



“Internet Generation Day”

Budapest, 12 September 2019, Hungexpo

Are you a university student who is interested in the latest trends and innovations in the ICT sector? Would you like to have a glimpse of the future of the ICT world, and to get to know innovative technologies, products, services and applications? Do you have innovative ideas yourself, related to the ICT sector, and are you looking for the perfect place to voice them? Do you want to get acquainted with representatives of big ICT companies or promising start-ups and leading universities? Or are you contemplating creating your own business, but do not know where to start?

If your answer to the any of the above questions is ‘yes’, then come and join us at the “**Internet Generation Day**” at **ITU Telecom World 2019**, and take advantage of the following programmes organised by the International Telecommunication Union (the United Nation’s specialized agency for information and communication technologies), the Ministry of Foreign Affairs and Trade, and the Ministry for Innovation and Technology of Hungary on **12 September 2019** at the premises of **Hungexpo (1101, Budapest, Albertirsai út 10.)**.

Students registering through their university benefit from free entrance. Contact itu2019@mfa.gov.hu for more information.

Hungarian nationals and residents benefit from free entrance to the Exhibition and a 50% discount on Forum passes each day of the conference, as well as free entrance to all Internet Generation Day events on 12 September. If you are interested, register [here](#).

At the Hungarian Pavilion you can also meet established tech companies, start-ups, universities and incubators. The full list of Hungarian exhibitors can be found [here](#) (by using the country-filter).

You can find a high-level overview of the venue [here](#).

Please note that the programme may change towards the event so please come back and check it frequently.

Overview

	<i>Hungarian National Pavilion Agora (Hall G, Exhibition Area)</i>	<i>Innovation Space Stage A (Hall F, Exhibition Area)</i>	<i>Hungarian National Pavilion Main Meeting Room (Hall G, Exhibition Area)</i>	<i>Innovation Space Stage B (Hall F, Exhibition Area)</i>	<i>Innovation Space Business Matchmaking Zone (Hall F, Exhibition Area)</i>	<i>Room 4 Helicopter (Hall A, Forum)</i>	<i>Room 5 Biro (Hall A, Forum)</i>
08.30	Registration						
09.00	Exhibition area closed					Internet Generation Forum (IGF) All day	Space event All day
10.00	MaxWhere in Education and Industry 4.0 (lecture) <i>Széchenyi István University</i>	Emerging Climate Disaster Technologies (panel discussion) <i>Antall József Knowledge Center</i>	Media awareness (workshop) <i>National Media and Infocommunications Authority's Magic Valley Media Literacy Education Centre</i> Prior registration required via email	Interactive demystify coding workshop <i>Green Fox Academy (max. 20 attendees)</i> Prior registration needed here	AI Exhibition <i>Hungarian AI Coalition</i> All day		
10.30	Continuous IT Security Management (lecture) <i>University of Dunaújváros</i>						
11.00	Federated Artificial Intelligence: learning, data and knowledge fusion, decision support (lecture) <i>Budapest University of Technology and Economics</i>	Media awareness (workshop) <i>National Media and Infocommunications Authority's Magic Valley Media Literacy Education Centre</i> Prior registration required via email					

11.30	Supporting vertical industries by 5G networks (lecture) <i>Budapest University of Technology and Economics</i>	Regulatory challenges of AI, social platforms and the freedom of speech (lecture) <i>Károli Gáspár University of the Reformed Church in Hungary</i>					
12.00	Urban Mobility Analysis based on Cellular Network Information (lecture) <i>Óbuda University</i>	INPUT & Digital Success Programme Network (presentation) <i>Empowered by Neumann Nonprofit Ltd</i>					
12.30	Break						
13.00	Quantum Technologies at the Budapest University of Technology and Economics (lecture) <i>Budapest University of Technology and Economics</i>	Learning environment in a digital pedagogical culture (lecture) <i>Eszterházy University</i>					
13.30	Media awareness (lecture) <i>National Media and Infocommunications Authority</i>	Teaching coding and mentoring the youngest generation (presentation) <i>Skool</i>					
14.00	Exhibition area closed						
15.00	Event Closing Awards Ceremony and Farewell Reception of ITU Telecom World 2019 (Forum)						

THURSDAY (12 SEPTEMBER 2019)



Internet Generation Day, powered by the Ministry of Foreign Affairs and Trade, the Ministry of Innovation and Technology, Neumann Non-Profit Ltd. and the Scientific Association for Infocommunications

Sessions at the Internet Generation day will take place at various locations, including the Agora, the Hungarian Pavilion, the Innovation Space at the Exhibition, as well as Room 4 – Helicopter and Room 5 – Biro in the Forum.

HUNGARIAN NATIONAL PAVILION AGORA

(Hall G, Exhibition area)

10:00 MaxWhere in Education and Industry 4.0 (Lecture) by *Prof. BARANYI, Peter Ph.D., D.Sc., Head of the Multidisciplinary Ph.D. School of Engineering Sciences, Széchenyi István University, and Professor at Dpt. Telecommunications & Media Informatics, Budapest University of Technology and Economics, Hungary*

- MaxWhere is a 3D platform that includes a 3D browser, 3D Cloud and AppStore. It has breakthrough features for education, digital twin-based training, management, industry 4.0 applications, exhibitions and presentations. MaxWhere gears up the brain (utilizes the 3D awareness of the brain, as proved by cognitive scientists); as a result, MaxWhere's users are capable of +50% better comprehension, memory and +30% faster cooperation in all digital tasks. Universities and companies are using MaxWhere on a daily basis, and have validated its breakthrough potential in their projects

10:30 Continuous IT Security Management (Lecture) by *Dr. Ferenc Leitold Ph.D, University of Dunaujváros*

- IT Security Management requires different assessments of the elements involving the IT security level in an organization. For measuring the security level of an IT infrastructure, we must consider several relevant relating areas. Three factors are identified in the applied model of cyber-threats – Distributed Vulnerability Assessment (DVA): (1) characteristics and prevalence of harmful cyber-threats; (2) vulnerabilities of IT infrastructure and its processes and (3) vulnerabilities deriving from users' behavior. Using a metric, the impact of a threat typical of a given infrastructure can be determined. Using the DVA approach, the integrated vulnerability is decomposed and distributed to the contributing elements of individual user susceptibility, individual IT infrastructure elements, and the individual protecting cybersecurity services and applications. From the DVA results, vulnerability is quantitatively attributed to the various internal contributing components. This allows different contributing components to be assessed using comparable metrics. DVA allows information security managers to pose and compare the results of "what if" queries to see the vulnerability reduction of various available.

11:00 Federated Artificial Intelligence: learning, data and knowledge fusion, decision support (Lecture) by *Péter Antal, Dept. of Measurement and Information systems, Budapest University of Technology and Economics*

- Federated learning aims to perform unified inductive inference over datasets separated at individual and institutional levels. The corresponding distributed, multi-party learning process has different computational properties and requires drastically different IT infrastructure than its predecessors. However, classical challenges in learning from multiple data sources remain unchanged, such as

varying data quality, non-representative data, missing data, and the presence of confounders. Further challenges for this new machine learning framework are the learning from vertically partitioned data and privacy-preserving use of sensitive background knowledge in inductive inference. Finally, evaluation, interpretation, and application of models from federated learning require novel technologies as well. I provide an overview of these challenges with examples from biomedical research and health care.

11:30 Supporting vertical industries with 5G networks (Lecture) by Csaba Simon, Dept. of Telecommunications and Media Informatics, *Budapest University of Technology and Economics*

- The introduction of 5G networks will bring substantial network improvements and higher performance compared to the previous generations of mobile networks, impacting the way we consume multimedia services, fuelling the digitization process in many vertical industries and ultimately increasing our working productivity. 5G adoption and generic impact on the stakeholders depends on its ability to offer both technologically and economically viable alternatives to implement new services. During our research and innovation activities we pursue the development and the testing of efficient ways of supporting vertical industries in 5G. In this presentation we present our ongoing work to deploy a fully-fledged 5G system at the Budapest InfoPark Campus site, built from commercial 5G components. We are integrating specific use cases from two verticals with major economic and social impact into our 5G system. Our goal is to highlight the added value of selected 5G features to both smart agriculture scenarios and real-time automated control of industrial cooperative robots.

12:00 Urban Mobility Analysis based on Cellular Network Information (Lecture) by Imre Felde, John von Neumann Faculty of Informatics, *Óbuda University*

- The information about people's mobility patterns in a city could play an important role in understanding the behaviour of urban environments. This study is based on the characterization of anonymized records of mobile devices performed in Budapest. Human mobility has been analyzed in terms of the number of mobile phone activities including calls, texting and data transfer. We use heat maps to visualize the temporo-spatial dynamics of the movement patterns within the crowd. The results obtained can be helpful in improving the understanding of human mobility urban environments.

12:30 Break

13:00 Quantum Technologies at the Budapest University of Technology and Economics (Lecture) by Sándor Imre, Dept. of Networked Systems and Services, *Budapest University of Technology and Economics*

- Quantum mechanics-based sensors, computers and communications offer new horizon for solving state of the art engineering problems. This talk presents a survey of quantum related activities and results of research teams at Budapest University of Technology and Economics.

13:30 Media awareness (Presentation) by *National Media and Infocommunications Authority*

- The results of the Media Awareness Workshop (Hungarian Pavilion, see below) presented to the entire audience.

14:00 Exhibition area closed (programmes continue at the Forum)

Moderator of the day: Balázs Bartóki-Gönczy, National University of Public Service

INNOVATION SPACE STAGE A

(Hall F, Exhibition area)

10:00 Emerging Climate Disaster Technologies by *Antall József Knowledge Center* (Panel discussion)

- With the rising number of extreme weather events, which are becoming more and more common, the need for technologies to provide prediction and ability to react on time is increasing as well. New technological solutions which generate and transmit emergency-related data are the main cornerstones for better decision-making when crises strike. The aim of the discussion is to map existing new technologies and see how to make best use of these in disaster risk management and in recovery efforts.
- Moderator: Cecília Varsányi, Head of Sustainable Development Department, AJKC
- Panellists: Gabriella Szépszó, meteorologist, Unit of Modelling, Hungarian Meteorological Service; Zsolt Pátkai, meteorologist, Unit of Weather Forecasting, Hungarian Meteorological Service; Mátyás Wéber, Consultant at Telecommunication and Media Advisory, KPMG

10:45 Financial consciousness (Workshop) by Melinda Havas, *Family Finances (MKB FintechLAB)*

- 53% of youngsters don't think their bank offers anything more or different from the rest, 1/3 of them would switch banks within 3 months if a more lucrative option came their way, and 33% think they don't need traditional financial institutions at all. Furthermore, the level of financial literacy is extremely low amongst younger generations, 52% of them don't reach the minimum point on tests measuring this knowledge. The described tendencies arise from the specific nature and qualities of Gen Z, the digital natives who were born at the end of the 1990s and the beginning of the 2000s. How can we satisfy the needs of this generation?

11:30 Regulatory challenges of AI, social platforms and the freedom of speech (Lecture) by Dr. Tamás Klein, *Károli Gáspár University of the Reformed Church in Hungary*

- Wider economic and societal context of the regulation of AI: pros and cons of AI, AI in the EU, role of regulation in the development of AI in the EU. Tools of regulation of AI: data protection law; cybersecurity law; monitoring and liability.
- Search engines; Service regulation and procedures in the social media; Fake news and filter bubbles; New interpretation of the public forum doctrine

12:00 INPUT & Digital Success Programme Network (Lecture) by Dániel Bozsoki DJKK and Neumann Ltd.

- Introduction – importance of digital skills in the civilian and business sector
- Digitalization and business growth – why and how?
- Startups in ICT – Overview of the INPUT program
- Digital skills development in Hungary – Overview of the Digital Success Programme, focusing on the Digital Success Programme Network
- What the future holds – goals and plans of the Neumann Nonprofit Ltd.

12:30 Break

13:00 Learning environment in a digital pedagogical culture (Lecture) by Dr. habil Bertalan Komenczi, *Eszterházy University*

- The radical changes impacting the cultural landscape in such a short time pose a significant challenge both for the science and practice of education. We are in the midst of an evolving digital pedagogical culture. The incorporation of reasoning over electronic, digital learning environments into a framework composed of mind, culture, and technology present novel possibilities to create a brand-new mindset on the subject. This approach facilitates the viewing of such learning environments in the process of the human cognitive evolution as well. The modern human mind developed in three consecutive stages as a result of the interplay between culture and cognition. Up to the present three kinds of “cognitive habitus” emerged in the course of the cognitive evolution and presently a new one is taking shape. Each cognitive habitus has a characteristic interface for the interaction between mind and the respective cultural context. The distinctive interface of the information society is the screen display. Digital learning environments organized around screen displays promote personal learning networks and give rise to a new kind of pedagogical culture.

13:30 Teaching coding and mentoring the youngest generation (Presentation) by *Fruzsina Kollányi, Skool*

- Have you ever considered, maybe tried teaching coding to youngsters? Are you interested in apps, tools, methodology? Maybe you want to involve more girls into your sessions, or create a workshop for less advantaged kids? If you have questions or experience to share, join us for this open discussion session facilitated by SKOOL community members.

14:00 Exhibition area closed (programmes continue at the Forum)

Moderator of the day: Alessandro D'Onofrio, Antall József Knowledge Centre

HUNGARIAN NATIONAL PAVILION

MAIN MEETING ROOM

(Hall G, Exhibition area)

10:00 Media awareness workshop (session 1) by the *National Media and Infocommunications Authority's Magic Valley Media Literacy Education Centre*

- Our media literacy centres hold interactive media awareness workshops every day for students between 9-16, in which they get to learn about the complicated decisions behind media production through creative work. At this event, attendees, after prior registration, can create and edit online video ads and magazine samples in small (3-4 person) groups. Examples of the results will be presented afterwards to the entire audience in a dedicated session main stage.
- **Maximum 12 attendees, pre-registration is needed via [email](#).**

11:00 Media awareness workshop (session 2) by the *National Media and Infocommunications Authority's Magic Valley Media Literacy Education Centre*

- **Maximum 12 attendees, pre-registration is needed via [email](#).**

INNOVATION SPACE STAGE 2

(Hall F, Exhibition area)

10:00 Interactive demystify coding workshop by *Green Fox Academy*

- We think that coding is one of the most exciting creative fields of our time. It is a tool that can give anyone the opportunity to influence the world. That's why we would like to inspire more and more people to try it! We also know, however, that the world of programmers is surrounded by many false associations. What do you think, how many times have we heard the phrase "Oh, programming is absolutely not for me!?" Our goal is to organize events that help to destroy these misconceptions. So now, you can try programming with us at the ITU Telecom World event!
- Good to know:
 1. The workshop starts from a completely beginner level, so feel free to join even if you haven't coded in your life.
 2. On both occasions you will become familiar with the JavaScript language on an online interface.
 3. You will need a laptop at the workshop!
- **Maximum 20 attendees, pre-registration is needed [here](#).**

14:00 Exhibition area closed (programmes continue at the Forum)

AI EXHIBITION

(Business Matchmaking Zone, Hall F, Exhibition area)

10:00 AI exhibition by *Hungarian AI Coalition*

- Mobile Motion Lab
- Multilogic
- DMLab
- PROMECOM (Medistance)
- iLex Systems
- Black Cell
- ELTE Department of Artificial Intelligence
- Stratis
- Precognox
- Régens
- AutSoft
- Medinnoscan
- Lexunit
- Hungarian Academy of Science Research Institute for Linguistics
- Hallatlan Alapítvány (Unheard Foundation)

14:00 Exhibition area closed (programmes continue at the Forum)

INTERNET GENERATION FORUM

(Room 4 – Helicopter, Hall A, FORUM area)

In conjunction with the ITU Telecom World

9:00 Opening Remarks

- Károly Solymár, Ministry of Innovation and Technology (Hungary)
- Ervin Kaizinger, NMHH (Hungary)
- Agnieszka Gładysz, UKE (Poland)

9:30 The future of Internet in CEE (Panel discussion)

- Moderator: Joanna Kulesza, At-large/ICANN; Assistant professor of international law and internet governance/University of Lodz
- Panellists: Oliana Sula (SEEDIG Ambassador Albania, IGF Albania), Liljana Pecova-Ilieska (CEO, Impetus - Center for Internet, Development and Good Governance), Ivett Paulovics (Case Manager, MFSD Intellectual Property Dispute Resolution Center Italy), János Zsakó (Managing Director; Council of Hungarian Internet Providers), Péter Major (UN)

11:15 Information in the age of AI (Panel discussion)

- Moderator: Levente Nyakas, NMHH
- Panellists: Fanni Hidvégi (Access Now, EU AI HLEG), Gosztanyi Gergely (ELTE), Krzysztof Izdebski (ePantswo), Elena Dodonova (Internet Governance Unit, Council of Europe), Arthur Keleti (Voluntary CyberDefence Collaboration), Gabriella Cseh (Facebook)

12:30 Break

13:00 Keeping the Internet of tomorrow safe and secure for youngsters (Panel discussion)

- Moderator: Ottó Dalos (CISCO)
- Panellists: Predrag Tasevski (Cloud Security Expert, Germany); Daniel Berzsenyi (National Cyber Competition, Hungary), Jean-Jacques Sahel (ICANN); Zoltán Rajnai, (University of Óbuda, Hungary); Katalin Baracsi (HTE Information Security Section, EIVOK, Hungary)

14:00 IGF Student competition – Final (presentations)

- Jury: Péter Major (UN), Joanna Kulesza (ICANN At-large), Dóra Kövendi (NMHH), Alina Rendes (Ministry of Innovation and Technology, Hungary), Máté Mester (Mspire)

15:00 Closing remarks

Moderator of the day: Péter Major, UN, Hungarian GAC Member, ICANN

You can find out more about this event [here](#).

SPACE EVENT

(Room 5 – Biro, Hall A, FORUM area)

9:00 Space Activities in the V4 Countries

Opening Speech – Orsolya Ferencz, Ministerial Commissioner for Space Activities

- Poland: Marcin Cichy – President of the Polish Office of Electronic Communications
- Slovakia: Dr. Iveta Rusinová – Ministry of Education, Science, Research and Sport of the Slovak Republic
- Czech Republic: Michal Reinöhl - Ministerial Counsellor from the Space Technologies and Applications Unit, Ministry of Transport of the Czech Republic
- Hungary: Diána Daczi LL.M. - Expert on Space Communications, National Media and Infocommunications Authority

11:00 Break

11:15 Poster Session

Poster session in space broadcasting, telecommunication and space communication prepared by the students, who will present the best tenders.

- Sara El Gaily – PhD Student, Budapest University of Technology and Economics
- Máté Galambos – University Student, Dennis Gabor College
- Péter Pataki - PhD Student, University of Győr

12:00 Risks in the IT sector

Speakers will discuss all the problems caused by both the human factor and the non-human factor.

- László Csurgai-Horváth - Budapest University of Technology and Economics
- Levente Dudás - Budapest University of Technology and Economics
- Ákos Kovács – Phd Student, University of Győr
- Máté Liszi - Phd Student, University of Győr

14:00 Closing of the event

Moderator of the day: Gergely Bakai, Ministry of Foreign Affairs and Trade, Hungary