

## Mobile Learning Week 2019

### Provisional Programme



AI has risen to the forefront of public discourse in recent years. The breakthrough in AI is on an accelerated development path, and has been further propelled by innovations in other frontier technologies, including cloud computing, big data, Internet of Things, and virtual reality. As a convergence of a widening spectrum of frontier technologies, AI has garnered the potential to bring new possibilities for global development and societal change.

The transformative power of AI crosses all economic and social sectors, including the education sector. In particular, AI has the potential to accelerate the process of achieving SDG 4. It promises to reduce barriers to access education, automate management processes, analyse learning patterns and optimise learning processes with a view to improving learning outcomes. However, the penetration of AI in education comes with concerns about ethics, security and human rights. Without policy intervention, the commercial deployment of AI will also exacerbate digital divides and deepen existing income and learning inequalities, as marginalised and disadvantaged groups are more likely to be excluded from AI-powered education.

The rapid growth in AI technologies will also significantly impact the skills required by different sectors. Already today, there is a major skills gap in the labour market when it comes to AI-related jobs and skills. Educational institutions and training providers will need to address these skills gaps to ensure that future graduates will meet the requirements of the job market and enable an AI-literate citizenry.

**'Education will be profoundly transformed by AI. Teaching tools, ways of learning, access to knowledge, and teacher training will be revolutionized'.**

Audrey Azoulay  
Director-General of UNESCO

As frontier technologies, AI processors and AI applications become the new norm for smartphones and other mobile devices, mobile learning is entering a new epoch. At the dawn of the next generation of mobile learning, AI-augmented mobile learning - Intelligent Mobile Learning - has arrived, but its key potentials remain to be explored and unleashed. There is a strong need for a holistic review of its implications for equity and inclusion in education, efficiency of education management, quality of learning, and skills development.

To maximize AI's benefits and mitigate its potential risks, system-wide planning and collective actions to reinvent the core foundation of education and learning are required. The rapid deployment of AI in education tests the readiness of stakeholders to harness AI, posing new challenges pertinent to all areas of education and learning, such as policy planning, curriculum and resources development, teacher education, and skills development.

Mobile Learning Week is a United Nations flagship ICT in education event. UNESCO, in partnership with its confirmed partners – the International Telecommunication Union, the ProFuturo Foundation and SkilloGS – will convene a special edition of Mobile Learning Week (MLW) from 4 to 8 March 2019, at the UNESCO Headquarters building in Paris (France).

The five-day event, under the theme 'Artificial Intelligence for Sustainable development' will start with the 'Global Conference - Principles for AI: Towards a humanistic approach?', followed by a one-day Policy Forum and Workshops, a two-day International Symposium and a half-day of Strategy Labs.

On 8 March, towards the close of MLW, participants will be invited to join the celebration of International Women's Day, particularly a debate on Women in AI to be held in UNESCO Headquarters. During the entire week, exhibitions and demonstrations of innovative AI applications for education and more than 20 workshops will be organized by international partners and all programme sectors of UNESCO.



***The partners of Mobile Learning Week 2019***



Monday, 4 March 2019

**GLOBAL CONFERENCE - PRINCIPLES FOR AI: TOWARDS A HUMANISTIC APPROACH?**

*The overall purpose of this conference is to raise awareness and promote reflection on the opportunities and challenges that AI and its technologies pose, especially with regard to transparency and accountability. The conference will also explore the potential of AI in relation to the SDGs. For this purpose, UNESCO intends to act as a convener among Member States, civil society, media, the technical community, academia, and the cultural and creative industries, building on its record of multi-stakeholder consultation and consensus building. Through this conference, UNESCO seeks to further facilitate dialogue between participants who represent a variety of stakeholders from around the world on the potential benefits and challenges of AI and its applications, particularly in the areas related to education, the sciences, culture, and access to information, with a specific focus on gender equality and Africa. Discussions will focus on the universal aspects of AI, its ethical dimensions, and ways to ensure human-centered development and design in AI applications.*

<b>08:00 – 09:00</b>	<b>Registration</b>	
<b>10:00 – 10:30</b>	<b>Opening session: Speech by UNESCO DG and special guests</b>	
<b>10:30 – 11:00</b>	<b>Keynote 1, with moderator</b>	
<b>11:00 – 12:30</b>	<b>Plenary session 1: Opportunities, challenges and universality of AI</b>  <i>This session will mobilize heads of state, leaders from the private sector, civil society and youth. It will examine the major implications of AI for sustainable development, as well as the potential and challenges of its deployment in service of Agenda 2030. It will also explore ways in which AI can be used to reduce inequalities, including the digital divide and discrimination. The session will allow for an exchange of views between different geographical, sectoral and generational groups. The session will also aim to establish a global state of play of AI.</i>	Room 1
<b>12:30 – 14:00</b>	<b>Lunch</b>	
<b>14:00 – 14:30</b>	<b>Keynote 2, with moderator</b>	
<b>14:30 – 16:00</b>	<b>Plenary session 2: What steps towards a humanistic approach of AI?</b>  <i>This session will explore the ethical dimensions of Artificial Intelligence. It will provide an overview of the current, immediate and potential ethical challenges raised by AI in the domains of UNESCO's mandate. It will also provide a reflection on different alternatives for establishing ethical frameworks and normative standards related to AI. Speakers include high-level experts, academics, philosophers, government legislators, and international standard setting bodies.</i>	Room 1
<b>16:00 – 16:30</b>	<b>Coffee break</b>	
<b>16:30 – 17:00</b>	<b>Keynote 3, with moderator</b>	
<b>17:00 – 18:30</b>	<b>Plenary session 3: A multilateral approach to address challenges in the development of AI</b>  <i>This session will bring together International and multilateral organizations and regional bodies, partners that have developed strategies for AI, therefore leading efforts on the international coordination for AI. The discussion will focus on challenges and opportunities in the development of public policies for AI, as well as ways to coordinate actions related to AI on a global scale. The plenary session will be moderated by a member of the Secretary General's High-level Panel on Digital Cooperation.</i>	Room 1
<b>18:30 – 19:00</b>	<b>Closing remarks</b>	
<b>19:00 – 21:00</b>	<b>Cocktail</b>	

Day 2 – Tuesday, 5 March 2019

## POLICY FORUM and WORKSHOPS

The Policy Forum will offer a platform to discuss the different pathways that governments are using to harness AI and ensure that it does not deepen the existing inequalities in AI-powered education. A number of Ministers of Education and ICT from various countries will be invited jointly by UNESCO and ITU.

The Workshops, selected through a call for proposals, will facilitate demonstrations of innovative policies, research, projects and solutions that use AI tools and frontier technologies for education and learning. The Workshop presenters are to be chosen from a wide range of international organizations, NGOs, governmental agencies and academic institutions.

Following up on the Global Conference, the Communication and Information Sector (CI), Science Sector (SC), Culture Sector (CL) and Social and Human Sciences Sector (SHS) will organize workshops on the implications of AI in the key mandatory areas of UNESCO.

## POLICY FORUM

08:30 – 09:00	<b>Registration</b>	
09:00 – 09:30	<b>Welcome and Introduction</b> <ul style="list-style-type: none"> <li>Ms Stefania Giannini , Assistant Director-General for Education, UNESCO</li> <li>Mr Kemal Huseinovic, Chief of the Infrastructure, Enabling Environment and E-Applications Department/BDT, ITU</li> <li>Mr Cesar Alierta, Chairman of Telefónica and ProFuturo Foundation, Spain</li> </ul>	Room 4
09:30 – 09:50	<b>Keynote speech</b> <b>AI and new horizons for education</b> Mr Teemu Roos, Associate Professor, Department of Computer Science, University of Helsinki, Finland	
09:50-10:15	<b>Presentation</b> <b>Education policy and the challenges of Artificial Intelligence: Does anyone know the way ahead?</b> <ul style="list-style-type: none"> <li>Mr Francesc Pedro, Chief, Section of Education Policy, UNESCO</li> <li>Ms Paula Valverde Revuelta, Head of Product and Innovation, ProFuturo Foundation</li> </ul>	
10:15-11:30	<b>SESSION 1</b> <b>What policies are needed to harness AI to accelerate progress towards SDG 4?</b> Moderator: Mr Borhene Chakroun, Director, Division for Policies and Lifelong Learning Systems, UNESCO <ul style="list-style-type: none"> <li>Ms Marya Gabriel, European Commissioner for Digital Economy and Society, European Commission (video connection)</li> <li>H.E. Mr Sabri Saidam, Minister of Education and Higher Education, Palestine</li> <li>H.E. Mr Yerlan Sagadiyev, Minister of Education and Science, Kazakhstan</li> <li>Mr Claudio Cimelli, Director of Digital Education, Ministry of National Education and Youth, France</li> <li>Ms Rose Luckin, Professor, Learner Centered Design at UCL Knowledge Lab, United Kingdom</li> </ul>	
11:30 – 11:45	<b>Coffee break</b>	
11:45 – 13:15	<b>SESSION 2</b> <b>What policies are needed to ensure frontier technologies and AI can support digital transformation, e-learning and digital skills development?</b> Moderator: Mr Jonathan Vesey, Market Engagement Director, Connected Society, GSMA <ul style="list-style-type: none"> <li>H.E Ms Wanda Buk, Undersecretary of State, Ministry of Digital Affairs, Poland</li> <li>H.E. Ms Ursula Owusu-Ekuful, Minister of Communications, Ghana</li> <li>Ms Tracy Burns, Senior Analyst, OECD</li> </ul>	Room 4

	<ul style="list-style-type: none"> <li>• Mr Ivan Ostrowicz, CEO, Domoscio, France</li> <li>• Mr Mick Levy, Director of Innovation, Business and Decision Services, Orange Group</li> </ul>	
<b>13:15 – 14:30</b>	<b>Lunch break</b>	
<b>14:30 – 16:00</b>	<p><b>SESSION 3</b></p> <p><b>What policies are needed to ensure inclusiveness in the use of accessible ICTs and AI in education?</b></p> <p>Moderator: Ms Roxana Widmer-Iliescu, Senior Programme Officer, Digital Inclusion Division, ITU/BDT</p> <ul style="list-style-type: none"> <li>• H.E Ms Maria-Manuela Catrina, Secretary of State, Ministry of Communications and Information Society, Romania</li> <li>• Mr Javier Elguea, Director of Education, Carlos Slim Foundation</li> <li>• Mr Axel Rivas, Director of the School of Education at the University of San Andrés, Argentina</li> <li>• Mr Miguel Ángel Valero, Director of Ceapat Imsero, Spain</li> <li>• Ms Placencia Porrero, Senior Expert of the Disability and Inclusion Unit, European Commission</li> <li>• Mr Anthony Salcito, Vice-President of Worldwide Education, Microsoft</li> </ul>	<i>Room 4</i>
<b>16:00 – 16:15</b>	<b>Coffee break</b>	
<b>16:15 – 17:45</b>	<p><b>SESSION 4</b></p> <p><b>What policies are needed to empower and prepare teachers for AI-powered learning environments?</b></p> <p>Moderator: Mr Tao Zhan, Director, UNESCO Institute for Information Technologies in Education</p> <ul style="list-style-type: none"> <li>• Mr Adrian Lim, Director, Digital Participation and Foresight Division, Digital Readiness Cluster, IMDA, Singapore</li> <li>• Mr Wayne Holmes, Assistant Professor, openAIED, UK</li> <li>• Mr Nathanael Gossaye, Co-Founder/CEO LangBot, Ethiopia</li> <li>• Mr Andrew Smith Lewis, CEO of CEREGO, United States</li> <li>• Ms Jonghwi Park, Programme Specialist, UNESCO Bangkok</li> <li>• Mr Anantha Kumar Duraiappah, Director, UNESCO Mahatma Gandhi Institute of Education for Peace and Sustainable Development</li> </ul>	<i>Room 4</i>
<b>17:45-18:00</b>	<p><b>Concluding remarks</b></p> <ul style="list-style-type: none"> <li>• Mr Kemal Huseinovic, Chief of the Infrastructure, Enabling Environment and E-Applications Department/BDT, ITU</li> <li>• Ms Sofia Fernandez de Mesa, Managing Director, ProFuturo Foundation</li> <li>• Mr Borhene Chakroun, Director, Division for Policies and Lifelong Learning Systems, UNESCO</li> </ul>	
<b>18:15-19:45</b>	<p><b>Cocktail reception</b></p> <p><b>Official launch of the first comprehensive french NLP* Dataset, followed by a molecular cocktail evening served by the Robot Pepper – organized by Skillogs</b></p>	

## WORKSHOPS

<b>08:00 – 10:00</b>	Registration and Policy Forum opening (Room 4)				
<b>10:00-11:30</b>	<b>‘Learning and Skills’ Workshops</b>			<b>‘Freedom of Expression and Access to Information’ Workshops</b>	
	<b>Creating next-generation digital courses: Using AI to support personalized, collaborative, socio-emotional learning</b> UNESCO MGIEP <i>Room 6</i>	<b>Leveraging Artificial Intelligence in higher education</b> International Association of Universities (IAU) <i>Room 9</i>	<b>Artificial Intelligence and disinformation</b> Communication and Information Sector, UNESCO <i>Room 5</i>	<b>AI hands-on for young learners in Africa</b> Communication and Information Sector, UNESCO  <i>Room 7</i>	
<b>11:30 – 11:45</b>	Coffee break				
<b>11:45 – 13:15</b>	<b>‘Learning and Skills’ Workshops</b>			<b>‘Science and Society’ Workshops</b>	
	<b>The impact of artificial intelligence on occupations: Is there a place for intermediate level occupations?</b> JET Education Services, South Africa <i>Room 6</i>	<b>Towards a UN-wide strategy on the Future of Education and Learning</b> Education Sector, UNESCO and UNICEF <i>Room 7</i>	<b>Artificial Intelligence and language learning: A live experience</b> Skillogs <i>Room 5</i>	<b>Apps for environmental monitoring: Fostering citizen scientists or just another consumer product?</b> Natural Sciences and Social and Human Sciences Sectors, UNESCO  <i>Room 9</i>	
<b>13:15 – 14:30</b>	Lunch break				
<b>14:30 – 16:00</b>	<b>‘Learning and Skills’ Workshops</b>			<b>‘Freedom of Expression and Access to Information’ Workshops</b>	<b>‘Creativity and Heritage’ Workshops</b>
	<b>Evaluating the impact of education programs: Methods and case studies</b> ProFuturo Foundation Peru, La Caixa Foundation, J-PAL, Education Endowment Foundation, and KSNET <i>Room 6</i>	<b>Challenges and approaches to capacity building in the age of artificial intelligence</b> ITU and Huawei <i>Room 3</i>	<b>Looking at AI through a gender-lense</b> BMZ <i>Room 5</i>	<b>The holistic approach: Launch of AI primer reflection on rights, openness, access and multi-stakeholder participation</b> Communication and Information Sector, UNESCO <i>Room 9</i>	<b>Create / 2030: AI for creativity</b> Culture Sector, UNESCO <i>Room 7</i>
<b>16:00 – 16:15</b>	Coffee break				
<b>16:15 – 18:00</b>	<b>‘Learning and Skills’ Workshops</b>			<b>‘Freedom of Expression and Access to Information’ Workshops</b>	<b>‘Creativity and Heritage’ Workshops</b>

	<p><b>The next wave of disruption: Teaching and learning in the AI era</b>          Hamdan Bin Mohammed Smart University, United Arab Emirates  <i>Room 6</i></p>	<p><b>Artificial Intelligence and frontier technologies for OER</b>          Communication and Information Sector, UNESCO  <i>Room 7</i></p>	<p><b>Artificial intelligence and Inclusion: Why it matters for reaching of SDGs?</b>          UNESCO IITE and UNESCO Section of Education for Inclusion and Gender Equality  <i>Room 3</i></p>	<p><b>The holistic approach: Open data and AI</b>          Communication and Information Sector, UNESCO  <i>Room 9</i></p>	<p><b>AI challenges for cultural heritage preservation</b>          Culture Section, UNESCO  <i>Room 5</i></p>
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## Day 3 and 4 – Wednesday, 6 March 2019 and Thursday, 7 March 2019

### SYMPOSIUM

*The Symposium is the summit event of Mobile Learning Week. During the two-day event, UNESCO will gather participants from around the world to share experiences and plan joint actions with a view to harnessing AI to achieve Sustainable Development Goal 4 (SDG 4). It will feature keynote speeches, high-level plenary addresses, demonstrations of AI applications and numerous breakout sessions, which will facilitate actions towards:*

#### *1. Ensuring inclusive and equitable use of AI in education*

- 1.1 Large-scale initiatives to support developing countries in boosting the development of AI technology for education, enabling access to AI platforms and resources, and nurturing local innovations in AI*
- 1.2 Successful projects or proved-effective AI solutions to break through barriers for vulnerable groups to access quality education (e.g. natural language processing AI to overcome language barriers, satellite imagery technology to track refugees or other vulnerable groups and/or deliver education, AI technology to enable learning for persons with disabilities, etc.)*
- 1.3 Strategies or programmes that are aimed at preventing gender bias and other discriminations in algorithms and principles used by the design and development of AI*
- 1.4 Projects that are proved successful in promoting gender equality in accessing and applying AI technology for life, learning, and work*

#### *2. Leveraging AI to enhance education and learning*

- 2.1 Research or projects that dynamically define human independent cognitions, which are machine-resistant, and human capabilities to live and work together with AI – namely, human-machine collective intelligence*
- 2.2 AI-powered education management information systems (EMIS) and/or (big) data-boosted education planning systems, supported by evidences drawn from pilot tests of such systems*
- 2.3 AI-boosted learning management systems (LMS) or other AI in education applications that are designed to analyze learning patterns in order to automate the optimization of learning processes or to support teachers to teach students and administer assessments more efficiently and more effectively (rather than ‘replacing’ the need for teachers)*
- 2.4 AI applications or AI-based solutions that have been proven successful in improving outcomes of learning in subject-specific areas or interdisciplinary activities, or in developing creativities*
- 2.5 Research or reviews on whether and how AI can enhance quality of learning and how AI in education will transform teachers’ roles, including reviews on AI applications that are designed to help learning scientists better understand how learning happens*

#### *3. Promoting skills development for jobs and life in the AI era*

- 3.1 International or national policies, strategies or programmes that aim to define frameworks on AI-related skills and/or mainstream AI-related skills development in K-12 and higher education curriculum and/or adult learning programmes, including upskilling and reskilling the existing workforce*
- 3.2 Programmes, including those of academic institutions, that develop skills for AI professionals who develop, deploy or manage AI Systems, and nurture the creation of innovative AI applications, particularly for AI in education professionals who develop, deploy and manage AI in education*
- 3.3 Programmes and initiatives that develop and promote relevant AI skills for those that are most at risk of being left behind, including women and girls, persons with disabilities and other marginalized groups, in particular in developing countries*
- 3.4 Programmes and initiatives that promote the development of AI literacy for all citizens who are exposed to AI in daily life and work without consciousness about how AI technologies are utilizing their personal data*
- 3.5 Programmes that prepare AI-ready policy makers, headmasters, teachers, and other key stakeholders in the education and learning sector*

#### *4. Safeguarding transparent and auditable use of education data*

- 4.1 Research or reviews on the ethical dilemma between making education data available and protecting the confidentiality and privacy of learners’ personal data with a specific focus on children*
- 4.2 Regulatory frameworks adopted to safeguard the transparent and auditable use of education data and learners’ personal data, and AI in education approaches to adopting algorithms that are transparent, explainable and auditable for teachers, students, parents and other stakeholders*
- 4.3 Projects or AI applications in education that use decentralized or distributed data technologies that remains under the control of users rather than being controlled centrally*
- 4.4 Research or reviews that examine the trends of AI’s development that may enable or disable the protection of the confidentiality and privacy of learners’ personal data, or enlighten the hidden perils in the use of AI in education.*



Symposium – Wednesday, 6 March 2019		
08:00 – 09:00	<b>Registration</b>	
09:30 – 9:45	<b>Opening ceremony</b> Moderator: Mr Borhene Chakroun, Director, Division for Policies and Lifelong Learning Systems, UNESCO <ul style="list-style-type: none"> <li>• Ms Stefania Giannini Assistant Director-General for Education, UNESCO</li> <li>• Mr Kemal Huseinovic, Chief of the Infrastructure, Enabling Environment and E-Applications Department/BDT, ITU</li> </ul>	Room 2
09:45 – 11:00	<b>Keynote 1: How do AI trends reshape education?</b> Ms Lynn Dai, Product Executive Director, SenseTime  <b>Plenary #1   Ensuring inclusive and equitable use of Artificial Intelligence in education</b> Moderator: Mr Borhene Chakroun, Director, Division for Policies and Lifelong Learning Systems, UNESCO <ul style="list-style-type: none"> <li>• Mr Ibrahima Guimba Saidou, Director General of the National Agency for the Information Society (ANSI), Niger</li> <li>• Ms Lin Ruiqi, Senior Vice President, Mr Andrew Williamson, Vice President, Huawei, China</li> <li>• Mr Anthony Salcito, Vice-President of Worldwide Education, Microsoft</li> <li>• Ms Hanan Salam, Co-founder of Women in AI, France</li> <li>• Ms Kate Radford, Programme Director of ‘Can’t Wait to Learn’, UK</li> <li>• Ms Elena Sinel, Founder of Teens in AI and Acorn Aspirations, Uzbekistan</li> </ul>	Room 2
11:00 – 11:30	<b>Coffee break</b>	
	<b>Educative platform (MOOC) with creativity and participatory sciences approach using IoT boards</b> Examples of good practices, supported by the Ministry of Education of France	Exhibition area
11:30 – 13:00	<b>Breakout sessions   TRACK 1 - Ensuring inclusive and equitable use of Artificial Intelligence in education</b>	
	<b>1. How is AI used to support and educate refugees?</b> Moderator: Ms Kerstin Holst, Chief, Desk for Education in Emergencies, UNESCO <ul style="list-style-type: none"> <li>• Digital inclusion in the AI era: Ensuring work skills relevancy for refugees and migrants Ms Jean Guo, USA</li> <li>• Learning beyond borders: Refugee Camps Education Mr David Ritter, Ginkoo, China</li> <li>• AI to ensure equitable access to education globally Ms Prya Lakhani, CENTURY Tech and Ministry of Education and Higher Education, Lebanon</li> <li>• Using a mobile application and tangible tokens to introduce rural learners to coding Mr Jean Greyling, Nelson Mandela University, South Africa</li> <li>• Using AI and gamification to bridge language barriers for refugees Ms Elissa Glorie, Travis Foundation, Australia</li> </ul>	Room 5
	<b>2. How the inclusive use of AI can advance education for all?</b> Moderator: Mr Hany Eskandar, ICT Applications Coordinator, ITU <ul style="list-style-type: none"> <li>• Offline data and model training for inclusive AI for students and teachers Mr Richard Tibbles, Learning Equality, USA</li> <li>• The application of augmented reality (AR) in high school science course teaching Ms Guihua Wang and Mr Tianshuai Guan, Beijing Royal School, China</li> <li>• Enhancing the learning process of people with special needs using wearables and AI Mr Karthik Shivashankar, University of Surrey, UK</li> </ul>	Room 6

	<ul style="list-style-type: none"> <li>Developing AI skills to ensure an inclusive society Ms Stella Uzochukwu-Denis, Odyssey Educational Foundation, Nigeria</li> <li>AI and data: Who owns and who manages Mr Anantha Duraiappah, UNESCO MGIEP</li> </ul>	
	<p><b>3. How to harness AI to reduce the learning inequity?</b></p> <p>Moderator: Ms Michela Pagano, Associate Project Officer, Unit for ICT in Education, UNESCO</p> <ul style="list-style-type: none"> <li>An AI-empowered online one-on-one tutoring system to educate students in rural areas Mr Mohamed Ally, Beijing Normal University, China</li> <li>Amrita Learning: Intelligent tutoring system for urban and rural schools Ms Prema Nedungadi, AmritaCREATE, India</li> <li>Education and computer games: Using AI to improve learning with Gidimo in Africa Ms Joy Okah-Edemoh, Pan-Atlantic University, Nigeria</li> <li>Using innovative edtech, including gamification, VR and chatbots, for humanitarian learning Mr Atish Gonsalves, Humanitarian Leadership Academy, UK</li> <li>Designing Artificial Intelligence projects with low cost technology for researchers and learners in disadvantaged populations Ms Bridget Bannerman, Science Resources Africa, Guinea-Bissau</li> </ul>	<i>Room 7</i>
	<p><b>4. Will AI promote equity and gender equality?</b></p> <p>Moderator: Justine Sass, Chief, Section of Education for Inclusion and Gender Equality, UNESCO</p> <ul style="list-style-type: none"> <li>Empowering girls and mothers to use AI to solve problems in their communities Ms Tara Chklovski, Iridescent, USA</li> <li>AI for literacy education in least developed contexts Ms Bosen Liu, Ladder Education Group</li> <li>'I'd Blush if I Could': The gendering of AI digital assistants and its repercussions Mr Mark West, UNESCO</li> <li>Integrating education, AI technology, and SDGs: A three-pronged collaboration Mr Ray Gallon, Tranformation Society, France</li> </ul>	<i>Room 9</i>
	<p><b>Side event</b></p> <p><b>Working towards 'AI in Education Policy Guidelines'</b></p> <p>UNESCO, ITU, ProFuturo Foundation, Beijing Normal University, and Open University</p>	<i>Room 3</i>
<b>13:00 – 14:00</b>	<b>Lunch break</b>	
	<p><b>Educative platform (MOOC) with creativity and participatory sciences approach using IoT boards</b></p> <p>Examples of good practices, supported by the Ministry of Education of France</p>	<i>Exhibition area</i>
<b>14:00 – 14:40</b>	<p><b>Round table I: Promoting open partnership for universal and equitable use of AI in education</b></p> <p>Moderator: Mr Valtencir Mendes, Project Officer, Unit for ICT in Education, UNESCO</p> <ul style="list-style-type: none"> <li>Mr Isidre Fainé, President, La Caixa and Vice-President of ProFuturo Foundation, Spain</li> <li>Mr Wang Guangfa, Chairman, Fazheng Group, China</li> <li>Mr Raphael Moraglia, CEO, Skillogs, France</li> <li>Mr Mansoor Al Awar, Chancellor, Hamdan Bin Mohammed Smart University, UAE</li> </ul>	<i>Room 2</i>
<b>14:40 – 16:40</b>	<p><b>Keynote 2: Artificial Intelligence and human grammars: Can we design better languages?</b></p> <p>Mr Andrea Moro, Neuroscientist and Professor of general linguistics at University School for Advanced Studies IUSS Pavia, Italy</p> <p>Mr Noam Chomsky, Institute Professor and Professor of linguistics emeritus at the Massachusetts Institute of Technology, USA (video message)</p> <p><b>Plenary #2   Leveraging AI to enhance education and learning</b></p>	<i>Room 2</i>

	<p>Moderator: Mr Fengchun Miao, Chief, Unit for ICT in Education, UNESCO</p> <ul style="list-style-type: none"> <li>• Mr Andreas Schleicher, Director for Education and Skills, OECD</li> <li>• Mr Simon Walker, CEO of STEER, UK</li> <li>• Mr Ronghuai Huang, Director of the National Engineering Center for Cyberlearning and Intelligent Technology, Beijing Normal University, China</li> <li>• Ms Priya Lakhani, Founder of Century Tech, winner of the 2018 MIT Solve's Challenge Prize, and founder of the AI equitable access to education programme with the Ministry of Education and Higher Education, Lebanon</li> <li>• Ms Ulla Maaria Koivula, Director of Thinglink, Finland</li> </ul>	
<b>16:40 – 17:00</b>	<p><b>Coffee break</b></p>	
	<p><b>Educative platform (MOOC) with creativity and participatory sciences approach using IoT boards</b></p> <p>Examples of good practices, supported by the Ministry of Education of France</p>	<i>Exhibition area</i>
<b>17:00 – 18:30</b>	<p><b>Breakout sessions   TRACK 2 - Leveraging AI to enhance education and learning</b></p>	
	<p><b>1. Human-machine collective intelligence: What is the way forward?</b></p> <p>Moderator: Jonghwi Park, Programme Specialist, UNESCO Bangkok</p> <ul style="list-style-type: none"> <li>• Predictive modeling and machine learning to drive reader engagement Mr Periša Ražnatović, Worldreader</li> <li>• AI for education interventions beyond the classroom Mr Kwaku Ofori, National Information Technology Agency, Ghana</li> <li>• Using learning analytics in complex environments on a global scale Ms Paula Valverde, ProFuturo Foundation</li> <li>• Cognitive AI disrupting lifelong learning Mr Harri Ketamo, Headai Ltd, Finland</li> <li>• Next Generation By Design: Optimizing digital exchange for chatbots and AI technologies to enhance learning Mr Dale Allen, DXtera Institute and Mr Francesc Santanach, Universitat Oberta de Catalunya</li> </ul>	<i>Room 5</i>
	<p><b>2. How can AI boost education and learning management systems?</b></p> <p>Moderator: Lindsay Young, Associate Project Officer, Unit for ICT in Education, UNESCO</p> <ul style="list-style-type: none"> <li>• How can we increase students' motivation and engagement in intelligent LMS using gamification and AI? Mr Seiji Isotani, University of São Paulo, Brazil</li> <li>• Multi-agent technique towards enhancing learning management systems Mr Mohamed Abdel Razek, Al Azhar University, Egypt</li> <li>• Talking books with an AI-boosted learning management system Ms Rokhaya Diawara, UNESCO Abuja</li> <li>• Applying artificial intelligence to improve scores on international assessments by monitoring learning conditions Mr Ali Al Yafei, Ministry of Education, UAE</li> <li>• LabXchange: An open-source platform for personalized learning and challenge-driven education at a global scale Mr Robert Lue, Harvard University, USA</li> </ul>	<i>Room 6</i>
	<p><b>3. How can AI improve learning? (session in Spanish)</b></p> <p>Moderator: Mr Rossieli Soares, former Minister of Education and current Education Secretary of São Paulo State, Brazil</p> <ul style="list-style-type: none"> <li>• Enabling innovative learning in Latin American universities: What is the role of AI? <i>Facilitar el aprendizaje innovador en las universidades latinoamericanas: ¿cual es el rol de IA?</i> Ms Mildred Vanessa López Cabrera, Tecnológico de Monterrey ITESM, Mexico</li> <li>• Understanding Artificial Intelligence in primary Education <i>Entendiendo la Inteligencia Artificial en la enseñanza elemental</i> Mr José Manuel Sáez López, Universidad Nacional de Educación a Distancia, Spain</li> </ul>	<i>Room 7</i>

	<ul style="list-style-type: none"> <li>• How to apply AI in language Learning <i>Como aplicar la IA en el aprendizaje de lenguas extranjeras por mobile learning</i> Ms Izabel de Andrade, Serviço Nacional de Aprendizagem Industrial (SENAI), Brazil</li> <li>• Mobile learning from the base: From augmented and virtual reality to artificial intelligence <i>Aprendizaje móvil desde la base: desde la realidad aumentada y virtual a la inteligencia artificial</i> Ms Verónica Iglesias Fustes, CEIP Ponte dos Brozos, Spain</li> <li>• Children in social vulnerability: Leading Artificial Intelligence in public schools <i>Niños en vulnerabilidad social: Inteligencia Artificial en escuelas públicas</i> Ms Yesenia Venegas, Fundación Quirós Tanzi, Costa Rica</li> </ul>	
	<p><b>4. What are the implications of AI for teachers?</b> Moderator: Mr Edem Adubra, Chief, Section of Teacher Development (Secretariat of the International Task Force on Teachers), UNESCO</p> <ul style="list-style-type: none"> <li>• Tech for teachers: What educators need to know about AI Ms Scarlet George, Oxford Insights</li> <li>• mJangale: Teaching STEAM to youth in Senegal through AI Ms Christelle Sharff, mJangale, USA</li> <li>• The teacher assistant to assure quality of education to everyone Mr Antonio Alger, ese+, El Salvador</li> <li>• Using AI to support teachers and teacher development Ms Ines da Silva, UNESCO</li> <li>• Symbolic AI and machine learning: Playing nice together at last Mr Elliot Soloway, University of Michigan, USA</li> </ul>	Room 9
	<p><b>Side event</b> <b>The Global Digital Library: Prototyping new reading experiences with AI</b> NORAD, Norway</p>	Room 3
<b>18:30 – 20:30</b>	<b>Reception</b>	Hall Ségur



	<p><b>3. How can AI be harnessed to inform skills development and assessment?</b> Moderator: Ms Ethel Agnes Pascua-Valenzuela, Deputy Director for Programme and Development, SEAMEO Secretariat</p> <ul style="list-style-type: none"> <li>• Games in the age of thinking machines: Leveraging AI to enhance game-based learning Mr Ali Alshammari, University of Tabuk, Saudi Arabia</li> <li>• Evaluation in education with Artificial Intelligence Mr Pramod Kumar, Ms Avinasha Sharma, Directorate of School Education, India</li> <li>• The innovation of higher education in the Artificial Intelligence context Mr Li Ming, International Centre for Higher Education Innovation, China</li> <li>• Employment map: Building an employment tool using big data Luis Miguel Olivas, Telefónica Foundation</li> <li>• Paving the way towards a better future: HBMSU School of Artificial Intelligence Ms Souma Alhaj Ali, Hamdan Bin Mohammed Smart University, UAE</li> </ul>	<i>Room 7</i>
	<p><b>4. Working towards AI-ready education and lifelong learning systems</b> Moderator: Ms Lina Benete, Programme Specialist, UNESCO Almaty</p> <ul style="list-style-type: none"> <li>• How 'augmented intelligence' can raise learning outcomes Mr Richard Marett, Whizz Education, UK</li> <li>• The importance of openness in developing AI in education Mr Neil Butcher, OER Africa, South Africa</li> <li>• Bridging the gaps in education through transforming teaching and learning with AI-based solutions in Africa Ms Jingxin Bao, UNESCO IICBA</li> <li>• Leveraging AI within connected learning: Opportunities and constraints Mr Charley Wright, UNHCR</li> <li>• A holistic approach towards the use of AI in education Ms Svetlana Malkarova, State University of Management, Russia</li> <li>• Creative Program Design: Creating relevant AI skills Mr Manuel Pereira Colocci and Mr Samuel Gordon, US Department of State, USA</li> </ul>	<i>Room 8</i>
	<p><b>Side event</b> <b>Preparing post-millennials for their AI future by cultivating a growth mindset and developing habits of mind</b> Beijing Royal School, China</p>	<i>Room 9</i>
<b>12:50 – 14:00</b>	<b>Lunch break</b>	
<b>14:00 – 15:30</b>	<p><b>Breakout sessions   TRACK 2 – Leveraging AI to enhance education and learning (cont.)</b></p> <p><b>1. How can AI boost education and learning management systems?</b> Moderator: Mr Peter Wells, Chief, Section for Higher Education, UNESCO</p> <ul style="list-style-type: none"> <li>• Digital Intelligence Virtual Assistant (DIVA) Ms Helen Crompton, Old Dominion University, USA</li> <li>• Realizing ShiraX, an open-source platform that creates turnkey AI-based educational apps for autonomous learning Mr Jason Bavington, Midnight Illusions, Canada</li> <li>• Moodle, the de facto learning platform to facilitate research and experimentation with educational data Mr David Monllaó Olivé, Moodle, Spain</li> <li>• How to use big data/learning analytics to find out success cases inside social programs Ms Milada Gonçalves and Mr Rubem Saldanha, ProFuturo Foundation, Brazil</li> <li>• AI in education in Kenya and Malawi: A view from the ground Mr Salim Salamah and Mr Jamie Proctor, Department for International Development, UK</li> </ul>	<i>Room 5</i>

14:00 – 15:30	<p><b>2. How can AI improve learning?</b> Moderator: Mr John Moravec, Education Futures</p> <ul style="list-style-type: none"> <li>• AI to support human intelligence Mr Andreas Hörfurter, Common sense eLearning, Austria</li> <li>• Use of biometric tools based on AI for the identification of participants in MOOCs Ms Lorena Alemán de la Garza, Ms Marcela Georgina Gómez Zermeño, Tecnológico de Monterrey, Mexico</li> <li>• Student-centered design for AI Projects: How to use design techniques to evaluate AI projects Mr Diogo Cortiz, Network Information Center</li> <li>• mHealth learning and app development for health diagnoses and tracking with AI Mr Dominic Mentor, Columbia University, USA</li> <li>• How Wikipedia is using AI in education Ms Nichole Saad, Wikimedia Foundation</li> </ul>	Room 6
	<p><b>Side event<sup>1</sup></b> <b>Supporting curriculum alignment with AI: Lessons from refugees with education platforms</b> UNHCR – the UN Refugee Agency, Google.org, Learning Equality, Vodafone Foundation</p>	Room 7
	<p><b>Side event</b> <b>Using AI and OER data: Convergence among OER platforms offers unprecedented opportunities</b> Knowledge 4 All foundation, UNESCO Chairs in Open Educational Resources (OER) and Artificial Intelligence (AI), Slovenian Ministry of Education, Science and Sport</p>	Room 8
15:30 – 15:50	<p><b>Coffee break</b></p> <p><b>Artificial Intelligence in schools: Are you ready for it?</b> Presentation of the cases of Beijing Royal School (China) and the mSchools (Spain) by the UNESCO-Fazheng project</p>	Exhibition area
15:50 – 16:20	<p><b>Round table II: Promoting open partnership for universal and equitable use of AI in education</b> Moderator: Ms Shafika Isaacs, University of Johannesburg, South Africa</p> <ul style="list-style-type: none"> <li>• Mr Hao Gong, Chairman, Huashi Education Group, China</li> <li>• Ms Liv Marte Kristiansen Nordhaug, Senior Advisor, Norad, Norway</li> <li>• Ms Zohra Yermeche, Program Director, Ericsson, Sweden</li> </ul>	Room 2
16:20 – 17:40	<p><b>Plenary #4   Safeguarding transparent and auditable use of education data</b> Moderator: Mr Tao Zhan, Director, UNESCO IITE</p> <ul style="list-style-type: none"> <li>• Mr Edson Prestes, Head of the Robotics Research Group, Federal University of Rio Grande do Sul, Brazil</li> <li>• Ms Alexandra Bensamoun, Professor and member of the French working group on AI's legal and regulatory challenges, France</li> <li>• Mr Carsten Boekholt, Customer Success Lead of SAP Asia, Singapore</li> <li>• Mr Wayne Grixti, CTO at Malta Digital Innovation Authority, Chairman MALTA.AI Taskforce, Malta</li> </ul>	Room 2
17:40 – 18:30	<p><b>Keynote 4: What human-machine collective intelligence should be developed to enable human to live and work together with AI?</b> Mr François Taddei, President of The CRI Center for Research and Interdisciplinarity, France</p> <p><b>Symposium closing ceremony</b> Mr Borhene Chakroun, Director, Division for Policies and Lifelong Learning Systems, UNESCO</p>	Room 2

<sup>1</sup> This side meeting will continue by a follow up activity entitled Design Sprint on Curriculum Alignment in Crisis Contexts, to take place on 11 and 12 March 2019 on the 7<sup>th</sup> floor (invitation only, for more information please contact: [rsvp@learningequality.org](mailto:rsvp@learningequality.org))

Day 5 – Friday, 8 March 2019

## STRATEGY LABS

The Strategy labs will convene interested partners to launch major initiatives and conceptualize collaborative projects that seek to harness AI's potential in accelerating the achievement of SDG 4.

09:00 – 11:30	<b>Strategy Lab 1 - AI Global Goods for Education</b> Partners: ITU and UNESCO	Room 3
	<b>Strategy Lab 2 – AI for SDG 4: Towards a global consensus on AI in education</b> Partners: UNESCO, Weidong Group, NORAD, SEAMEO and Huawei	Room 6
	<b>Strategy Lab 3 – AI in a box: A free worldwide K-12 mobile and TV network</b> Partner: Skillogs	Room 7
	<b>Strategy Lab 4 – AI in Education Readiness Index</b> Partners: Microsoft, ITU, ProFuturo Foundation, APPLE, Baidu and UNESCO	Room 8
	<b>Strategy Lab 5 – Using AI to support teachers and teacher development</b> Partners: UNESCO Section of Teacher Development and International Task Force on Teachers for Education 2030	Room 5
	<b>Strategy Lab 6 – Artificial Intelligence for youth</b> Partners: Ericsson and UNESCO	Room 9
15:00 – 17:00	<b>Strategy Lab 7 – How to combine AI and collective intelligence to create a GPS for knowledge?</b> Center for Research and Interdisciplinarity and UNESCO This activity is invitation only. For more information, please contact: <a href="mailto:n.aouka@unesco.org">n.aouka@unesco.org</a>	<a href="#">Center for Research and Interdisciplinarity</a>
<b>INTERNATIONAL WOMEN'S DAY</b>		
11:30-13:00	<b>Women online: Challenges for gender equality in the digital space</b> International Women's Day-UNESCO Campus+ event	Room 4
13:00-14:00	<b>Reception</b>	Hall Ségur
14:00-17:00	<b>WIKI4Women 2019</b> <a href="http://on.unesco.org/wiki4women">http://on.unesco.org/wiki4women</a>	Hall Ségur
	<b>AI and Women photo exhibit (1-31 March)</b>	Fences of avenue Suffren

## MOBILE LEARNING WEEK EXHIBITIONS

Monday 4 March 2019 to Thursday 7 March 2019

Hall Ségur and Foyer

UNESCO, ITU, ProFuturo Foundation and Skillogs, as well as sponsors and supporters, will host a number of side events and information meetings to complement the main programme of Mobile Learning Week.