

The 2026 International Conference on Advances in Computing Research (BAI'26)
Tunis, Tunisia, May 4-6, 2026

Conference Program

Monday, May 4, 2026

- 08.20-08.55** Conference Registration (Conference Registration Desk)
- 09.00-09.15** WELCOME
Professor Lerina Aversano, University of Foggia, Italy
Conference Chair
- 09.20-10.20** **Keynote Speech: AI and Cybersecurity: Foundations for an AI-Native Resilient Society**

Dr. Takeshi Takahashi
National Institute of Information and Communications Technology,
Japan
- 10.20-10.40** **BREAK**
- Session BAI-1** **Artificial Intelligence Applications**
10.40-12.20, May 4, 2026 (In-person/Remote)
- Session Chair: **Katja Saarela**
Eficode Group Ltd, Finland
- 10.40-11.00** Privacy-Preserving and Explainable Epileptic Seizure Detection through Wavelet Transforms
Paul Tavolato¹, Hubert Schölnast², Oliver Eigner², Antonella Santone³, Mario Cesarelli⁴, Fabio Martinelli⁵, Marta Petyx⁶, Patrizia Agnello⁶, and **Francesco Mercaldo**^{3,1}
¹Faculty of Computer Science, University of Vienna, Vienna, Austria
²Department of Computer Science and Security, St. Pölten University of Applied Sciences, Sankt Pölten, Austria
³Department of Medicine and Health Sciences “Vincenzo Tiberio”, University of Molise, Campobasso, Italy
⁴Department of Engineering, University of Sannio, Benevento, Italy
⁵Institute of High Performance Computing and Networking, National Research Council of Italy (CNR), Rende, Italy
⁶Istituto Nazionale per l’Assicurazione contro gli Infortuni sul Lavoro, Roma, Italy

- 11.00-11.20 Effect of a stratified sampling strategy on the assessment of process complexity metrics
Lerina Aversano¹, Antonella Madau², Gianfranco Semeraro³, Chiara Verdone¹
¹Department of Agricultural Science, Food, Natural Resources and Engineering, University of Foggia, Foggia, Italy
²Department of Engineering, University of Sannio, Italy,
³Department of Computer Science, University of Studies of Bari Aldo Moro, Bari, Italia
- 11.20-11.40 An Integrated Deep Learning Framework for Detecting Botnets, Zero-Day Exploits, and Side-Channel Attacks in Network Traffic
Monther Tarawneh¹, Daed Alrbaihat¹, Shorouq Al-Eidi¹, and Faisal Alzyoud²
¹College of ICT, Tafila Technical University, Tafila, 66110, Jordan
²Department of Computer Science, Faculty of IT, Isra university, Jordan
- 11.40-12.00 IntegraMed: INtelligent and Transparent Explainable System for Guided Research and Analysis in MEDicine
Vincenzo Dentamaro¹, **Felice Franchini**¹, Giuseppe Pirlo¹, and Davide Veneto²
¹Department of Computer Science, University of Bari Aldo Moro, Bari, Italy
²Department of Agricultural Science, Food, Natural Resources and Engineering, University of Foggia, Foggia, Italy
- 12.00-12.20 Machine Learning and Deep Learning Models for Early Identification of At-Risk Students Using OULAD VLE Data
Yousuf Nasser Al Husaini¹, Mohammed Abdulla Al Husaini¹, Wasin Ayman Al Kishri¹, Mahmood Al Bahri², and Nur Syufiza Ahmad Shukor³
¹Arab Open University, Muscat, Oman
²Sohar University, Sohar, Oman
³Universiti Selangor, Malaysia
- 12.20-01.20 **LUNCH BREAK (ON YOUR OWN)**
- 01.20-02.20 **Panel: Generative AI and Education: Impacts and Solutions**
Moderator: **Samah Senbel**, Sacred Heart University, USA
Panelists: **Yousuf Nasser Al Husaini**, Arab Open University, Oman
Mahmoud Bakkar, Abu Dhabi University, UAE
Neelam Soundarajan, Ohio State University, USA

Session BAI-2. Artificial Intelligence and the Society
02.20-03.20, May 4, 2026 (Remote)

Session Chair: **Giuseppe Pirlo**
University of Bari Aldo Moro, Italy

02.20-02.40 Schema-based Cognition, Embodied Cognition and Social Cognition: The Impact of AI on STEM Education

Neelam Soundarajan
Department of Computer Science and Engineering, Ohio State University,
United States

02.40-03.00 Generative AI: Challenges and Opportunities for Women in South Asia
Qurat ul Ain Nizamani¹, **Madhumita Takalkar**¹, and Anita Jahid²

¹Crown Institute of Higher Education, North Sydney, NSW, Australia

²Acknowledge Education, Surry Hills, NSW, Australia

03.00-03.20 REEF: A Real-Time Ethical Ensemble Framework for Customer Churn Prediction in Telecommunications

Deshao Liu^{1,2,3} and Justin Hui San Zhao^{1,2,4}

¹Asia Pacific International College (APIC), Sydney, Australia

²Lincoln Institute of Higher Education (LIHE), Sydney, Australia

³The Institute of International Studies (TIIS), Sydney, Australia

⁴Western Sydney University, Sydney City Campus, Australia

03.20-03.40 **BREAK**

03.40-04.40 **Keynote Speech: Enhancing Ethical Awareness through Agent-Based AI Image Generation in Art**

Professor Anna Farzindar
Loyola Marymount University, USA

07.30-9.30.00 **CONFERENCE DINNER**