



INTERNATIONAL FORUM ON ADVANCED ICT RESEARCH AND INNOVATION

29.09-1.10.2025, Sofia Tech Park, Incubator, The Venue Hall, Sofia, Bulgaria

Programme¹

29.09.2025

10:00 – 17:30 Registration

10:00 – 10:30 Morning coffee

10:30 – 11:00 **Event Opening and Congratulatory Addresses**

Prof. Dr. Neli Koseva, Coordinator of the Investment C2.I2 “Increasing the innovation capacity of the Bulgarian Academy of Sciences in the field of green and digital technologies”, National Recovery and Sustainability Plan, Opening Speech

11:00 – 12:30 **Conference Session: Invited lectures**

Moderator: Stoyan Boev, Science and Innovation Council on Information and Communication Technologies

Stein-Arne Riis (Upkip, Norway), AI Energy Optimization Using Industry 4.0 Technologies

Dinko Rusev (Bosch, Germany), Are We Ready for the Future?

Prof. Dr. Dimiter Velez (University of National and World Economy, Bulgaria), Quantum Computing - The Next Frontier for Research and Innovation

12:30 – 14:00 Lunch break

¹ *The International Forum on Advanced ICT Research and Innovation* is organized by the Science and Innovation Council on Information and Communication Technologies, and Bulgarian Academy of Sciences under Investment C2.I2 “Increasing the innovation capacity of the Bulgarian Academy of Sciences in the field of green and digital technologies”, National Recovery and Resilience Plan



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14:00 – 15:00 Conference Session: Invited lectures

Moderator: Stoyan Boev, Science and Innovation Council on Information and Communication Technologies

Dr. Nektarios Moumoutzis (Technical University of Crete, Greece), Transforming Learning Environments through Digital Innovation

Prof. DSc. Peter Stanchev (Kettering University, USA), Building the Innovative and Entrepreneurial University

Discussion

15:00 – 16:00 Conference Session

Moderator: Mihail Iliev, Science and Innovation Council on Information and Communication Technologies

Detelin Luchev, Maxim Goynov, Innovative Software Platform for Serious Educational Games with Creative Visualization to Build Competence and Responsible Management of Natural Resources (ProNature)

Ivaylo Parvanov, A Novel Method for 3D Digitization and Analysis of Motor Cultural Practices

Discussion

16:00 – 16:30 Coffee break

16:30 – 17:30 Conference Session

Moderator: Mihail Iliev, Science and Innovation Council on Information and Communication Technologies

Todor Branzov, iPRO: Capturing the Patient's Voice

Denis Chikurtev, Modular Hybrid System for Eco-charging of Electric Vehicles

Discussion

18:00 – 20:00 Welcome cocktail

30.09.2025

10:30 – 16:30 Registration

10:30 – 11:00 Morning coffee

11:00 – 12:30 Conference Session

Moderator: Lubomir Stanislavov, Science and Innovation Council on Information and Communication Technologies

Yordan Marinov, Development of Photonic Sensor Effects at the Interface Solid Surface/Bionanocomposite for Detection and Control of Biogenic Impacts

Stoyan Poryazov, Ivan Ganchev, Advances in ‘PREDICATES’: Predicting the Quality of Service in Cyber-Physical-Social Systems

Ralitzha Geleva, Kiril Simov, Ivan Lirkov, The Bulgarian Online Encyclopedia Project. The Bulgarian Online Encyclopaedia: Reality and Future. The Systematized Scientific Knowledge about the World and Bulgaria are Going Online

Discussion

12:30 – 14:00 Lunch break

14:00 – 15:30 Conference Session: Invited lectures

Moderator: Prof. Dr. Kostadin Kostadinov, Science and Innovation Council on Information and Communication Technologies

Stela Tkatchova (European Innovation Council and SMEs Executive Agency -EISMEA, Belgium), EIC Space Portfolio and Opportunities for Synergies with Advanced ICT Research and Innovation Activities

Daniela Dobрева-Nielsen (Bogdan Orbit, Germany), Irina Gancheva (Wiser), Kalin Iliev (Wiser), Space Meets ICT: Driving Smart Solutions on Earth

Prof. Dr. Vassil Dimitrov (University of Calgary, Canada), Data Formats for Efficient Machine Learning Computations

Discussion

15:30 – 16:00 Coffee break

16:00 – 17:00 Conference Session

Moderator: Prof. Dr. Desislava Paneva-Marinova, Science and Innovation Council on Information and Communication Technologies

Dr. Shailesh Upreti (iM3NY & President, C4V LLC, USA), Digital DNA: From Molecules to Machines, Driving the Growth of New Energy in New Markets

Prof. Dr. Milena Stanislavova (University of Alabama at Birmingham, USA), Preparing Generation Z Students for the Modern Workforce in an Urban University with a World Class Academic Health System

Discussion

01.10.2025

10:00 – 16:00 Registration

*10:00 – 11:00 **Conference Session: Invited lectures***

Moderator: Prof. Dr. Dimiter Velev, Science and Innovation Council on Information and Communication Technologies

Prof. Dr. Kai Rannenberg (Goethe University Frankfurt, Germany), The European Cybersecurity Competence Center (ECCC) Pilot Exercise and the Future of Cybersecurity in Europe

Iliyana Madina (Fraunhofer Institute for Systems and Innovation Research ISI, Germany), Crowd-based Instruments, *e.g.* Crowdsourcing and Crowdfunding, for Open Innovation

11:00 – 11:30 Coffee break

*11:30 – 12:30 **Conference Session***

Moderator: Prof. Dr. Dimiter Velev, Science and Innovation Council on Information and Communication Technologies

Ivanka Tsakovska, Development of a Web-based Platform for in silico Assessment of Toxic Effects of Chemicals on Human Health and the Environment

Anika Alexandrova-Watanabe, Tihomir Tiankov, Development of a Pathologic Pregnancy Database for Retrieval of New Knowledge for Diagnostic Markers Identification

Discussion

12:30 – 14:00 Lunch break

*14:00 – 15:30 **Conference Session***

Moderator: Prof. Dr. Desislava Paneva-Marinova, Science and Innovation Council on Information and Communication Technologies

Dencho Spasov, Air Pollution Detection Sensor

Svetla Koeva, Infrastructure for Fine-tuning Pre-trained Large Language Models

Discussion

*15:30 – 16:00 **Closing Ceremony***

16:00 – 16:30 Coffee break