

## Wednesday, August 27, 2025 (Meeting Room: Pacific)

### ICR25-Session-7-R    **Computer Science/Computer Engineering Education** **07.40-09.20, August 27, 2025 (Remote)**

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

**07.40-08.00**            Teaching Abstraction in Computer Science Courses  
**Neelam Soundarajan**  
Computer Science and Engineering Department, The Ohio State  
University, USA

**08.00-08.20**            Exploring Embedded Computing Integration in MVC Blazor - based  
Learning Management Systems  
**Agon Memeti**<sup>1</sup>, Neshat Ajruli<sup>1</sup>, Ibrahim Neziri<sup>2</sup>, and Shkurte Luma-  
Osmani<sup>1</sup>  
<sup>1</sup>Department of Computer Sciences, Faculty of Natural Sciences and  
Mathematics, University of Tetova, 1200 Tetovo, North Macedonia  
<sup>2</sup>Department of Psychology, Faculty of Philosophy, University of  
Tetova, 1200 Tetovo, North Macedonia

**08.20-08.40**            Enhancing Academic Advising through AI Chatbots: A Smart Support  
System for Students  
**Wasin Alkishri**<sup>1</sup>, Mahmood Al-Bahri<sup>2</sup>, and Yousuf Al Husaini<sup>1</sup>  
<sup>1</sup>Arab Open University, Oman  
<sup>2</sup>Sohar University, Oman

**08.40-09.00**            Enhancing VR Education through AI-Driven Emotional Adaptation: A  
Survey on Emotion-Centric VFX and Adaptive Learning Environments  
**Sobia Kousar**<sup>1</sup>, Farnaz Farid<sup>2</sup>, Mukta D O Dinesh Kumar<sup>1</sup>, Somesh S O  
Guljari Lal<sup>1</sup>, and Mahmoud Bekhit<sup>3,4</sup>  
<sup>1</sup>Asia Pacific International College, Sydney, 2150, Australia  
<sup>2</sup>School of Social Sciences, Western Sydney University, Sydney, 2751,  
Australia  
<sup>3</sup>Peter Faber Business School, Australian Catholic University (ACU),  
North Sydney, NSW, 2060, Australia  
<sup>4</sup>Faculty of Engineering and Information Technology, University of  
Technology Sydney (UTS), Sydney, 2007, Australia

**09.00-09.20**            Optimizing Learning Experiences: MVC BLAZOR Components and  
Emerging Educational Technologies in LMS Development  
Krenar Huseini, **Agon Memeti**, Florinda Imeri, and Shkurte Luma-  
Osmani  
Department of Computer Sciences, Faculty of Natural Sciences and  
Mathematics, University of Tetova, 1200 Tetovo, North Macedonia

**09.20-10.20      Panel:      Emerging Trends in Computer Science and Computer Engineering Education**

*Moderator:* **Ela Pustulka**, The University of Applied Sciences and Arts  
Northwestern Switzerland FHNW, Switzerland

*Panelists:* **Sandi Ljubic**, University of Rijeka, Croatia  
**Neelam Soundarajan**, The Ohio State University, USA  
**Mario Covarrubias Rodriguez**, Politecnico di Milano, Italy

10.20-10.40 **BREAK**

**ICR25-Session-8-IR      Data Science**  
**10.40-12.20, August 27, 2025 (In-person/Remote)**

**Session Chair:** **Aqeel Sahi**  
University of Southern Queensland, Australia

**10.40-11.00** Dimensional Weighting Clustering for High-Dimensional Stock Price Data  
**Imran Khan**<sup>1</sup> and Muhammad Farooq<sup>2</sup>  
<sup>1</sup>Department of Computer Science, College of Science, Sultan Qaboos University, Muscat, Oman.  
<sup>2</sup>Department of Statistics, College of Science, Sultan Qaboos University, Muscat, Oman.

11.00-11.20 Automatic Correction of Symbolic Musical Text During Optical Music Recognition  
**Michele Della Ventura**  
Accademia Musicale Studio Musica, Department of Music Technology, Treviso, Italy

11.20-11.40 Leveraging Category-Specific Features and Geographic Context for Enhanced Fraud Detection  
**Mahmoud Bekhit**<sup>1,2</sup>, Walayat Hussain<sup>1,2</sup>, Abubakar Bello<sup>3</sup>, Nur Indah Lestari<sup>2</sup>, and Ahmed Fathalla<sup>4</sup>  
<sup>1</sup> Peter Faber Business School, Australian Catholic University (ACU), Sydney, NSW 2060, Australia  
<sup>2</sup> Faculty of Engineering and Information Technology, University of Technology Sydney (UTS), Sydney, 2007, Australia  
<sup>3</sup> Edge Hill University, UK

<sup>4</sup> Department of Mathematics, Faculty of Science, Suez Canal University, Ismailia, Egypt.

11.40-12.00

Automated Contextual Tagging in Points-of-Interest Using Bag-of-Objects

**Paraskevas Messios**<sup>1</sup>, Ioanna Dionysiou<sup>2</sup>, and Harald Gjermundrød<sup>2</sup>

<sup>1</sup> Department of Computer Science and Engineering, European University Cyprus, Cyprus

<sup>2</sup> Department of Computer Science, University of Nicosia, Cyprus

12.00-12.20

Unmasking Fake News: A Naïve Bayes Classifier Approach to Combat Misinformation

**Aqeel Sahi**<sup>1,2</sup>, Mustafa Hayawi<sup>2</sup>, Raid Lafta<sup>2</sup>, Shahab Abdulla<sup>3</sup>, and Mohammed Diykh<sup>4</sup>

<sup>1</sup>School of Mathematics, Physics and Computing, University of Southern Queensland, QLD, Australia.

<sup>2</sup>College of Engineering, Al-Shatrah University, Thi-Qar, Iraq.

<sup>3</sup>UniSQ College, University of Southern Queensland, QLD, Australia.

<sup>4</sup>College of Education for Pure Sciences, University of Thi-Qar, Thi-Qar, Iraq.

12.20-01.20

**LUNCH BREAK (ON YOUR OWN)**

ICR25-Session-9-IR

**Smart Cities and Smart Energy**

01.20-02.40, August 27, 2025 (**In-person/Remote**)

Session Chair:

**Omid Tafreschi**

Hochschule Darmstadt, Germany

01.20-01.40

Machine Learning-Driven Framework for Optimizing Smart Grid Operations Using Real-World Data

Mais Nijim<sup>1</sup>, Viswas Kanumuri<sup>1</sup>, Waseem AlAqqad<sup>2</sup>, Hisham Al-bataineh<sup>3</sup>, Ayush Goyal<sup>1</sup>, David Hicks<sup>1</sup>, and George Tuscano<sup>1</sup>

<sup>1</sup>Department of Electrical Engineering and Computer Science, Texas A&M University-Kingsville, USA

<sup>2</sup>Department of Electrical and Computer Engineering, West Virginia University, USA

<sup>3</sup>Department of Physics and Geosciences, Texas A&M University-Kingsville, USA

01.40-02.00

Evaluating Hardware and Software Power Measurement Tools: Assessing Accuracy in Measuring Application Energy Consumption for Data-Parallel Workloads

**Urooj Asgher** and Tania Malik

Technological University Dublin, Ireland

02.00-02.20

Smart-to-Sustainable Cities Correlation Analysis

**Larisa Hrustek**, Katarina Tomičić-Pupek, and Neven Vrček

University of Zagreb, Faculty of Organization and Informatics, Varaždin  
42000, Croatia

02.20-02.40

Evaluating the Extended Kalman-Filter for the State Estimation in Low-Voltage Grids

Sebastian Hallmann-Perez<sup>1</sup>, **Omid Tafreschi**<sup>2</sup>, and Andreas F. Raab<sup>1</sup>

<sup>1</sup>Wavestone Germany AG, Leopoldstr. 28A, 80802 München, Germany

<sup>2</sup>Hochschule Darmstadt, Schöfferstraße 3, 64295 Darmsta, Germany

2:40 -03.00

**BREAK**

03.00-04.00

**Keynote Speech:**

**The Good, the Ugly, the Bad and the Quantum: The Mathematics of Cryptography in a Post-Quantum World"**

**Professor María Isabel González Vasco**

Universidad Carlos III de Madrid Campus de Leganés (Madrid), España