



# CONFERENCE PROCEEDINGS

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**2022 IEEE 16<sup>th</sup> International Conference on Application of Information and Communication Technologies (AICT)**

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57 Morehouse Lane

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+1 845 758 0400

+1 845 758 2633 (FAX)

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# AICT2022 Conference Opening Speech

Dr. Abzetsk Z. Adamov  
AICT2022 Conference General Chair  
aadamov@ieee.org



**Honorable distinguished speakers, conference participants!**

**Ladies and gentlemen,**

On behalf of Organizing and Steering Committees, it's my great pleasure and privilege to welcome you to the 16<sup>th</sup> IEEE International Conference on Application of Information and Communication Technologies.

After two years of the conference taking place online we return back almost to normal with this conference held in Hybrid format. Hope it'll be good experience and we'll have next conference fully in-person. As always, safety and well-being of all conference participants is our top priority.

Before returning the floor back to conference Program Chair Prof. Kaisler, I will take this opportunity to make some general remarks and touch briefly on the history of the AICT Conference.

AICT International Conference is held first time in Azerbaijan in 2003 and since there it has been continued in regional countries with support of local universities, official institutions and industries. Throughout 16 years of history, AICT received more than 4000 submissions of research papers from about 6000 co-authors. About 1400 authors from more than 70 countries have joined the conference. This year we have 23 countries represented at the AICT2022 in-person or virtually.

It is fourteen time the AICT conference is organized under technical support of the Institute of Electrical and Electronics Engineers abbreviated as "IEEE". IEEE is the world's largest professional association for the advancement of technology with 130 years history headquartered in US with

more than 400,000 members in 160 countries. Through its global membership, IEEE is a leading authority on areas ranging from aerospace systems to computer science, from telecommunications to biomedical engineering, from electric power to consumer electronics. IEEE produces over 30% of the world's literature in the electrical and electronics engineering and computer science fields, publishing well over 100 peer-reviewed journals and magazines; it also sponsors over 1800 conferences annually, including this conference.

We express our deep gratitude to all co-organizers: ADA University, School of Engineering and Applied Science (George Washington University), Politecnico di Torino. We highly appreciate the dedicated work of the organizing committee consisting of faculty and staff of co-organizing institutions, especially Dean Lach's team and staff of Washington Center of ADA University for all logistical support. All worked together and extremely hard for a goal to prepare an outstanding conference. As a result, we have prepared number of Keynote and Technical Sessions to discuss the Challenges, Opportunities and Problems of Application of ICT in various fields.

We express sincere gratitude to our International Peer-Review team who volunteered and allocated big chunk of their vacation time to review papers, their contribution is invaluable. Many thanks to you our authors for your excellent contribution through submitting your papers to conference. Many thanks to our Volunteers – bright students 2<sup>nd</sup> cohort of dual degree graduate program in Computer Science and Data Analytics jointly offered by GWU and ADA University.

The objective of the three days Conference is to learn and share knowledge among all and those who have rich experience and expertise in relevant areas of science and technology. The AICT2020 International Conference is a forum to bring together business people, researchers, scientists, software architects, and industry professionals to discuss innovative ideas and diverse topics on next generation of information technologies and application.

While concluding, I take the opportunity to welcome each one of you and express our gratitude in your agreeing to participate in this 16<sup>th</sup> AICT conference. We hope you return next year with even more colleagues for the AICT2023, which, we hope very much will be held in traditional Face-2-Face format. Enjoy your participation in the AICT2022. Thank you. Have a wonderful conference days.

# AICT2022 Conference Opening Speech

Prof. John Lach,  
Dean, School of Engineering and Applied Science,  
George Washington University, US



Good morning (or afternoon, evening, or middle of the night to those joining us online), and welcome to Science & Engineering Hall at The George Washington University School of Engineering and Applied Science. We're honored to co-host the 16th International Conference on Application of Information and Communication Technologies here at GW, in the heart of Washington DC. We're particularly excited to co-host this prestigious conference with our valued partners at ADA University (a quick shout-out to my ADA counterpart Sencer Yeralan), as well as Politecnico di Torino and the IEEE Azerbaijan Joint Chapter. And of course we are extremely grateful to the IEEE for their support.

I'd like to tell you a little bit about GW and our Engineering School, which will help highlight why we're so excited to be hosting this conference. GW is a global, comprehensive, research university with 10 schools and colleges ranging from our Schools of Medicine and Public Health to our top-ranked Schools of Law and International Affairs, all right here in Foggy Bottom, Washington DC. Altogether, we have about 26,000 students, including about 10,000 undergraduate students. We're just a few blocks from the White House and the U.S. State Department, and we're a short metro ride away from the National Science Foundation, the National Institutes of Health, the National Institute of Standards and Technology, and countless other government agencies, national labs, and companies, including a rapidly growing technology corridor. In essence, we are at the hub of where information and communication technologies

are developed and where applications of those technologies are envisioned, funded, legislated, and implemented. So this conference is a perfect fit for us, and I'm thrilled to co-host it and to have several GW Engineering faculty and students presenting the groundbreaking research that we do here.

Whenever I introduce our school to others, I always want to emphasize that one of the great strengths of our engineering school is our diversity. A few weeks ago, we welcomed our 1<sup>st</sup> Year undergraduate class, which is 46% female (that is about double the national average for undergraduate engineering), 30% underrepresented minorities, and 17% 1<sup>st</sup> generation college students. A recent national report ranked us #1 for the total number of Doctoral degrees awarded to underrepresented minorities. 55% of the tenure-track engineering faculty we've hired over the past three years are women. That diversity and our school's commitment to equity and fostering a culture of inclusion is core to our belief that diversity of thought, identity, and lived experience is critical to innovation and to solving society's most challenging problems. As such, we are thrilled to be working with partners across the globe, not only on this conference but also on several other educational programs and research collaborations. Together, we can develop applications of information and communication technologies that will make the world a better place.

Thank you so much for joining us here at The George Washington University, and I wish you all the best for a very successful conference.