



Hungarian Programme

ITU Telecom World 2019 Budapest, 9-12 September 2019, Hungexpo

Are you 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? Are you interested in Robotics, IT Security, Start-ups, the next generations and the future of the Internet? 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 **“Agora Sessions” of the Hungarian Pavilion and the “Internet Generation Day”** at [ITU Telecom World 2019](#). Take advantage of the following programmes organised by the Ministry of Foreign Affairs and Trade, and the Ministry for Innovation and Technology, the ICT Association of Hungary, Infotér, the INPUT Programme, the Scientific Association for Infocommunications and many more at the premises of **Hungexpo (1101, Budapest, Albertirsai út 10.)**.

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).

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

Students registering through their university benefit from free entrance to all Internet Generation Day events on 12 September. Contact itu2019@mfa.gov.hu for more information.

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

	MONDAY <i>Entering the robotic age</i> (9 SEPTEMBER 2019)	TUESDAY <i>IT Security</i> (10 SEPTEMBER 2019)	WEDNESDAY <i>Global Collaboration</i> (11 SEPTEMBER 2019)	THURSDAY <i>Internet Generation Day</i> (12 SEPTEMBER 2019)				
10:00		10:15 Welcome Speeches		10:00 MaxWhere in Education and Industry 4.0 <i>(Széchenyi István University)</i> 10:00 Emerging Climate Disaster Technologies <i>(Antall József Knowledge Center)</i>	Media Awareness Workshop (MMH's Magic Valley Centre) Interactive demystify coding workshop (Green Fox Academy) AI Exhibition (Hungarian AI Coalition) Internet Generation Forum (IGF) Space event			
10:30	10:10 Welcome Session Fostering Entrepreneurship: The UN Global best practice programme INPUT Hungary <i>(INPUT Hungary)</i>	10:30 Keynote The current state of cyber defence in Hungary (<i>Cyber Coordinator</i>)	10:30 Continuous IT Security Management <i>(University of Dunaújváros)</i>					
11:00		11:00 Overall state and picture of cybersecurity (Panel Discussion)	11:00 Startup Disruption in Corporate Innovation: Reality or Wishful Thinking? (Panel Discussion)	10:45 Financial consciousness <i>(MKB FintechLAB and Family Finances)</i> 11:00 Federated Artificial Intelligence: learning, data and knowledge fusion, decision support (BME)				
11:30			11:30 Supporting vertical industries by 5G networks (BME)					

				11:30 Regulatory challenges of AI, social platforms and the freedom of speech (Károli Univ.)				
12:00		12:15 Everyone is (or could be) a hacker (ACPM IT Ltd.)	12:00 Break / Meet the INPUT team at the Exhibitor space	12:00 Urban Mobility Analysis based on Cellular Network Information (Óbuda University)				
		12:35 Fintech innovation in Hungary (MKB Fintechlab)		12:30-13:00 Break	12:00 INPUT & Digital Success Programme Network (Neumann Nonprofit Ltd)			
12:30		13:05 Phishing 2.0 demonstration (ACPM IT Ltd)			13:00 Quantum Technologies at the Budapest University of Technology and Economics			
13:00		13:35 How to transform the weakest link to the biggest asset of cyber security? (CYEX)		13:30 INPUT Startup Competition (Registration/Welcome ceremony)	13:00 Learning environment in a digital pedagogical culture (Eszterházy University)			
13:30			14:00 INPUT Startup Competition Finals	13:30 Media awareness (NMHH)				
				13:30 Teaching coding and mentoring the youngest generation (Skool)				
14:00	14:00 Keynotes 14:00- 14:20: Robotics and	14:05 – 15:00 Break		14:00 Exhibition area closed				

14:30	<p>AI: the twin-engine of your business (<i>Neuron Solutions</i>)</p> <p>14:20 – 14:40: School 4.0 – robots are already in the classroom (<i>DPMK</i>)</p> <p>14:40 – 15:00: Everyday humanoid robots in the near future (<i>Netlife Robotics</i>)</p>						
15:00	<p>15:00 Manufacturing/Mobility</p> <p>15:00 – 15:20: Tower of Babel of the technology? (<i>BME</i>)</p> <p>15:20 – 15:40: About intelligent and safe decision making (<i>AI Motive</i>)</p>	<p>15:00 IT security education issues, Child protection (Panel discussion)</p>		<p>15:00 Event Closing Awards Ceremony and Farewell Reception of ITU Telecom World 2019 (Forum)</p>			
15:30	<p>15:40 – 16:00: Rise of The Robots (<i>OnRobot</i>)</p>		<p><i>15:35 - 16:00 Break</i></p>				
16:00	<p>16:00 Robotics in education and social life</p> <p>16:00 – 16:20: Be a Self-Driving Car (<i>Green Fox Academy</i>)</p> <p>16:20 – 16:40: Teaching robotics, preparing for life (WRO)</p>	<p>16:20 SIM Hijacking (ACPM IT Ltd)</p>	<p>16:00 INPUT Startup Competition Announcement/Award Gala</p>				
16:30							

	16:40 – 17:00: The future and generations of workforce <i>(Orsolya Nemes)</i>		
17:00	17:00 – 17:20 Hungarian humanoid robot development and production <i>(Enjoy Robotics)</i>	16:45 Startups in IT Security <i>(Oxo Cybersecurity Lab)</i>	
		17:10 What is Red Teaming and why do You need it? <i>(Infotér Association)</i>	
17:30		17:30 Cyber SOC <i>(Andrews Engineering Ltd.)</i>	
		17:45 Red Team vs SOC “e-sport like” <i>(ACPM IT Ltd.)</i>	

For further information see the detailed agenda below.



Budapest 9–12 September

Detailed Agenda

AGORA SESSIONS

(Exhibition area, Hall G)

DAY 1 – MONDAY (9 SEPTEMBER 2019)

Welcome Session, powered by INPUT



10:10 Welcome Session: Fostering Entrepreneurship: The UN Global best practice programme
INPUT Hungary – Dániel Vincz (*INPUT Hungary*)

- INPUT Program is a high-priority government project financed by the EU, which was established in 2016 by the Hungarian Government with contributions from the EU Regional Development Fund. The Program aims to create and nurture internationally competitive Hungarian tech startups, and to facilitate the growth and transformation of the Hungarian startup ecosystem by encouraging entrepreneurs and helping them building sustainable ventures.

Entering the robotic age, powered by the ICT Association of Hungary



14:00 Keynotes

- **14: 00- 14:20: Robotics and AI: the twin-engine of your business** - Ottó Werschitz, Business development director (Neuron Solutions)

Robots and artificial intelligence (AI) – they are related but not synonymous. We have been using robots in manufacturing and outside industry plants for many years. On the other hand, the day-to-day use of AI in enterprise or in-home applications is relatively new. In fact, in spite of the already spectacular market development, we are still far from the maturity of applying AI. But what do we mean by AI and how can it enhance the use of robot operations or help other enterprise automation efforts? In my presentation, following a brief introduction of the key concepts of machine learning, which is the practical implementation of AI, I will give an overview of how it can support businesses and how it can enhance robotic applications. As a next step, I will give a snapshot of the state of AI in Hungary and show some already successful enterprise applications.

- **14:20 – 14:40: School 4.0 – robots are already in the classroom** - Ádám Horváth, Head of Division, DPMK

New technologies keep on entering education to enhance teaching. Until now these digital tools have helped or replaced steps and functions of traditional teaching. However, the industrial revolution has not only changed some steps of production, but it has transformed the whole process. How will this whole scale of change affect our everyday life and how can education prepare children for this change?

- **14:40 – 15:00: Everyday humanoid robots in the near future** - Áron Tanos, Business stream manager, Netlife Robotics

Humanity has been dreaming about humanoid robots for thousands of years. Soon they will become everyday reality and live with us. Where will we meet them? What effect will they have on our everyday life, and what social and economic consequences will this have? What can we expect from these robots, and what will they expect from us? Áron Tanos, business stream manager at Netlife Robotics will share some thoughts about these topics.

15:00 Manufacturing/Mobility (Presentations)

- **15:00 – 15:20: Tower of Babel of the technology?** - Dr. Bálint Kiss, Associate professor, Department head, Budapest University of Technology and Economics, Dept. of Control Engineering and Information Technology

Although it is not fundamentally different from other useful, advanced (and expensive) technologies, robotics occupies a special place in people's minds. The ever-growing number of robots periodically raises the issue of self-awareness and their rebellion, which are the subjects of numerous films, books and dystopia. This talk presents a large set of robot application examples (both historical and up-to-date), and the major current trends in robotics and the AI technologies that may shape robot operations. Accurate prediction of the developments in the field is difficult, but it can be shown that robotics is a highly innovative combination of multiple advanced technologies which can offer great services and opportunities to mankind without dangers.

- **15:20 – 15:40: About intelligent and safe decision making** - Gergely Debreczeni, Chief Scientist, AI Motive

Decision making, path planning and control are critical modules of a self-driving software stack. Components that have no room for failures of any kind, and where redundancy and diversity is not so trivial to implement. In order to manoeuvre seamlessly in the human dominated traffic, one expects human-like decisions and planning from an autonomous vehicle - human-like, but much safer than that. This is a challenging task. The talk will present one of the possible solution, which is built on the top of the Model Predictive Path Integral Control (MPPIC) formalism that combines the results and uses the mathematical tools developed in other domains of science including Thermodynamics, Quantum mechanics, Stochastic Optimal Control and AI. A short self-contained introduction will be followed by the qualitative discussion of the method presenting its advantages, disadvantages and areas that need further development or optimization.

- **15:40 – 16:00: Rise of The Robots** - Nóra Bereczki - Head of Global Marketing, OnRobot

Industrial Robotics is a rapidly evolving technology. Industrial automation facilitates an increase in the product quality, reliability and production rate while reducing production and design cost by adopting new, innovative and integrated technologies and services. Besides robots, various tools help manufacturers meet their production goals. Smarter and more versatile robotic tools, or end-of-arm tooling (EOAT), empower robots to take over repetitive tasks, freeing them to handle adaptive, higher-precision and more intelligent applications that in the past were too complex to automate. Nora Bereczki, Head of Global Marketing at OnRobot will present the latest robotic trends in industrial automation and how new technologies will help companies to grow.

16:00 Robotics in education and social life (Presentations)

- **16:00 – 16:20: Be a Self-Driving Car – What does a developer do exactly?** - Roland Béres, Mentor, Green Fox Academy (With Live Demo)

Robotics and automation are just around the corner. We've been hearing it for a while. Are they really? How can we keep up with these transformations? Let's discuss the importance and relevance of these issues and whether we need to learn programming right now. Self-driving cars are a great example of automation. They solve a lot of problems and bring in a lot of hard ones like the ethical decisions. Try out for yourself how hard these decisions are for the people who are involved in building an automated car!

- **16:20 – 16:40: Teaching robotics, preparing for life** - Balázs Koren, Digital education expert, ELTE

Teachers in school are usually criticised on the basis that what they teach is old-school. Most of the tests and exams require individual knowledge and to be able to work alone. Outside schools we should be able to work in teams, plan and execute, make decisions and take responsibility for our decisions. How can we build a bridge between the two? Doing robotics and preparing students for a robotics competition, we prepare the kids to work in teams, collaborate, and use technology available around them. They work on a project which they are proud of. We build a bridge between classrooms and the labour market.

- **16:40 – 17:00: The future and generations at work** – Orsolya Nemes – generation expert

The advancement of robotics and automation are changing the landscape of what and how we work in the next decades. Also, it redefines the skills we need to stay afloat in the job market. We need to rethink what the key to the successful employee needs. Also, based on which generation we belong to, we will need different education and re-education. What should we teach to the youngest ones starting school now and how should we re-skill ourselves and our employees?

- **17:00 – 17:20 Hungarian humanoid robot development and production** - Tibor Csizmazia, CTO, Enjoy Robotics, E-Szoftverfejlesztő Kft.

You can discover the age of robots already today at Enjoy Budapest Cafe and Aparthotel (Corvin Quarter). Cooperating with each other Enjoy Robotics, BME MOGI and ELTE TTK are working on developing robots that can integrate socially into workplaces. Designing and implementing technology, appearance, communication, social interaction, and production is an exciting challenge. Join us to become an expert of the future!

Moderator of the day: Zoltán Bátky

DAY 2 – TUESDAY (10 SEPTEMBER 2019)

IT Security, powered by Infotér



10:15 Welcome Remarks

- Dr. Bence Kópiás, Member of the Board, Infotér Association
- Dr. Csaba Kelemen, Head of Department, Ministry for Innovation and Technology

10:30 Keynote

- The current state of cyber security in Hungary - Prof. Dr. Zoltán Rajnai, Cyber Coordinator

11:00 Overall state and picture of cybersecurity (Panel Discussion)

- State of legal regulation, situation assessment, preparation for future challenges, EU outlook, Cyber Security & GDPR, Cybercrime and the Hungarian Penal Code
- Moderator: Mary Alcantara, MKB Fintechlab
- Panellists: Zoltán Rajnai cyber coordinator; Dr. Balázs Bencsik NKI leader; István Dani, Head of Development Operations Supporting IT Security, NISZ Zrt.; Dr. Attila Kiss, Head of Department, NAIH

12:15 Everyone is (or could be) a hacker (Presentation)

- How to produce intelligence from publicly available information. Presentation of OSINT the fastest growing area of IT Security – Márton Miklós, CEO, ACPM IT Ltd.

12:35 Fintech innovation in Hungary (Presentation)

- How prepared are you for PSD2? Fintech innovation in Hungary experience and best practices. - János Perczes, Managing Director, MKB Fintechlab

13:05 Phishing 2.0 demonstration (Presentation)

- Phishing attacks have evolved to a new level. The usual “Do not click on any ‘suspicious’ links” advice is not nearly enough to counter the newer versions of this well-known threat. Presentation of how user session token stealing works and what are the effective countermeasures are. - István Tóth, IT Security Expert, ACPM IT Ltd

13:35 How to transform the weakest link to the biggest asset of cyber security? (Presentation)

- As 95% of cybersecurity breaches are tied to human error, experts say, the human is the weakest link in cybersecurity. But we at Cyex believe that human can be the biggest asset. As professionals, we learnt that high-tech solutions alone are good for nothing without an aware and prepared workforce. Organizations need new methods to scale up non-technical employees’ cybersecurity knowledge in our digital world. How? We are looking for answers in our presentation. – Dániel Váczi, CFO, Co-founder CYEX

14:05 – 15:00 Break

15:00 IT security education issues, Child protection (Panel discussion)

- Moderator: Mary Alcantara, MKB Fintechlab
- Panellists: Prof. Dr. Zoltán Rajnai, Cyber Coordinator; Dr. Miklós Kozlovszky, dean, Óbuda University, Ferenc Szani Infotér; Gergely Bíró, president, ISACA Hungary; Andrea Zengő, president, WITSEC (Women in IT Security); Dr. Szabolcs Kéring, expert, DJP

16:20 SIM Hijacking (Presentation)

- When your phone number becomes your greatest weakness – How can a vulnerability of 90's technology threatens the online economy and social media today. A case study of this little known but growing threat. – Márton Miklós, CEO, ACPM IT Ltd

16:45 Startups in IT Security (Presentation)

- How different is the road to success? Introducing the first dedicated cybersecurity incubator in the CEE region. – Gábor J. Illés, managing director, Oxo Cybersecurity Lab

17:10 What is Red Teaming and why do You need it? (Presentation)

- How Red Teaming works in real life and why corporations need this in their arsenal for cybersecurity defense. Presentation of a Red Teaming activity and it's benefits. - Csaba Erdei, IT Security Expert, Infotér Association

17:30 Cyber SOC (Demonstration) – Marcell Zábó, IT Security Expert, Andrews Engineering Ltd.

- SOC myths and facts: How does an open source SOC actually works

17:45 Red Team vs SOC “e-sport like” (Demonstration)

- The immovable object versus unstoppable force. Who wins? Let's find out! – Marcell Zábó, IT Security Expert, Andrews Engineering Ltd. and István Tóth, IT Security Expert, ACPM IT Ltd.

Moderator of the day: Mary Alcantara, MKB Fintechlab

DAY 3 – WEDNESDAY (11 SEPTEMBER 2019)

Global Collaboration, powered by INPUT



11:00 Startup Disruption in Corporate Innovation: Reality or Wishful Thinking? (Panel Discussion)

- Plenty of innovative ideas are born day by day in the startup ecosystem that could provide solutions for corporate environment's issues. The question remains as to whether the traditional corporate players are open enough for integrating these innovations coming from the unknown startup world. In this roundtable discussion the representatives both of the corporate and the startup world share their opinions, proposals and challenges on this topic.
- **Moderator:** Levente Hörömpöli-Tóth (Communications Lead at Artificial Intelligence Coalition Hungary)
- **Panellists:** Dr. Gergő Budai - (EA Director, Deputy Chairman at Vodafone Hungary) Gabriella Sódar - (Head of Technology Transfer Unit - Semmelweis University/Innovation Directorate), Reza Maulana - (President Director at PT. Digivla Indonesia), Valentina Araya Hernández - (Account Executive at Startup Chile), Szekeres Péter - (CEO and Co-Founder of Neticle)

12:00 Break / Meet the INPUT team at the Exhibitor space

13:30 INPUT Startup Competition (*Registration/Welcome ceremony*)

14:00 INPUT Startup Competition Final (Startup competition)

- UN Global Best Practise award winner INPUT Program is taking the great opportunity as one of the biggest professional international platforms at ITU Telecom World 2019 on its dedicated day (11th September) to organize the nationwide Startup Pitch Competition Final event. After the preliminary semi-final event from July 2019, 5 teams are going to have the opportunity to pitch their innovative solution, idea or technology at the Hungarian National Pavilion to a professional international jury and audience including influential figures from the government, corporate executives and innovation sector stakeholders from all over the world.
- **Moderator:** Dániel Vincz, Global Ambassador INPUT Program, Hungary
- **Jury members:** Bradley Mix, Senior Director at Innovation PEI, Canada; Thore Vestby, Chairman of Board at Ichi Foundation, China/Norway; Zsolt Katona, Chief Executive Officer at Solus Capital, Hungary; Sri Safitri, Project Director for Customer Experience Transformation at Telkom Indonesia, Indonesia, Günzweig Tamás, Head of Engineering at IBM BudapestLAB

15:35 A global network of innovators – collaborating and sharing best practises for a greater good (Presentation)

- Mohamed Ba, Head of Innovation Division, ITU; Dávid Maász, Member of the Board, INPUT Program

16:00 INPUT Startup Competition Announcement/Award Gala - By invitation only

Moderator of the day: Levente Hörömpöli-Tóth (AI Coalition) and Dániel Vincz (INPUT)

DAY 4 – 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.

AGORA SESSIONS

(Exhibition area, Hall G)

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 Dunaújváros*

- 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, *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 SESSIONS

(Innovation Space Stage 1, Exhibition area, Hall F)

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; Máttyás 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 PAVILION WORKSHOPS

(Exhibition area, Hall F)

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*

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

INNOVATION SPACE WORKSHOP

(Innovation Space Stage 2, Exhibition area, Hall F)

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, Exhibition area, Hall F)

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

(FORUM area, Room 4 – Helicopter)

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), Gosztónyi 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), to be announced

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

(FORUM area, Room 5 – Biro)

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