

## Agenda on Science and Technology Convergence Forum

Day I: 12 October 2018, Yerevan, the National Academy of Sciences

**09:00 - 10:00 REGISTRATION OF PARTICIPANTS**

**10:00 - 10:30**

- Arayik Harutyunyan, Minister of Education and Science
- Hakob Arshakyan, Minister of Transport, Communication and Information Technologies
- Gregory Tsouris, Deputy Head of Cooperation Section of the EU Delegation to Armenia
- Klaus Wendelberger, Deputy Head of Mission of the Federal Republic of Germany in Armenia
- Dr. Radik Martirosyan, President of the National Academy of Sciences

**10:30 - 10:35**

Sergey Abrahamyan, Institute for Informatics and Automation Problems (IIAP)  
*Overview of the Agenda and the results related to the previous conference STC2016, Introduction of the organizers*

**10:35 - 10:50**

Anahit Khachikyan, National Academy of Sciences of Armenia  
*H2020 SME Instrument and Enterprise Europe Network services in Armenia*

**10:50 - 11:00**

Ashot Arzumanyan, SmartGateVC  
*Deep tech entrepreneurship in Armenia: current state and prospects*

**11:00 - 11:15**

Mariam Davtyan, Enterprise Incubator Foundation (EIF)  
*Research and Education ecosystem support program of PMI R&D Center in Armenia*

**11:15 - 11:30**

**Coffee Break**

**1<sup>st</sup> Session: Quantum Computing**

**11:30 - 12:00**

Hratch Achadjian, Google  
*Quantum Computing trends in Business*

**12:00 - 12:20**

Hakob Avetisyan, Gate42  
*Current state of Quantum Computing*

**12:10 - 13:00**

**Round table discussion on Quantum Computing in Armenia** | Moderator Hrachya Astsatryan

**13:00 - 14:00**

**Lunch**



EU4Business



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	<b>2<sup>nd</sup> Session: Microelectronics (ML in EDA)   Moderator Vazgen Hakobjanyan</b>	<b>3<sup>rd</sup> Session: Artificial Intelligence   Moderator Adam Mathias Bittlingmayer</b>
<b>14:00 - 14:20</b>	Ruben Ghulghazaryan, Mentor Graphics <i>A Siemens Business</i>	Hrant Khachatryan, YerevaNN <i>From sentence parsing to biomedical relation extraction</i>
<b>14:20-14:40</b>	Jenya Sargsyan, Synopsys <i>Design rule violation predictor for detailed routing</i>	Habet Madoyan, American University of Armenia <i>Implications of choice-based models for marketing research and product development</i>
<b>14:40-15:00</b>	<b>Round Table: Establishment on Science2Business collaboration in ML in EDA   Moderator Vazgen Hakobjanyan</b> <i>Needs for future academic and industry research</i>	Arshak Minasyan, Zero <i>Adaptive importance sampling</i>
<b>15:00-15:20</b>		Narek Abroyan, National Polytechnic University of Armenia <i>Using hybrid discriminative-generative models for binary classification</i>
<b>15:20-15:40</b>		Tsolak Ghukasyan, Russian-Armenian University <i>Intelligent Analysis of Armenian Texts: Named Entity Recognition and Classification</i>
<b>15:40-16:00</b>		Ashot Martirosyan, FimeTech <i>Distilling the knowledge in a Neural Network</i>
<b>16:00-16:20</b>		<b>Coffee Break</b>
<b>16:20 - 16:40</b>		Kristina Sargsyan, French University of Armenia <i>Knowledge model of the Decision support systems for evaluating science-intensive Projects</i>
<b>16:40-17:00</b>		Antranig Momjian, National Polytechnic University of Armenia
<b>FROM 19:30</b>		<b>Conference Dinner</b> (By Invitation Only)

## Day II: 13 October 2018, Yerevan, National Academy of Sciences

### 09:00 - 10:00 REGISTRATION OF PARTICIPANTS AND WELCOME COFFEE

	<b>3<sup>rd</sup> Session - Artificial Intelligence (Part 2)</b>   Moderator Adam Mathias Bittlingmayer	<b>5<sup>th</sup> Session: Renewable Energy</b>   Moderator Astghine Pasoyan
<b>10:00 - 10:20</b>	Karen Mkhitarian, Institute for Informatics and Automation Problems (IIAP) <i>Applications of Community Detection</i>	<b>Opening and welcome speech</b> Hakob Vardanyan, Deputy minister of Energy Infrastructures and Natural Resources
<b>10:20 - 10:40</b>	Davit Avoyan, PicsArt <i>AI for Creativity</i>	Hayk Chobanyan, Freenergy <i>The use of Information Technology in Solar Energy from the business perspectives</i>
<b>10:40 - 11:00</b>	Ara Ghazaryan, Develandoo <i>Intelligent augmentation for security, surveillance and defense systems</i>	Vahe Sharafyan, Soloron <i>Information Technology Issues in Solar Energy</i>
<b>11:00 - 11:20</b>	Hovakim Grabski, Russian-Armenian University <i>Cryptic binding site of quorum sensing receptor of multidrug resistant Pseudomonas aeruginosa: Potential inhibitors against formation of bacterial colonies</i>	Vahan Sargsyan, Energetic Strategic Center <i>The Structure of the Power System of Armenia</i>
<b>11:20 - 11:40</b>	Liana Andreasyan, NPUA <i>Data classification metrics in the preventive medical decisions making support system</i>	Zhosef Panosyan, Heliofication Laboratory of National Polytechnic University of Armenia <i>The Use of the Scientific Research in the Renewable Energy: Success Story; Q&amp;A</i>
<b>11:40 - 12:00</b>		<b>Coffee Break</b>
	<b>4<sup>th</sup> Session: CyberSecurity</b>   Moderator Samvel Martirosyan	
<b>12:00 - 12:20</b>	Aram Jivanyan, SkyCryptor <i>Zero-Knowledge Proofs and Secure Multiparty Computation for Blockchain</i>	Harutyun Dashtoyan, <i>Fabrication and investigation of perovskites thin films for oxygen evolution reaction</i>
<b>12:20 - 12:40</b>	Antranig Vardanyan, Illuria Security <i>Honeypots, IDS and orchestration</i>	



<b>12:40 - 13:00</b>	Arthur Hakobyan, Apolobytes <i>Blockchain in Enterprise Asset Management Systems</i>	<b>Round Table Discussion - Establishment on Science2Business collaboration in Renewable Energy sphere</b>   Moderator Tamara Babayan
<b>13:00 - 13:15</b>	Vaagn Toukharian, Qualys <i>Science in Infosec</i>	
<b>13:15 - 13:30</b>	Vazgen Manukyan, Publiq <i>Anonymous blockchain transactions</i>	
<b>13:30 - 14:30</b>		<b>Lunch</b>
	<b>6<sup>th</sup> Session: Computer Vision</b>   Moderator Armen Petrosyan	
<b>14:30 - 14:50</b>	Abel Ghazinyan, Arloopa <i>Natural Feature Based Tracking and 3D pose estimation for Augmented Reality</i>	
<b>14:50 - 15:10</b>	David Asatryan, Institute for Informatics and Automation Problems (IIAP) <i>Applications of methods for objects features detection using video filming</i>	
<b>15:10 - 15:30</b>	Aghasi Poghosyan, Institute for Informatics and Automation Problems (IIAP) <i>Image caption generation based on object detector</i>	
<b>15:30 - 15:50</b>	Naira Asatryan, Institute for Informatics and Automation Problems (IIAP) <i>Procedure and software tools for protection and recovery of tampered images</i>	
<b>15:15 - 16:10</b>	David Asatryan, Institute for Informatics and Automation Problems <i>Application of methods for structural analyses of images</i>	
<b>16:00</b>		<b>Closing Session</b>