

ITUFORUM

1st Forum on Artificial Intelligence and Internet of Things in Smart Sustainable Cities in Latin America

29-30 May 2018
Buenos Aires, Argentina

Co-organizers



Host and co-organizer



Ministerio de Modernización
República Argentina

Organizer



The Buenos Aires Declaration 30 May 2018

Artificial Intelligence and the Internet of Things in Smart Sustainable Cities in Latin America

The First Forum on Artificial Intelligence and the Internet of Things in Smart Sustainable Cities in Latin America, which was held from May 29 to 30, 2018 in Buenos Aires, Argentina has:

1. **Acknowledged** the transformative potential of artificial intelligence (AI) and the Internet of Things (IoT) in revolutionizing the traditional urban infrastructures in Latin America. The combination of high-speed, resilient, low-latency connectivity and distributed computing, machine and deep learning as well as big data analysis is enabling the transformation towards smarter and more sustainable cities.
2. **Recognized** that rapid urbanization has imposed different challenges on Latin America including poverty, social inequality, limited housing, vulnerability to climate disasters, traffic congestion, and water and sanitation problems. With a staggering 80% of its 650 million population living in urban cities, Latin America must develop and adopt innovative policies and regulatory frameworks that leverage the potential of AI and IoT in fostering inclusive and sustainable economic growth in line with international human rights standards.

3. **Emphasized** that by optimizing productivity and resource usage using real time data collected from smart products and sensors, AI and IoT driven solutions and applications offer significant improvement to the value and supply chains across different industries. It has also acknowledged that industry 4.0, which is characterized by digitization, connectivity and automation using big data empowered AI within the manufacturing industry, is vital in transforming the traditional linear production and consumption pattern into a closed loop, circular pattern in which efficiency and values are maximized across all stages of a product life cycle.
4. **Underscored** the importance of ethics for big data and analytics. The lack of regulation in data collection and ownership mean that it is often up to the data collectors to determine the volumes and types of data that is being collected, making it their responsibilities to decide how to utilize those data. A trusting relationship must exist between data collectors and citizens in order to implement any AI and IoT applications. Consensus, accountability, inclusiveness and transparency are at the center of developing an ethical framework that can build and sustain a trusting relationship.
5. **Reiterated** the need to implement international standards such as ITU-T Recommendations to ensure interoperability of IoT applications, services and platforms. By establishing a common framework and a set of accepted terminology, different IoT developers and producers can operate within the same ecosystem and scale up the production values of their products while advancing the global sustainable development agenda. It has also been recognized that the development of international standards and a global regulatory framework on IoT is critical in tackling IoT-specific security threats and addressing societal concerns linked to IoT such as privacy, trust, and freedom of expression.
6. **Reaffirmed** the participants' commitment to the 2030 Agenda, in particular to the following Sustainable Development Goals: SDG 8 'Decent work and economic growth', SDG 9 'Industry, Innovation and Infrastructure' and SDG 11 'Sustainable Cities and Communities'; as well as the priority and theme of Argentina's G20 leadership in 2018 which is to build consensus for fair and sustainable development with a people-centred vision; the United for Smart Sustainable Cities (U4SSC) as the global platform to advocate for public policy that encourages the use of ICTs to shape smart sustainable cities and the Digital Agenda for Latin America and the Caribbean (eLAC2020) as the multi-stakeholder dialogue to foster the potential of the digital ecosystem to promote the sustainable development of the region.

Therefore, we the participants of the First Forum on Artificial Intelligence and the Internet of Things in Smart Sustainable Cities in Latin America declare a Call to Action including:

1. **Raising awareness of the role of AI and IoT in Smart City development:** Citizens must be made aware of the potential of AI and IoT in transforming the city they live in. Once a common understanding on the functionality and nature of AI has been established, citizens would be more likely to develop a reciprocal attitude towards AI solutions. Therefore, awareness campaigns must be incorporated into smart city program and city planning. The AI revolution will not stop. There is a clear sense of urgency to instill practical policies as well as ethical and

best practices that would foster inclusive and sustainable economic growth. Citizens must be at the center of it all.

2. **Revamping public policies to prepare for an AI future:** Update the education curriculum to refocus skills sets on AI under the umbrella of media and information literacy in preparation of the next generation of workers for AI adoption. It is vital that students, workers, policymakers, and among other relevant smart city stakeholders to evolve in their respective role in order to adapt to and reap the benefits of emerging AI technologies. It is equally important to raise awareness on the ethics of data collecting which is vital in fostering a trusting relationship between AI application and citizens.
3. **Promoting the production and supply of:** Smart devices, software, applications and services and infrastructure as well as the adoption of AI technology to develop smart cities according to local needs. These are common IoTs items that would enable optimized productivity in the daily life of local citizens.
4. **To Encourage public-private collaboration and partnership:** Enhance cooperation at international, regional, and national level, between organizations, research institutes, academics, local governments, small and medium enterprises, standardization bodies, on disseminating knowledge and best practices on AI usage and policies.
5. **Leveraging the potential of AI in securing the Internet of Things:** Introduce AI elements into the design of IoTs to enhance security. By using different algorithms to parse and analyze data, machine learning empowers AI to become capable of learning and detecting patterns that would help in identifying and preventing malicious acts within the cybersecurity space, making it the catalyst of safeguarding privacy in the cybersecurity landscape of the IoTs and building a trusting relationship among relevant stakeholders.
6. **Building a Smart City Platform (SCP) where best practices and vital data can be shared, and milestones can be established:** This open platform should be an integral part of a smart city strategy in which different sectors and their respective development plans are connected and harmonized. Citizens must be involved from the beginning to bring transparency and accountability to the platform. Establish small goals and milestone to build momentum, ensuring incremental progress would take place.
7. **Incorporating AI solutions into public services:** AI solutions and applications have the potential to improve the efficiency of public services by thousand-folds. There are software and AI tools exist today that utilize voice command to function and capable of reviewing and recording thousands of documents in a short period of time while detecting patterns that would help in deriving the optimal solutions to a wide-array of social problem. This is particularly useful in improving the work of prosecutors and law enforcement agencies where the number of paperwork is high along with a high volume of vital information needs to be processed every day.

Additional information on The First Forum on Artificial Intelligence and the Internet of Things in Smart Sustainable Cities in Latin America can be found at: <https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180530/Pages/default.aspx>
