# 9th International Conference on Future Learning and Informatics

## Creating a Human-Focused Future

futur e learning

### Conference Tracks

New Technologies and Human
Gamification
Economy
Creativity

**09 - 11 NOVEMBER 2022**

ATILIM UNIVERSİTY
ANKARA, TURKEY

**Official Website:** http://fl.istanbul.edu.tr/
**E-mail:** future.learning@istanbul.edu.tr

İstanbul University
Atılım University
Republic of Turkey Ministry of National Education
Informatics Association of Turkey
TUYAFED Federation of Software Developers

# CONTENT


Welcome Message 1

Committees 3

Research Topics 7

Venue Information 8

Keynote Speakers 9

- Keynote Speaker 1 9
- Keynote Speaker 2 11
- Keynote Speaker 3 12

Panels 14

Conference Programme 17

Sponsors 20

# Welcome Message



*Conference Co-Chair*
**Prof. Sevinç GÜLSEÇEN (PhD)**



*Conference Co-Chair*
**Dr. Aydın KOLAT**

*The International Future-Learning Conference, which was successfully held for the first time at Istanbul University in 2004 and is held every two years under the initiative of the Istanbul University Department of Informatics and Informatics Association of Turkey (TBD), is welcoming researchers, educators, and members of the public and private sectors for the ninth time this year in cooperation with the Ministry of National Education (MEB), Istanbul University, TBD and Atılım University.*

When we look at the history of informatics in Turkey, it is seen that public institutions, universities, and non-governmental organizations are the ones leading the digital transformation. Among the pioneers are Istanbul University, the Informatics Association of Turkey, and the Turkish Informatics Foundation. Istanbul University's Department of Informatics also conducts serious academic research and studies with its digital transformation mission. It has been carrying out high-quality education programs at the graduate level and leading studies to develop informatics policies for 19 years. Acting with the motto " WE JOIN OUR POWERS", the Department of Informatics cooperated with the Informatics Association of Turkey, as well as the Ministry of National Education, Federation of Software Developers (TÜYAFED), Atılım University all of which it has worked with throughout this long journey, and received TÜBİTAK and Enocta support in the organization of the conference as well.

**The International Future-Learning and Informatics** Conference, the main theme of which is determined as "**Creating A Human-Focused Future**", will take place as a hybrid conference from November 9 to 11, 2022, at Atılım University in Ankara (both face-to-face and online).

Four human-focused sub-themes of the conference (Education, Gamification, New Technologies and Human, and Creativity) will enable researchers in many fields to discuss, collaborate and brainstorm interdisciplinary. Accordingly, the objective is to discuss innovations in informatics and learning and innovative ideas within the framework of a human-focused future in order to develop the most accurate, effective, and efficient technology, methods, and strategies in the lifelong learning process. The international organization also offers the opportunity to highlight the differences and similarities between the studies in Turkey and other countries.

Numerous sessions, panels, workshops, and training sessions will be held in which academicians, educators, public and private sector representatives, non-governmental organizations, students, and practitioners from all disciplines related to the main theme will share their research and experiences. During the conference, which will provide its participants with an opportunity for academic development, information sharing, and cooperation, companies will also have a platform where they can share their projects and products with the business and education world.

# Committees

## HONOURARY BOARD

Prof. Petek Aşkar (Deputy Minister of National Education)
Prof. Mahmut Ak (Rector of Istanbul University)
Prof. Yıldırım Üçtuğ (Rector of Atılım University)
Rahmi Aktepe (Head of Informatics Association of Turkey)

## EXECUTIVE BOARD

Prof. Sevinç Gülseçen – Conference Co-Chair (İstanbul University)
Aydın Kolat, PhD. – Conference Co-Chair (Informatics Association of Turkey)
Assoc. Prof. Meltem Eryılmaz (Atılım University)
Deniz Tiryakioğlu (Informatics Association of Turkey)

## ORGANISING COMMITTEE*

Ahmet Ayvalı (Informatics Association of Turkey)
Ahmet Hançer (Enocta)
Ali Yazıcı (Atılım University)
Ayşe Kula (Ministry of Education)
Ceyda Cimilli (Informatics Association of Turkey)
Çiğdem Selçukcan Erol (İstanbul University)
Fidan Bayraktutan (İstanbul University)
Gonca Telli Yamamoto (Informatics Association of Turkey)
Gökhan Şengül (Atılım University)
İnci Zaim Gökbay (İstanbul University)
Ján Gunčaga (Comenius University in Bratislava, Slovakia)
Mehmet Selim Derindere (İstanbul University)
Meltem Eryılmaz (Atılım University)
Murat Gezer (İstanbul University)
Murat Koyuncu (Atılım University)
Natalija Lepkova (Vilnius Gediminas Technical University, Lithuania)
Serra Çelik (İstanbul University)
Souad Sassi (Universite Constantine 3, Algeria)
Sushil K. Sharma (Texas A&M University, USA)
Tarkan Gürbüz (Middle East Technical University)
Tetiana Bondarenko (Ukrainian Engineering-Pedagogics Academy)
Zerrin Ayvaz Reis (İstanbul University-Cerrahpaşa)

## SECRETARIAT

Fidan Bayraktutan (İstanbul University)
Mehmet Selim Derindere (İstanbul University)
Serra Çelik (İstanbul University)
Gizem Altınay (Atılım University)
Yakup Selçuk Yıldırım (İstanbul University)

## SCIENTIFIC COMMITTEE*

Abha Sharma (State Council of Educational Research & Training, India)
Adem Karahoca (MEF University)
Adem Korkmaz (Bandırma 17 Eylül University)
Ahmet Naci Ünal (Bahçeşehir University)
Ali Yazıcı (Atılım University)
Alex Grech (University of Malta)
Alptekin Erkollar (University of Applied Sciences ETCOP, Austria)
Anjum Kazımi (IQRA University, Pakistan)
Arzu Kilitci Calayır (Ministry of Education)
Ayşe Kula (Ministry of Education)
Aytekin İşman (Sakarya University)
Bilgin Metin (Boğaziçi University)
Büşra Özdenizci Köse (Gebze Technical University)
Cansu Çiğdem Ekin (Atılım University)
Cem Sefa Sütcü (Marmara University)
Cemal Aktürk (Gaziantep Islam Science and Technology University)
Ceren Çubukçu (Gebze Technical University)
Christina Banou (Ionian University, Greece)
Çiğdem Selçukcan Erol (İstanbul University)
Çiğdem Turhan (Atılım University)
Danguole Rutkauskiene (Kaunas University of Technology, Lithuania)
Ekrem Bahçekapılı (Karadeniz Technical University)
Emre Akadal (İstanbul University)
Emrah Aydemir (Sakarya University)
Enis Karaarslan (Muğla Sıtkı Koçman University)
Eralp Hüseyin Altun (Ege University)
Fahriye Altınay Aksal (Near East University)
Fatma Şebnem Akal İlkhan (Marmara University)
Feridun Cemal Özçakır (Okan University)
Feza Orhan (Bahçeşehir University)
Fidan Bayraktutan (İstanbul University)

Gabriela Kelemen ("Aurel Vlaicu" University of Arad, Romania)
Gary Grossman (Arizona State University, USA)
Gonca Kızılkaya Cumaoğlu (Yeditepe University)
Gonca Telli Yamamoto (Informatics Association of Turkey)
Gülser Acar Dondurmacı (Internet Technologies Association)
Hafize Keser (Ankara University)
Hakan Tüzün (Hacettepe University)
Haldun Akpınar (Marmara University)
Harun Aksaya (Marmara University)
Hulusi Gülseçen (İstanbul University)
İbrahim Enis Sınıksaran (İstanbul University)
İhsan Hakan Selvi (Sakarya University)
İlkim Ecem Emre (Marmara University)
İnci Zaim Gökbay (İstanbul University)
İrfan Şimşek (İstanbul University-Cerrahpaşa)
Ján Gunčaga (Comenius University in Bratislava, Slovakia)
Kadir Burak Olgun (Uludağ University)
Küçük Hüseyin Koç (İstanbul University)
Kürşat Çağıltay (Middle East Techical University)
Leyla Türker Şener (İstanbul University)
Levent Şahin (İstanbul University)
Lina Yordanova (Trakia University, Bulgaria)
Luís Miguel Cardoso (University of Lisbon)
Malgorzata Pankowska (Katowice University of Economics, Poland)
Mehmet Albayrak (Isparta University of Applied Sciences)
Mehmet Emin Mutlu (Anadolu University)
Mehmet Hakan Satman (İstanbul University)
Mehmet Selim Derindere (İstanbul University)
Melih Engin (Uludağ University)
Meltem Eryılmaz (Atılım University)
Meltem Huri Baturay (Atılım University)
Murat Gezer (İstanbul University)
Murat Şeker (İstanbul University)
Mustafa Aksu (İstanbul University)
Mustafa Hilmi Çolakoğlu (Nevşehir Hacı Bektaş Veli University)
Mustafa Özhan Kalaç (Manisa Celal Bayar University)
Müge Adnan (Muğla Sıtkı Koçman University)
Natalija Lepkova (Vilnius Gediminas Technical University, Lithuania)
Nebahat Akgün Çomak (Galatasaray University)

Petros Kostagiolas (Ionian University, Greece)
Piet Kommers (University of Twente, Netherlands)
Ramesh Sharma (Ambedkar University Delhi, India)
Róbert Jager (Matej Bel University, Slovakia)
Robertas Damaševičius (Kaunas University of Technology, Lithuania)
Rushan Ziatdinov (Keimyung University, South Korea)
Sacip Toker (Atılım University)
Seda Tolun Tayalı (İstanbul University)
Selim Yazıcı (İstanbul University)
Serhat Bahadır Kert (Yıldız Technical University)
Serra Çelik (İstanbul University)
Sevinç Gülseçen (İstanbul University)
Silvia Matúšová, (Catholic University, Slovakia)
Souad Sassi (Universite Constantine 3, Algeria)
Sushil K. Sharma (Texas A&M University, USA)
Süleyman Eken (Kocaeli University)
Şirin Karadeniz (Bahçeşehir University)
Tarık Talan (Gaziantep Islam Science and Technology University)
Tarkan Gürbüz (Middle East Technical University)
Tetiana Bondarenko (Ukrainian Engineering-Pedagogics Academy)
Tuba Uğraş (Yıldız Technical University)
Vaidotas Trinkūnas (Vilnius Gediminas Technical University, Lithuania)
Vedat Kamer (Istanbul University)
Veli Özcan Budak (Bandırma 17 Eylül University)
Veselina Nedeva (Trakia University, Bulgaria)
Yacine Lafifi (8 May 1945 - Guelma University)
Yalçın Özkan (İstinye University)
Yasemin Gülbahar Güven (Ankara University)
Zehra Altınay Gazi (Near East University)
Zerrin Ayvaz Reis (İstanbul University-Cerrahpaşa)
Zeynel Cebeci (Çukurova University)
Zuhal Tanrıkulu (Boğaziçi University)
Zümrüt Ecevit Satı (İstanbul University)

* Members of Organising Committee & Scientific Committee are listed alphabetically.

# Research Topics

## CONFERENCE TRACKS

TRACK 1: Economy
TRACK 2: Gamification
TRACK 3: New Technologies and Human
TRACK 4: Creativity

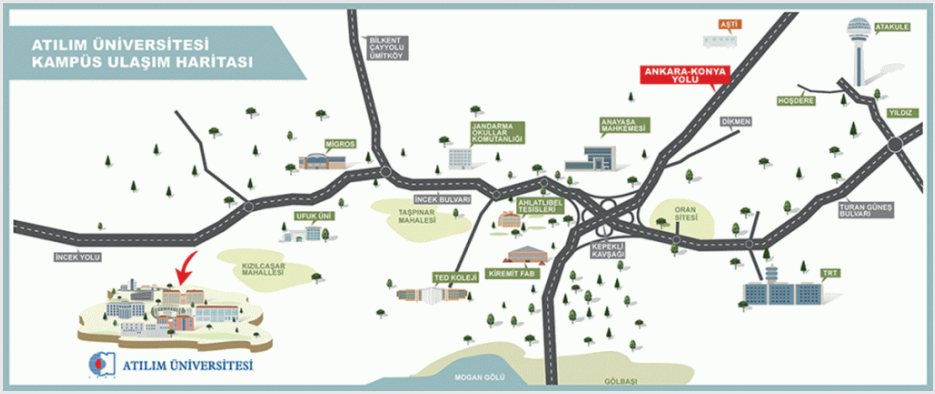
## CONFERENCE TOPICS

- Technology and Human
- Artificial Intelligence (AI)
- Big Data
- Blockchain
- Cloud Based Systems
- Code Learning
- Cognitive Learning
- Computer Literacy
- Computer Vision
- Data Mining
- Deep Learning
- Design Thinking
- Digital Divide
- Digital Literacy
- Digital Transformation
- Distance Learning in Higher Education Institutions
- e-Government and e-Learning
- e-Learning Strategies for Moderation and Assessment
- Ethics
- Expected Student Qualifications in the Digital Age
- Game Based Learning
- Gamification
- Green IT
- Human Computer Interaction (HCI)
- Human 5.0
- Human Smart Cities
- Information Literacy
- Innovative Learning
- Institutional Strategies, Policies, Standards, Accreditation and Certification for e-Learning
- Internet of Things (IoT)
- Knowledge Management
- Learning with Online games
- Massive Open Online Courses (MOOCs)
- Measurement and Evaluation of e-Learning Systems
- Metaverse – Virtual Reality – Augmented Reality/Virtuality
- Mobile Learning
- Natural Language Processing
- Robot Learning
- Security Problems and Solutions in e-Learning
- Social Media and e-Learning
- Society 5.0
- Sociological and Psychological Dimensions of e-Learning
- Testing and Evaluation of e-Learning Systems
- Virtual Class Applications
- Wearable Technologies
- Web 5.0 and Economy
- Web 5.0 and Social Behaviour

# Venue Information

## ATILIM UNIVERSITY, ANKARA

### MAP




### ADDRESS

Kızılcaşar Mahallesi, 1184. Cad No:13, 06830 İncek, Gölbaşı - Ankara - Türkiye

### CONTACT US

Contact Numbers: +90 (312) 586 80 00
E-mail: atiliminfo@atilim.edu.tr

## Keynote Speaker 1



### Professor Abha SHARMA

**Title of Speech:** "Reforming Lives Through Education and Technology Hand in Hand"

### Abstract

The world is developing at an accelerated pace and is facing constant challenges like economic, technological, environmental and social, driven by escalating new age technological changes and globalization. Educational institutions are pushing hard to match the increasing demands to prepare students to be ready for facing social and economic disruptions, for jobs that have not yet been created, for technologies that have not yet been invented, and to solve social and practical problems that have not yet been anticipated as per 21st century needs. Students should be trained to work together with technology and embody human skills to extend their physical capabilities. Moreover, transformation of education through cybernation/ automation and digitalization is the new initiative that we can propose along with development of holistic skills. Education and technology needs to go hand in hand in order to bring change and progress in this demanding world. The final three decades of the 20th century, education systems in many parts of the world made considerable, sometimes spectacular, advances. Previously, a high level of education was provided only for a small minority, while the majority had little to show for their limited years of education. But by the early years of the 21st century, a majority of young people in OECD countries achieved some level of qualification by the time they left school and large numbers, a majority in some countries, went on to some form of higher education. OECD's Project 2030 has brought a number of countries together to undertake an analysis and common definition of the knowledge, skills, attitudes and values that countries are seeking to impart to their students, together with a curriculum mapping exercise to examine to what extent these key concepts are present in their curricula. Unquestionably, studies have proven that there is a move toward incorporating 21st century competencies into countries' curricula, primarily through embedding new skills and habits of mind into traditional subject domains. In this conference we will be focusing on the most probable solutions, new initiatives to overcome the gaps in education, the testing challenging times for education and how we can reform lives with the help of Education and Technology in a more significant way.

## Biography

Professor Abha SHARMA is Principal, B.Ed. at SCERT, New Delhi, India. Prior to this she was Professor and Assistant Dean at School of Education, and Head, Planning and Monitoring at GD Goenka University, Gurgaon, India.

Professor Abha Sharma is an expert in the area of Teacher Education, Stress Management, Test and Measurement, Educational Technology and Science Education. Abha is Gold medallist in both B.Ed. and M.Ed. and a recipient of National merit scholarship for doing M. Ed. She has more than 22 years of experience in academic and academic leadership roles in various Universities and Institutes in India. Abha holds a PhD in Education (Educational Psychology/ Educational Technology), M. Ed., M.Sc. (Organic Chemistry) and MBA (HR). She has qualified National Eligibility Test (NET) in Education and was awarded Junior Research Fellowship from UGC, (India).

She has more than 50 papers/ articles/ book chapters published in National and International Journals of repute. Abha has participated and presented papers in more than 50 National/ International workshops/ conferences etc. and she has more than 22 years' experience in conducting interactive sessions as Keynote speaker, Resource person and chairing National and International Conferences/ Seminars/ workshops/ FDP's. She was an Academic Expert (Education) for Tuning India Project with University of Deusto, Bilbao (Spain) and Research expert for RISHII Project with University of Deusto, Bilbao (Spain) cofounded by the Erasmus + programme of the European Union, Resource person for developing and delivering video content of SWAYAMPRABHA educational channel of MHRD, Government of India for B. Ed. Programme. She is a District Nodal Officer for Vidyanjali, A School Volunteer Programme of MOE, government of India. She is a Nodal Academic Authority at District Level (South East) for School Transformation and Enrichment Programme of SCERT.

She received the Best National Paper award in International conference in 2017 and 2018 and was awarded Goodwill ambassador from IHRO, New Delhi in 2018. Prof. Sharma received an Inspirational Leadership Award from Global Talk education Foundation in 2021. She won the award of Excellence in Social Service in the state of Haryana by Navjyoti India Foundation, in 2021. Prof. Sharma also received an Education Icon Award in the Star Rating Annual Conference in 2022.

## Keynote Speaker 2



**Professor Soner YILDIRIM**

**Title of Speech:** "4.5 Million Years Journey of Learning"

### Abstract

Learning is one of the most important achievements of Homa Sapiens - intelligent creatures- in the evolutionary process. The swift progress in science and technology in the last 100 years has brought the concept of learning back to the top of our agenda. How this ability will evolve in the future has become one of the biggest areas of curiosity. This talk is a 45-minute summary of the 4.5 years journey of learning.

### Biography

Prof. Soner Yıldırım received his bachelor's degree from Hacettepe University, Faculty of Education, Department of Educational Sciences, Division of Curriculum and Instruction in 1990. He completed his master program at Michigan State University in 1993 and then his doctorate program at University of Southern California in 1997 in the field of Instructional Technology. He has been working at the Middle East Technical University (METU), Faculty of Education as a faculty member since 1998.

Prof. Yıldırım has been serving as international ICT consultant in various international organizations. He worked for the World Bank as an Internernatiol Expert in several Educational Technology projects. Between 2002-2006, he was the leading expert at the Council of Europe in Strasbourg for the project "Teaching & Learning in the Communication Society". He has also been working as the National Expert for the European Training Foundation (ETF) for Vocational Education and Training (VET) projects.

Prof. Yıldırım's research interest includes cognition, technology use in education, instructional design and feedback design, learning analytics and nomophobia.

## Keynote Speaker 3



### Dr. Ramesh SHARMA

**Title of Speech:** "Metaverse as the Foundational Technology Underpinning Learning: Policies, Risks and Opportunities in Education"

### Abstract

Metaverse, although, is not a new term/concept, however, its growth has been very rapid for personal and financial transactions. Metaverse as a digital universe combines the power and potential of augmented reality and virtual reality as an immersive 3D collaborative space. With much of the business happening on blockchain platforms, it is opening new avenues for gaming, Non-Fungible Tokens (NFT) and cryptocurrencies or real estate. It potential in education is yet to be realised, some projects and researches have been commissioned. Metaverse offers promise for boosting authentic learning by co-creating learning scenarios using gamification. Another potential benefit of this medium is faculty and learners onboarding and training using digital avatars. What kind of assessment practices this medium can support? Much progress has happened for artificial intelligence to 'learn' and 'mature'. Would Metaverse gain self-awareness? How the educators and administrators can build support services for learners? This presentation would critically examine the policies being framed for adoption of augmented reality, virtual reality and metaverse in education while identifying the risks and the opportunities in education.

### Biography

Dr. Ramesh Sharma is Director of Human Resource Development Centre and a faculty for Instructional Design and Chairperson of the Committee to facilitate adoption of MOOCs for SWAYAM MOOCs platform of the Government of India, at Dr. B. R. Ambedkar University Delhi.

Earlier he has taught Educational Technology and Learning Resources at Wawasan Open University, Malaysia. He is an expert in open and distance and technology mediated learning and has served as a visiting Professor at Universidade do Estado da Bahia, UNEB, Salvador, Bahia, Brazil, visiting Professor at University of Fiji, Fiji, Commonwealth of Learning as Director of the

Commonwealth Educational Media Centre for Asia, New Delhi, Regional Director of Indira Gandhi National Open University, India and Director of Distance Education at University of Guyana, Guyana, South America.

He has been a member of Advisory Group on Human Resources Development for the United Nations Conference on Trade and Development (UNCTAD). While at University of Guyana he also collaborated with UNDP for its Enhanced Public Trust, Security and Inclusion (EPTSI) project, Volunteer Service Overseas (VSO) and United Nations Volunteer (UNV) to develop suitable educational opportunities for communities and youth.

He is the Editor of Asian Journal of Distance Education (launched in 2003) and has been associated with several other peer reviewed journals including SSCI / SCOPUS Journals as Reviewer, Editor and Editorial Advisory Board member in the field of Open and Distance Learning. An author/editor of several books and research papers on educational technology, educational multimedia and eLearning, Dr. Sharma is a practitioner promoting Open Educational Resources (OER). He has been a trainer and capacity builder in the field of educational technology, and has supervised doctoral research in the field. He has conducted workshops and evaluation activities for Indira Gandhi National Open University; Commonwealth of Learning, Canada; Commonwealth Educational Media Centre for Asia, New Delhi; United Nations Conference on Trade and Commerce (UNCTAD), Geneva; and Aga Khan Foundation, amongst others.

# Panels

The language of the panels is Turkish. (Panel dili Türkçe'dir.)
Content will be confirmed closer to the event.

| | |
|---|---|
| November 09 [WED] | **Panel 1**<br>*Teknolojik İnovasyonun Gelişimsel Davranışlara Etkisi*<br>The Effect of Technological Innovation on Developmental Behaviors<br>**Moderator:** Assist. Prof. İnci Zaim Gökbay (İstanbul University) |
| | **Speakers** |
| | Prof. Mustafa BALKAYA (Albany University)<br>Gelişim Bozukluklarında Yakın İlişki Etkileri |
| | Prof. Sacide PEHLİVAN (İstanbul University)<br>Travmanın Nesilden Nesile İletimi: Epigenetik Hafıza |
| | Prof. Sadık TOPRAK (İstanbul University)<br>Davranış Bozukluklarının Hukuksal Sonuçları |
| | Prof. Mustafa ÖZÇETİN (İstanbul University)<br>Dijital Medya Platformlarının Gelişimsel Davranışlara Etkisi |
| | Assist. Prof. Seda Gökçe TURAN (Bahçeşehir University)<br>Siber Zorbalığın Çocukların Sosyal ve Bilişsel Gelişimine Etkisinin İncelenmesi |
| | **Panel 2**<br>*Eğitim, İstihdam ve Beyin Göçü*<br>Education, Employment and Brain Drain<br>**Moderator:** Aykut Seyrek (Ministry of Education, IT Teacher) |
| | **Speakers** |
| | Ertan BARUT (TOBB Yazılım Meclisi)<br>Sanayi, Akademi, Kamu ve STK Entegrasyonu |
| | Hüseyin ŞİMŞEK (Kctek Ar-Ge Bilişim)<br>Dijital Gelecekte Ölçme Değerlendirme ve Dijital Rozet Mimarisi |
| | Bora ŞEN (Bilge Adam)<br>İnsan Kaynağı ve Uzaktan Çalışma Modelleri |
| | Faruk İNALTEKİN (Bilkent Cyberpark)<br>Global Rekabet Edilebilirlikte Beyin Göçü ve Beyin Kazanımı |

| | |
|---|---|
| November 10 [THU] | **Panel 3**<br>*Eğitimde Yaratıcılık*<br>Creativity in Education<br>**Moderator:** Assoc. Prof. Tarkan GÜRBÜZ (Middle East Technical University) |
| | **Speakers** |
| | Prof. Arzu GÖNENÇ SORGUÇ (ODTÜ Tasarım Fabrikası)<br>Bilgisayarak Düşünmek ve Bilgisayar ile Düşünmek |
| | Prof. Erdinç ÇAKIROĞLU (BİLTEMM)<br>Okullarda ve Öğrenme Topluluklarında Yaratıcılık |
| | Prof. Ahmet SALTIK (Atılım University)<br>Atatürk ve Eğitimde Yaratıcılık |
| | **Panel 4**<br>*Gençlik Paneli*<br>Youth Panel<br>**Moderator:** Dr. Cihan ÜNAL (Hacettepe University) |
| | **Speakers** |
| | İclal Feyza ÇİĞDEM, Şevval Su YAZICI, Mehmet Tahir PARLADICI (High school students)<br>Robotik Teknolojilerin Deney Düzeneklerinde Kullanımı ve Teknolojik Öğrenme |
| | Ahmet Sina KURT (Secondary school student)<br>Eğitim teknolojileri – Bilimsel Araştırma Süreçlerine Dayalı Deneysel Öğrenme |
| | Ahmet Nusret ASMA (Burdur Mehmet Akif Ersoy University, Software Engineering student)<br>Metaverse ve Sanal Gerçeklik ile Eğitim Teknolojileri |
| | **Panel 5**<br>*Sürdürülebilir Yaşam için Eğitim*<br>Education for Sustainable Living<br>**Moderator:** Dilek Ertürk (Türkiye İnsan Hakları ve Eşitlik Kurumu) |
| | **Speakers** |
| | Dr. Ayşe KULA (MEB Temel Eğitim Genel Müdürlüğü Ar-Ge ve Projeler Daire Başkanlığı)<br>MEB'de Sürdürülebilir Kalkınma/Yaşam için Eğitim Kapsamındaki Çalışmalar |
| | Prof. Muharrem KILIÇ (Türkiye İnsan Hakları ve Eşitlik Kurumu)<br>İnsan Hakları Bağlamında Sürdürülebilir Yaşam |
| | Prof. Tülin Güler YILDIZ (Hacettepe University)<br>Erken Çocuklukta Sürdürülebilir Kalkınma için Eğitim |
| | Bahar ÖZAY (UNSDSN Türkiye)<br>Türkiye Genelinde Sürdürülebilir Kalkınma/Yaşam için Eğitim Bağlamında Yapılan Çalışmalar |

| | |
|---|---|
| November 11 [FRI] | **Panel 6**<br>*Eğitim ve Oyunlaştırma*<br>Education & Gamification<br>**Moderator:** Assoc. Prof. Meltem ERYILMAZ (Atılım University) |
| | **Speakers** |
| | Prof. Nergiz ÇAĞILTAY (Atılım University)<br>Medikal Eğitim Süreçlerinde Simülasyon ve Oyun Teknolojileri |
| | Assist. Prof. Göknur Kaplan (METU)<br>Eğitimde Oyunbaz Tasarım |
| | Özgür KARAYALÇIN (TOGED)<br>Türk Oyun Sektörünün Dünü ve Geleceği |
| | Tolga TUNCER (Güven Future)<br>Alzheimer Hastalarının Tedavisinde Oyun ve Yapay Zeka |
| | **Panel 7**<br>*Eğitimde Spor – Sporda Eğitim*<br>Sports in Education – Education in Sports<br>**Moderator:** Prof. Sevinç GÜLSEÇEN (İstanbul University) |
| | **Speakers** |
| | Prof. Bülent BAYRAKTAR (İstanbul University)<br>Branş Seçimi |
| | Assoc. Prof. Sinan BOZKURT (Marmara University)<br>Sporda Beceri Öğreniminde Farklılıkla Öğrenme Yaklaşımı |
| | Selin SÜREK (Özel Üsküdar SEV İlköğretim Kurumları)<br>Okul Öncesi Çocukların Hareket Eğitiminde Oyunlaştırma |
| | Ayhan YILDIZ (Avrupa Türk Futbol Federasyonu)<br>Sporun Eğitime Katkısı |
| | **Panel 8**<br>*Kapanış Konuşmaları*<br>Closing Remarks<br>**Moderator:** Dr. Aydın KOLAT (Informatics Association of Turkey) |
| | **Speakers** |
| | Prof. Petek AŞKAR (Ministry of Education) |
| | Assoc. Prof. Meltem ERYILMAZ (Atılım University) |
| | Prof. Gary GROSSMAN (Arizona State University) |
| | Mustafa ÇALIŞ (TÜYAFED Federation of Software Developers) |
| | Ahmet HANÇER (Enocta) |
| | Prof. Sevinç GÜLSEÇEN (İstanbul University) |

# Conference Programme

**09 NOVEMBER, 2022 - Wednesday**
**#New Technologies and Human #Economy**

| | | |
|---|---|---|
| | **OPENING CEREMONY** (Kemal Zaim Salonu) | |
| 09:30 - 10:30 | Assoc. Prof. Meltem ERYILMAZ (Atılım University)<br>Prof. Sevinç GÜLSEÇEN (İstanbul University)<br>Dr. Aydın KOLAT (Informatics Association of Turkey)<br>Mustafa ÇALIŞ (TÜYAFED Federation of Software Developers)<br>Rahmi AKTEPE (Informatics Association of Turkey)<br>Ahmet HANÇER (enocta)<br>Prof. Levent ŞAHİN (İstanbul University)<br>Prof. Yıldırım ÜÇTUĞ (Atılım University) | |
| | **KEYNOTE** (Kemal Zaim Salonu) | |
| 10:30 - 11:00 | **"Reforming Lives Through Education and Technology Hand in Hand"**<br>Prof. Abha SHARMA (SCERT, Delhi, India) | |
| | **PANEL** (Kemal Zaim Salonu) | **WORKSHOP** Salon A (1020) |
| 11:30 - 13:00 | **TEKNOLOJİK İNOVASYONUN GELİŞİMSEL DAVRANIŞLARA ETKİSİ**<br>Assist. Prof. İnci ZAİM GÖKBAY (Moderator)<br>Prof. Mustafa BALKAYA (Albany University)<br>Prof. Sacide PEHLİVAN (İstanbul University)<br>Prof. Sadık TOPRAK (İstanbul University)<br>Prof. Mustafa ÖZÇETİN (İstanbul University)<br>Assist. Prof. Seda Gökçe TURAN (Bahçeşehir University) | **Looking into the Abyss:**<br>**Developing Knowledge to Deal with Brain Drain**<br>**by**<br>Dr. Victor J. FREIDMAN (Max Stern Yezreel Valley College, Israel) &<br>Dr. Mehmet Selim DERİNDERE (İstanbul University, Turkey) |
| | **KEYNOTE** (Kemal Zaim Salonu) | |
| 13:00 - 13:30 | **"4.5 Million Years Journey of Learning"**<br>Prof. Soner YILDIRIM (Middle East Technical University, Turkey) | |
| | **PANEL** (Kemal Zaim Salonu) | **WORKSHOP** Salon A (1020) |
| 14:30 - 16:00 | **EĞİTİM, İSTİHDAM VE BEYİN GÖÇÜ**<br>Aykut SEYREK (Moderator - Ministry of Education)<br>Ertan BARUT (TOBB Yazılım Meclisi)<br>Bora ŞEN (Bilge Adam)<br>Faruk İNALTEKİN (Bilkent Cyberpark)<br>Hüseyin ŞİMŞEK (Kctek Ar-Ge Bilişim) | **Looking into the Abyss:**<br>**Developing Knowledge to Deal with Brain Drain**<br>**by**<br>Dr. Victor J. FREIDMAN (Max Stern Yezreel Valley College, Israel) &<br>Dr. Mehmet Selim DERİNDERE (İstanbul University, Turkey) |
| | **VIRTUAL PRESENTATION SESSION - ENGLISH** (Kemal Zaim Salonu) | |
| 16:30 - 18:00 | **Real-Time Data Collection and Analysis of User Experience in Video Games**<br>Tutku Tuncalı Yaman, Aydın Erden, Batıkaan Güneş<br><br>**Determination of Molecular Pathways and Gene Ontology of Genes Associated with Thromboangitis Obliterans Disease**<br>Gözde Öztan, Nilgün Bozbuğa, Halim İşsever<br><br>**Some Aspects of Usage of Educational Software in Mathematics Education**<br>Ján Gunčaga<br><br>**STEM Education in the Context of the Adaptive Approach**<br>Tetiana Bondarenko, Galina Yelnikova<br><br>**Accuracy Improvement in Heart Disease Prediction Using Logistic Regression Technique**<br>Marowa Kamal Aldeen, Mohammad Zmmo, G. Kalpana G, Mohamed Nedal Khatib | |
| | **GALA DINNER** | |
| 19:00 - 21:30 | Dinner | |

**10 NOVEMBER, 2022 - Thursday**
#Creativity

| | | |
|---|---|---|
| | **COMMEMORATION OF ATATÜRK** | |
| 08:45 - 09:30 | Commemoration of Atatürk ceremony will be organised by Atılım University | |
| | **PANEL** (Kemal Zaim Salonu) | **WORKSHOP** Salon A (1020) |
| 10:00 - 11:30 | **EĞİTİMDE YARATICILIK**<br>Assoc. Prof. Tarkan GÜRBÜZ (Moderator)<br>Prof. Arzu GÖNENÇ SORGUÇ (ODTÜ Tasarım Fabrikası)<br>Prof. Erdinç ÇAKIROĞLU (BİLTEMM)<br>Prof. Ahmet SALTIK (Atılım University) | **Looking into the Abyss: Developing Knowledge to Deal with Brain Drain**<br>**by**<br>Dr. Victor J. FREIDMAN (Max Stern Yezreel Valley College, Israel) &<br>Dr. Mehmet Selim DERİNDERE (İstanbul University, Turkey) |
| | **PANEL** (Kemal Zaim Salonu) | **WORKSHOP** Salon A (1020) |
| 12:00 - 13:30 | **GENÇLİK PANELİ**<br>Dr. Cihan ÜNAL (Moderator - Hacettepe University)<br>Stj. Dr. İsmail KAPURTU (Selçuk University)<br>İclal Feyza ÇİĞDEM, Şevval Su YAZICI, Mehmet Tahir PARLADICI (High School Students)<br>Ahmet Sina KURT (Secondary School Student)<br>Ahmet Nusret ASMA (Burdur Mehmet Akif Ersoy University, Software Engineering Student) | **Looking into the Abyss: Developing Knowledge to Deal with Brain Drain**<br>**by**<br>Dr. Victor J. FREIDMAN (Max Stern Yezreel Valley College, Israel) &<br>Dr. Mehmet Selim DERİNDERE (İstanbul University, Turkey) |
| | **KEYNOTE** (Kemal Zaim Salonu) | |
| 14:30 - 15:00 | **"Metaverse as the Foundational Technology Underpinning Learning: Policies, Risks and Opportunities in Education"**<br>Prof. Ramesh SHARMA (Dr. B. R. Ambedkar University Delhi, India) | |
| | **PANEL** (Kemal Zaim Salonu) | **ORAL PRESENTATION SESSION** Salon B (1022) |
| 15:00 - 16:30 | **SÜRDÜRÜLEBİLİR YAŞAM İÇİN EĞİTİM**<br>Dilek ERTÜRK (Moderator - Türkiye İnsan Hakları ve Eşitlik Kurumu)<br>Dr. Ayşe KULA (MEB Temel Eğitim Genel Müdürlüğü Ar-Ge ve Projeler Daire Başkanlığı)<br>Prof. Muharrem KILIÇ (Türkiye İnsan Hakları ve Eşitlik Kurumu)<br>Prof. Tülin Güler YILDIZ (Hacettepe University)<br>Bahar ÖZAY (UNSDSN Türkiye) | **KOBİ'lerin Bölgesel Kalkınmadaki Rolünü Artırmada Etkili Bir Araç Olarak DijitalDönüşüm Olgunluk Modellerinin Analizi**<br>Hüseyin Can Barutcu, Zümrüt Ecevit Satı<br><br>**A Locate Suggestion for PTT Centers Depends on Optimization Techniques**<br>Aristide Irakoze, Emre Akadal<br><br>**Kitlesel Açık Erişimli Kurslarda Öğrenme Analitiğinin Uygulanması**<br>Ebru İnan Barutcu |
| | **VIRTUAL PRESENTATION SESSION** (Kemal Zaim Salonu) | |
| 17:00 - 18:30 | **Flipped Classroom Method Application Case Study Analysis**<br>Natalija Lepkova, Sevinç Gülseçen, Tarık Talan<br><br>**e-Learning and Dental Simulators in Dentistry, Truth Of Metaverse**<br>Ümit Begüm Güray Efes<br><br>**A Survey on Feasibility of Educational Certifications Verification Using Blockchain**<br>Maziar Ravan Bakhsh, Zümrüt Ecevit Satı, Sevinç Gülseçen<br><br>**Educational Robots in Higher Education's Systems: Systematic Mapping Study**<br>Fatimah Aldaoseri, Nergiz Ercil Çağıltay | |

**11 NOVEMBER, 2022 - Friday**
**#Gamification**

| | | |
|---|---|---|
| | **PANEL** (Kemal Zaim Salonu) | **ORAL PRESENTATION SESSION** Salon B (1022) |
| **10:00 - 11:30** | **EĞİTİM VE OYUNLAŞTIRMA**<br>Assoc. Prof. Meltem ERYILMAZ (Moderator - Atılım University)<br>Prof. Nergiz ÇAĞILTAY (Atılım University)<br>Assist. Prof. Göknur Kaplan (METU)<br>Özgür KARAYALÇIN (TOGED)<br>Tolga TUNCER (Güven Future) | **Kripto Paralar Deneyimi Doğrultusunda Finans Dışı Sektörlerde Blokzincir Teknolojisi Kullanımı**<br>Emir Atay, Asiye Bilgili<br><br>**Aynadan İçeri: Şehir Mi Akıllı, İnsan Mı?**<br>Burcu Esin İliş, Sevinç Gülseçen<br><br>**Twitter Üzerinden Elde Edilen Veriler ile Veri Analizi**<br>Derya Çakıcı, Sedanur Yeşilkaya Koç, Murat Gezer<br><br>**Creating a Self-Regulated and Collaborative Learning Environment: Attitudes of Employees Working from Home Towards Social Media Benefits on E-Learning Platforms**<br>Selim Yazıcı, Fatih Köroğlu, Betül Sünter, Elif Naz Çelik |
| | **PANEL** (Kemal Zaim Salonu) | |
| **12:00 - 13:30** | **EĞİTİMDE SPOR – SPORDA EĞİTİM**<br>Prof. Sevinç GÜLSEÇEN (Moderator - İstanbul University)<br>Prof. Bülent BAYRAKTAR (İstanbul University)<br>Assoc. Prof. Sinan BOZKURT (Marmara University)<br>Selin SÜREK (Özel Üsküdar SEV İlköğretim Kurumları)<br>Ayhan YILDIZ (Avrupa Türk Futbol Federasyonu) | |
| | **VIRTUAL PRESENTATION SESSION** (Kemal Zaim Salonu) | |
| **14:30 - 16:00** | **Konum Tabanlı Gerçekliği Artırılmış Mobil Oyunla Van Şehri Kültürel Varlıklarını Öğrenmek**<br>Emrah Tosun, Zerrin Ayvaz Reis<br><br>**Mikrodizi Veri Kümesinde Eksik Veri Tamamlama**<br>Yalçın Özkan, Çiğdem Erol<br><br>**Kampanya Başarısı Tahmininde Öznitelik Seçimi**<br>Emrah Sezer, Ahmet Erkan Çelik, Teoman Berkay Ayaz<br><br>**Müşteri Kayıp Analizinde Öznitelik Seçimi: B2B İşletmede Vaka Analizi**<br>Semanur Sancar, Meryem Uzun Per, Serra Çelik, Murat Gezer | |
| | **CLOSING REMARKS I** (Kemal Zaim Salonu) | |
| **16:00 - 17:30** | **Dr. Aydın KOLAT (Moderator)**<br>Prof. Petek AŞKAR (Ministry of Education)<br>Assoc. Prof. Meltem ERYILMAZ (Atılım University)<br>Prof. Gary GROSSMAN (Arizona State University)<br>Mustafa ÇALIŞ (TÜYAFED Federation of Software Developers)<br>Ahmet HANÇER (enocta)<br>Prof. Sevinç GÜLSEÇEN (İstanbul University) | |
| | **Important** | |
| | **The language of the panels is Turkish.**<br>(Panel dili Türkçe'dir.) | |

## Sponsors

ENOCTA

QULAK

VEDUBOX

TÜBITAK

BTHABER

FL2022 is supported by
THE SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TURKEY (TÜBİTAK)
2223-B Support Program