<sup>2</sup>, Miguel Herrera-Robledo<sup>1</sup>  
<sup>1</sup>Universidad Regional Amazónica Ikiam, Ecuador  
<sup>2</sup>Instituto Superior Universitario Central Técnico, Ecuador

**02.00-02.20** Privacy Preservation for The IoMT Using Federated Learning and Blockchain Technologies  
**Shamma Alalawi**, Meera Alalawi, Rawhi Alrae  
United Arab Emirates University, United Arab Emirates

**02.20-02.40** Explainable Ensemble-Based Trust Management for IoT Systems  
**Muhammad Aaqib**<sup>1</sup>, Aftab Ali<sup>1</sup>, Liming Chen<sup>2</sup>, and Omar Nibouche<sup>1</sup>  
<sup>1</sup>Ulster University, Northern Ireland, UK  
<sup>2</sup>Dalian University of Technology Dalian, China

**02.40-03.00** **BREAK**

**ICR24-Session-12-R Computer and Network Security**  
**03.00-04.20, August 14, 2024 (In-Person/Remote)**

**Session Chair:** **Mais Nijim**  
Texas A&M Kingsville, USA

**03.00-03.20** Insufficient Due Diligence: Knowledge-related Threats in Cloud Computing  
Frank Loots, **Harald Gjermundrød**, and Ioanna Dionysiou  
University of Nicosia, Cyprus

**03.20-03.40** The Blind Spots of Two-Factor Authentication Tools  
**Joel Gonçalves de Oliveira** and Marcio Eduardo Kreutz  
UFRN, Dimap, PPGSC, Brazil

03.40-04.00

Insecurity Revealed: Decrypting Cookies to Show the Theft of Personal Data in University Students

**Germán Rodríguez-Galán**<sup>1,2</sup>, Jenny Torres-Olmedo<sup>1</sup>, and Luis Chica-Moncayo<sup>2</sup>

<sup>1</sup>Escuela Politécnica Nacional, Ecuador

<sup>2</sup>Universidad de las Fuerzas Armadas-ESPE, Ecuador

04.00-04.20

Utilizing Machine Learning for Intrusion Detection in Smart Grid Systems

Hisham Albataineh<sup>1</sup>, Viswas Kanmuri<sup>1</sup>, Waseem Alaqqad<sup>2</sup>, and **Mais Nijim**<sup>1</sup>

<sup>1</sup> Texas A&M Kingsville, USA

<sup>2</sup> West Virginia Tech, USA

04.20-05.20

[Keynote Speech: How Artificial Intelligence is Shaping Medical Imaging Technology](#)

**Professor Luís Pinto-Coelho**

Polytechnic institute of Porto, Portugal