

ERACON 2023 THEMATIC SESSIONS

INVITATION TO PARTICIPATE

To participate send your presentation abstract to the Session Chairs for consideration. When accepted by the chair, you will be informed and invited to register.

Thematic Session (TS1): Education 5.0: A Post Pandemic View

Session Chairs:

Prof. Dr. Birgit Oberer, International Society for Engineering Pedagogy

Prof. Dr. Alptekin Erkollar, ETCOP Institute for Interdisciplinary Research

Contact E-Mail: (for sending abstracts and papers): conference@etcop.at

Abstract: With Industry 5.0, the human factor is once again playing a major role and is once again moving to the center of the processes. According to this premise, technology must serve people and not the other way around. Therefore, the goal is to arrive at a scenario of complete collaboration between humans and machines. In other words, if Industry 4.0 is based on networking between machines and computer systems, Industry 5.0 aims to combine the roles of humans and machines to strengthen and complement each other.

The topics may include but are not limited to:

- Continuing Education
- Education 5.0 and Society 5.0
- Educational Technologies for HEI
- Academic Innovation

Accepted presentations within TS1

- **TS1.1 EDUCATION 5.0: IN SEARCH OF THE HUMAN FACTOR**
Birgit Oberer, Alptekin Erkollar
- **TS1.2 DETERMINATION OF ATTITUDES TOWARDS EDUCATIONAL INFORMATICS NETWORK OF SCIENCE TEACHERS WITH MACHINE LEARNING APPROACH DURING THE PANDEMIC PERIOD**
Semra BENZER, Recep BENZER, Tuba DOĞAN
- **TS1.3 DETERMINATION OF DIGITAL LITERACY LEVELS OF SCIENCE TEACHERS WITH MACHINE LEARNING APPROACH DURING THE PANDEMIC PERIOD**
Semra BENZER*, Recep BENZER**, Tuba DOĞAN

More to appear.

Thematic Session (TS2): European Universities: what is changing in European Higher Education?

Session Chair: Nuno Escudeiro, Polytechnic Institute of Porto, Portugal

ATHENA European University – Advanced Technology Higher Education Network Alliance

EAEC – European Association of Erasmus Coordinators

EACG – European Association of Career Guidance

INNOTECS – International Network of Technical Schools

Contact E-Mail: (for sending abstracts and papers): nfe@isep.ipp.pt

Abstract: A transformation wave impacting higher education and research is crossing Europe since 2018, mainly due to the ambitious European Universities initiative by the European Commission and the member states but also somehow due to the Covid-19 pandemic that suddenly pushed academics for online teaching and novel pedagogies.

These are times of deconstruction, reconstruction and innovation over traditional higher education that has been steady and crystallized for ages. It is time to act, to be part of this exciting transformation process and to take the best advantage of this lifetime opportunity.

In this session we will discuss novel approaches, models and methodologies being essayed by European University alliances to advance European Higher Education to unprecedented levels.

Chair: Nuno Escudeiro, nfe@isep.ipp.pt

Thematic Session (TS3): ECOVEM and METIS Microelectronics – Education, Skills, Employment

Session Chair: Gr. Makrides, EACG and partners

Contact E-Mail: (for sending abstracts and papers): makrides.g@eaecnet.com

Abstract: ECoVEM project brings together VET centres, polytechnics, industrial associations, social partners to establish European Cooperation platform of Vocational Excellence in Microelectronics to tackle the challenges of: digitalisation, artificial intelligence, green technologies, gender equality and technology, integration of migrants. ECoVEM builds on and complements the strengths of national VET systems in countries with more-advanced VET and supports the not so advanced regions to achieve VET excellence. ECoVEM implements innovative instructional approaches towards life-long capacity to self-regulate learning, hard skills and soft skills using the ecosystems-based theoretical models and performance support systems. In this session, colleagues active in the topic will present current developments in the microelectronics education, skills and opportunities.

METIS: METIS (or MicroElectronics Training, Industry and Skills) is a project funded by the European Commissions under Erasmus + KEY Action 2 Programme Cooperation for innovation and the exchange of good practices - Sector Skills Alliances, with 20 partners, including the European Association of Career Guidance, from 14 countries representing industry (Start-Ups, SMEs, Large Firms), national and EU industry associations, formal educational providers and regulatory bodies in the field of accreditation and certification.

Microelectronics are an essential component of virtually all aspects of our daily lives. Advanced skills of designing and manufacturing microelectronics components and systems are becoming of strategic importance to Europe because they are the brains of all modern services and products. With incredible processing power, they enable billions of computations per second and store vast data. Artificial Intelligence, smartphones, computers, cloud storage, automobiles, space travel and medical equipment all rely on microelectronics.

Thematic Session (TS4): Relation of Web3 and International Education (Erasmus+ and etc.) Processes

Session Chairs:

Prof. Halil İbrahim Bülbül, Gazi University, Department of Computer Education and Instructional Technologies, Ankara, Türkiye

Assoc. Prof. Mutlu Tahsin Üstündağ, Gazi University, Distance Education Application and Research Center, Ankara, Türkiye

Contact E-Mail (for sending abstracts and papers): eracon2023@gazi.edu.tr

Abstract: Today's business world has started to take shape in accordance with Web3 technologies, which is seen as the new revolution of the internet. Inevitably, higher education institutions have to include these practices in a way that will lead the society through this process. It is important in this context that the academic world discuss the examples of these practices. In addition, when the European Union and Erasmus 2021-2027 priorities are examined, it is seen that digitalization and EWP

(Erasmus without Paper) processes come to the fore. The concept of Web3 is used as a framework concept and this framework concept is embodied by applications such as blockchain, NFT, MetaVerse, Smart Contracts etc. In this session which innovative technologies will be discussed, it is planned to include studies on how these technologies can be used in Erasmus and Higher Education business processes, the contribution of these applications to the way of doing business, and the improvement of processes.

The topics may include but are not limited to:

- Web3 and International education
- Campus Mobility in Metaverse
- Educational Technologies for HEI
- Blockchain Use Cases in Higher Education
- Document and Data Sharing Between HEI
- Autonomous Campus Organizations