ITU Events

AL for Good

Accelerating the United Nations Sustainable Development Goals ALL YEAR ALWAYS **ON**LINE





Al for Good | ITU – Committed to connecting the world

193 MEMBER STATES

+900

PRIVATE SECTOR ORGANIZATIONS

+150

ACADEMIA MEMBERS **3** Sectors



ITU Radiocommunication (ITU-R) Coordinating radio-frequency spectrum and assigning orbital slots for satellites



ITU Standardization (ITU-T)

Establishing global standards



ITU Development (ITU-D) Bridging the digital divide





THE leading action-oriented, global & inclusive United Nations platform on Al

All YEAR, ALWAYS ONLINE







40 UN Orgs



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Al can help solve humanity's greatest challenges



How do we know what problems to work on?





Accelerating UN SDGs

17 Goals and 169 targets creating the blueprint to achieve a more sustainable future for all by 2030

Adopted by all United Nations Member States







Identify Practical applications of Al



Solutions for global impact



Accelerate Progress towards the UN SDGs



Al for Good | 40 UN Organizations











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"This is a truly amazing and original platform that doesn't yet exist. You may want to think about copyrighting it."

Philippe Jegou - AWS, UN Account Manager









Learn











Build





A: 🐯 Focus Groups





Connect







ITU-T standards community



Study Groups

Membership-driven Study Groups develop international standards.



Focus Groups

Open to all interested parties, Focus Groups define new directions in ITU standardization.



Workshops and symposia

Open-to-all events analyze emerging trends and encourage peer-learning





How we work

SG2 - Operational aspects **SG3** - Economic & policy issues

SG5 - Environment, EMF & circular economy
SG9 - Broadband cable & TV
SG11 - Protocols, testing & combating counterfeiting
SG12 - Performance, QoS & QoE

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SG15 - Transport, access & home
SG16 - Multimedia & digital technologies
SG17 - Security
SG20 - IoT, smart cities & communities





ITU standardization: Technical foundations



Transport, access and home networks



Cybersecurity



Multimedia



Service

quality

Internet Environmental of Things efficiency



Numbering & emergency comms



Quantum information tech



Artificial









Study Groups

AI and ML standards/Recommendations



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AID

Al for Good

Network orchestration and management - ML5G toolkit

- Companies in the networking business are introducing AI/ ML as part of their innovations to optimize network operations and increase energy and cost efficiency.
- ITU standards for AI/ML provide a toolkit for AI/ML integration in 5G and future networks as AI/ML capabilities and networks evolve.



Al for Good

The toolkit

• Y.3172 architecture

- Y.3173 intelligence evaluation
- Y.3174 data handling
- Y.3176 ML marketplace integration
- Y.3179 ML model serving
- Y.3181 ML sandboxes



These standards are based on the pre-standardization work undertaken by our Focus Group on machine learning for 5G and future networks.





Case study-1: ML5G standards (the output) [2018-2020]

- An open, collaborative study, driven by contributions from around the world
- Analysed more than 30 use cases
- Requirements classified as "critical", "expected", "added value".
- Architecture Framework provides a common language for managed ML in networks



ITU-T Y.3172



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ITU-T Y.3172, "Architectural framework for machine learning in future networks including IMT-2020"





Build-a-thon PoC is a coding competition with **100+ participants since 2020**





Multimedia

Our standardization expert group for multimedia, ITU-T Study Group 16, includes a working group dedicated to "Al-enabled multimedia applications" (Q5/16).

- 13 standards approved
- 54 new standards currently under development







Service quality assessment

Al/ML is widely used in developing models to assess the quality of speech, audio and video, for example in ITU standards for the quality assessment of audiovisual streaming, in particular:

- Progressive-download and adaptive-bitrate AV (P.1203)
- Video streaming services up to 4K (P.1204)





Service quality assessment

ITU standards also address:

- Intelligent network analytics and diagnostics (E.475)
- Creation and performance testing of MLbased models to assess the impact of the transmission network on speech quality for 4G voice services (P.565).





Service quality assessment

The lessons learnt developing ITU P.1203, P.1204, E.475 and P.565 have informed the development of an ITU standard and supplement:

- Guidance for the development of machine-learningbased solutions for QoS/QoE prediction and network performance management in telecommunication scenarios (P.1402)
 - Considerations for the development of new QoS/QoErelated objective models to be embedded in standards prepared by ITU-T Study Group 12 (P.Sup28).





Energy efficiency

An ITU standard specifies a data centre infrastructure management (DCIM) system based on big data and AI technology (ITU L.1305), supporting DCIM systems in reducing the energy required to control data centre temperature.





An ITU standard provides the framework for a premium cable network platform to support industry in offering advanced multimedia services (ITU J.1600).





Cable networks

In addition to J.1600, this new series of ITU standards on AI assisted cable networks includes:

- Functional requirements for a smart home gateway (J.1611)
- Architecture for a smart home gateway (J.1612)
- Functional requirements of E2E network platforms to enhance the delivery of cloud-VR services over integrated broadband cable networks (J.1631)





Al is one of the five characteristics of a new ITU framework to support smart service operation, network management and infrastructure maintenance (M.3041).





New ITU standards in this domain address:

- Al enhanced telecom operation and management (M.3080)
- Energy saving for 5G Radio Access Networks with AI (M.3381)
- Work order processing (M.3382) and log analysis in telecom management with AI (M.3382)
 - Intelligence levels (M.3384) and their evaluation (M.3385) in Ai enhanced telecom operation and management
- Robot-based smart patrols of telecoms networks (M.3367)





Working together vs. in silos to solve issues in AI Building blocks to need to be solved to achieve AI for scale for all

- Data sharing
- Ethics and bias
- Best practices

- Safety and security
- Measurement, benchmarking
- Gap analysis and landscape









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Geoffrey Hinton Advisor for the Learning in Machines & Brains Canadian Institute for Advanced Research Turing Award Recipient *remote

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Abeba Birhane Senior Fellow in Trustworthy AI, Time 100 AI **Mozilla Foundation** in @ W ¥



Sam Altman CEO OpenAl *remote @ W



Daron Acemoglu Institute Professor Massachusetts Institute of Technology (MIT) New York Times bestseller of 'Why Nations Fail: Power, Prosperity, and Poverty'

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HRH Princess Beatrice United Kingdom

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Stuart Russell Professor of Computer Science at University of California, Berkeley, Author 'Human Compatible: Artificial Intelligence and the Problem of Control' **UC-Berkeley** in



Pelonomi Moiloa CEO, Time 100 AI Lelapa Al in



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Al for Good Website

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