



Tentative Program
as of October 1st, 2019

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Schedule at a glance

Workshops

Monday, 28 October | AUDITORIUM, HUGOT, DE LA TOUR AND ACADEMY MEETING ROOMS

Workshop 1. Social Dynamics & Culture of AI | FULL DAY, Auditorium

Workshop 2. AI for Digital Humanities and Computational Social Sciences | FULL DAY, 7&8 meeting room

Workshop 3. CoCoLAd: Human-Machine Co-Creation, Co-Learning and Co-Adaptation | FULL DAY, Hugot meeting room

Workshop 4. AI and Information Disorder | FULL DAY, Salon de l'Académie

Workshop 5. Global AI Commons for SDGs | FULL DAY, de la Tour meeting room

Plenary sessions

Tuesday, 29 October | AUDITORIUM

8:45 - 9:00: Opening speech by Cédric Villani

9:00 - 10:30: Session 1. Trustworthy AI: cybersecurity, safety, privacy, intelligibility of AI techniques

11:00 - 12:30: Session 2. Data governance: ethical, political & legal challenges

14:00 - 15:30: Session 3. Future of work and economic impacts of AI

16:00 - 17:30: Session 4. Delegation of decisions to machines, human agency and oversight

17:30 - 18:30: Summary of the 5 workshops

19:00 Cocktail dinner | Grande Halle

Wednesday, 30 October | AUDITORIUM

9:00 - 10:30: Session 5. AI & Human values: inequalities, biases, fairness, representation of minorities, gender balance

11:00 - 12:30: Session 6. Next big challenges in core AI technology

14:00 - 15:30: Session 7. AI for Humanity: The Global Challenges

16:00 - 18:00: Session 8. Global cooperation issues and the GPAI organisation

Plenary sessions | 29-30 October

Tuesday, 29 October

8:45 - 9:00	Opening speech by Cédric Villani, Sorbonne University, Parliament of France
9:00 - 10:30	<p>Session 1 - Trustworthy AI: cybersecurity, safety, privacy, intelligibility of AI techniques</p> <p><i>Chairs: Raja Chatila, Sorbonne University, and Virginia Dignum, Umeå University</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • David Sadek, Thales AI and Cybersecurity • Fosca Giannotti, CNR, Italy Intelligibility of AI • Michael Fisher, University of Liverpool Verification and Certification • Stuart Russell, University of California Beneficial AI • Karen Yeung, University of Birmingham AI and Privacy
10:30 - 11:00	BREAK
11:00 - 12:30	<p>Session 2 - Data governance: ethical, political & legal challenges</p> <p><i>Chairs: Sylvie Delacroix, University of Birmingham & Alan Turing Institute, and Joelle Pineau, McGill University & Facebook</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • Lise Getoor, University of California • Neil Lawrence, Cambridge University • Paul Nemitz, European Commission • Nigel Shadbolt, Open Data Institute
12:30 – 14:00	LUNCH
14:00 – 15:30	<p>Session 3 - Future of work and economic impacts of AI</p> <p><i>Chairs: Yuko Harayama, Tohoku University, and Michela Milano, University of Bologna</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • Céline Antonin, Paris Institute of Political Studies • Richard Baldwin, Graduate Institute, Switzerland • Janine Berg, International Labor Organization, Switzerland • Anousheh Karvar, French Ministry of Labour • Andrew Wyckoff, Directorate for Science, Technology and Innovation, OECD, France
15:30 – 16:00	BREAK
16:00 – 17:30	<p>Session 4 - Delegation of decisions to machines, human agency and oversight</p> <p><i>Chairs: Rebecca Finlay, CIFAR, and Hideaki Takeda, National Institute of Informatics, Japan</i></p>

	<p>Speakers:</p> <ul style="list-style-type: none">• Virginia Dignum, Umeå University• Marzyeh Ghassemi, Vector Institute, University of Toronto• Jeroen van den Hoven, Delft University of Technology• Illah Nourbakhsh, Carnegie Mellon University• Carme Torras, Spanish Scientific Research Council
17:30 – 18:30	<p>Summary of the 5 workshops of October 28</p> <p><i>Session chair: Bertrand Pailhes (French Ministry of Digital Affairs)</i></p> <p>Speakers: workshop organisers</p>

Cocktail dinner at the “Grande Halle” of the GFAIH venue at 19:00

Wednesday, 30 October

9:00 – 10:30	<p>Session 5 - AI & Human values: inequalities, biases, fairness, representation of minorities, gender balance</p> <p><i>Chair: Françoise Soulié-Fogelman, Hub France IA</i></p> <p>Speakers :</p> <ul style="list-style-type: none"> • Introduction by Françoise Soulié-Fogelman • Eric Salobir, Office of Priests for ICT “AI & solidarity: when technology strenghtens social bonds” • Ricardo Baeza-Yates, INTENT and Northeastern University “Interaction biases” • Francesco Bonchi, ISI Foundation “Fairness and privacy” • Kate Crawford, AI Now and Microsoft “The Politics of Classification” • Laurence Devillers, Sorbonne University “Nudging with Affective computing system: inequalities and ethical issues”
10:30 – 11:00	BREAK
11:00 – 12:30	<p>Session 6 - Next big challenges in core AI technology</p> <p><i>Chairs: Fei-Fei Li, Stanford University, and Junichi Tsujii, Artificial Intelligence Research Center, Japan</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • Andreas Dengel, DFKI • Oren Etzioni, Allen Institute, University of Washington • Martial Hebert, Carnegie Mellon University • Holger Hoos, Leiden University • Bernhard Schölkopf, Max Planck Institute
12:30 – 14:00	LUNCH
14:00 – 15:30	<p>Session 7 - AI for Humanity: The Global Challenges</p> <p><i>Chairs: Jocelyn Maclure, Laval University, and Stuart Russell, University of California</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • Cristina Conati, University of British Columbia • Celine Herweijer, Price Waterhouse Coopers • Nicholas Ayache, Inria • Stephen Muggleton, Imperial College
15:30 – 16:00	BREAK
16:00 – 18:00	<p>Session 8 - Global cooperation issues and the GPAI organization</p> <p>Panel 1: Regulations and redlines <i>Panel chair: Pekka Ala-Pietila, Blyk Ltd. & chair of EU HLEG</i></p>

	<p>Panelists:</p> <ul style="list-style-type: none">• Yuko Harayama, Tohoku University• Konstantinos Karachalios, IEEE• David Sadek, Thales• Jim Snabe, Siemens <p>Panel 2: GPAI</p> <p><i>Panel chair: Henri Verdier, French Ministry of European and Foreign Affairs, and Lisa Setlakwe, ISED, Canada</i></p> <p>Panelists:</p> <ul style="list-style-type: none">• Moez Chakchouk, UNESCO• Barry O’Sullivan, Eur AI
18:00 – 19:00	Concluding session

Workshops | 28 October

Workshop 1. Social Dynamics & Culture of AI: rethinking cultural and ethical issues in AI

Monday, 28 October | Auditorium

Organisers

Raja Chatila (Pierre and Marie Curie University, France), Véronique Guèvremont (Laval University, Canada), Vanessa Nurock (Paris 8 University, France), Marie-Hélène Parizeau (Laval University, Canada, Chair of COMEST/UNESCO).

Workshop Overview

Artificial intelligence is currently the focus of many scientific and political debates. However, there is a surprising lack of cultural questions in these debates, even though culture forms the vibrant heart of every society. Recently, some political and professional authorities have been calling for an ethical framework for AI development and digital practices that could also guide legislative initiatives. This movement towards the establishment of legal, technical and professional standards could become a social opportunity for large-scale creativity – provided that the issues remain open and that the problems are identified and analyzed.

This workshop is part of that moment, which could be described as normative openness. It proposes four central themes in the form of round-table discussions that link AI and digital development with new social and cultural trajectories:

1. Programming ethics into “autonomous” machines (ethics by design) and the impact on the concept of human freedom;
2. The convergence of surveillance and biometric identification AI and digital technologies and the transformation of privacy;
3. The impact of AI and digital development on cultural creation and their standardization to the detriment of cultural diversity and the plurality of cultural expressions, as well as the dilution of copyright;
4. The fixation of certain worldviews through algorithmic programming and their ethical and political significance in terms of reports of gender discrimination and domination.

The new social and cultural trajectories initiated by current AI and digital development must be questioned, critiqued and chosen rather than being experimented with in Darwinian fashion like a vast social experiment. Peripheral to the Global Forum on AI for Humanity, the workshop brings together specialists from various disciplines to propose this process.

The workshop will be in French and English (with simultaneous interpretation).

Format: 15 min presentation for each speaker and 30 minutes of general discussion per round-table. The workshop program was made by CIFAR in collaboration with COMEST (World Commission on the Ethics of Scientific Knowledge and Technology) of UNESCO.

Workshop Agenda | Monday, 28 October | Auditorium

9:00 – 9:30	Introduction
9:30 – 11:00	<p>Round-table 1 -Can we program ethics into autonomous machines? The example of autonomous cars and weapons</p> <p><i>Chair: Peter-Paul Verbeek, philosopher, University of Twente, the Netherlands, COMEST</i> <i>Moderator: Mélanie Dulong de Rosnay, CNRS, France</i></p> <ul style="list-style-type: none"> • Raja Chatila, Director of the Institute of Intelligent Systems and Robotics, Pierre and Marie Curie University, France • Patrick Lin, Director, Ethics and Emerging Sciences Group, California Polytechnic State University “AI as omniscience: a threat to human dignity and autonomy?” • John Finney, Emeritus Professor of Physics, University College London “Can autonomous weapons obey the ‘laws’ of war?” • Jennifer Ang, Director, Centre for University Core, Singapore University of Social Sciences “Are autonomous weapons truly autonomous?”
11:00 – 11 :20	BREAK
11:20 – 12:50	<p>Round-table 2 - Between surveillance and identification: what privacy protection? The examples of facial recognition and biometrics</p> <p><i>Chair: Tomislav Bracanović, philosopher, Institut of philosophy, Zagreb, Croatia, COMEST.</i> <i>Moderator : Francesca Musiani , CNRS, France</i></p> <ul style="list-style-type: none"> • James Katz, College of Communication, Boston University “Public attitudes toward AI-enabled surveillance and facial/biometric identification technology: Views from a US opinion surveys” • François Berger, neurologist and researcher, INSERM, France “Digital biometric of the self and the amplification of IA: a new questionable medicine” • Marie-Hélène Parizeau, philosopher, Laval University, COMEST/UNESCO Chair “Digital biometric and assigning identity: ethical and political analysis” • Clare Gravie, legal expert, Center on Privacy and Technology, Georgetown University “Face recognition and the right to anonymity”
12 :50 – 14:00	LUNCH
14:00 – 15:30	<p>Round-table 3 - Cultural politics in the era of AI: Creativity and Discoverability</p> <p><i>Chair: Luka Omladič, philosopher, University of Ljubjana, Slovénia, COMEST.</i> <i>Moderator : Yves Citton, Eur ArTeC, Paris 8 University</i></p> <ul style="list-style-type: none"> • Véronique Guèvremont, legal expert, Laval University “The new measures in favour of discoverability” • Octavio Kulesz, UNESCO consultant and digital publisher at Teseo Press, Argentina

	<p>“Artificial intelligence and the cultural sector: opportunities and challenges”</p> <ul style="list-style-type: none"> • Pierre-Luc Déziel, legal expert, Laval University “Use personal data in a context of valuing cultural diversity” • Alexandra Bensamoun, legal expert, Rennes 1 University, CERDI, France “The protectability of AI creations: a legal and ethical issue”
15:30 – 15:50	BREAK
15:50 – 17:20	<p>Round-table 4 - Gender in Artificial Intelligence : Ethical, Legal and Political Issues</p> <p><i>Chair: Sang Wok Yi, philosopher, Hanyang University, Republic of Korea. Moderator: Marie Lechner, Gaieté Lyrique, France</i></p> <ul style="list-style-type: none"> • Heather Woods, Communication Studies, Kansas State University “The Politics of Gendering ‘AI’ Assistants: Learning from Popular Culture Contexts” • Susan Leavy, Computer science, University College, Ireland “Gender Proof: Preventing AI from Learning and Perpetuating Gender Bias” • Vanessa Nurock, philosopher, Paris 8 University, France
5:20 – 18:00	Discussion

Workshop 2. AI for digital Humanities and computational social sciences

Monday 28 October | Institut de France, 7&8 meeting room

Organiser

Alexandre Gefen, CNRS

Workshop Overview

For humanities and social sciences, AI is a doubly essential issue. It is obviously a major societal issue because the questions about it and its consequences are currently invading the public sphere through the multiple issues of acceptability, privacy protection or economic impact, involving the expertise of the entire HSS community. However, it is also a new way of doing research, where massive data processing is made possible by machine learning and deep learning, offering new perspectives for analysis because AI allows a decisive quantitative and predictive leap.

The most spectacular applications of artificial intelligence have been in the field of image recognition, but they now extend to the processing of all kinds of data, from speech recognition in linguistics to printed characters and handwritten texts. They then lead, among other things, to prediction in the financial field, decision-making assistance in law or medicine, or to automatic translation or classification of texts. The applications of machine learning can therefore concern as much economics, sociology, geography as archaeology in all tasks of identification and classification, as distance reading and text mining in literature or history. This epistemologic question challenges our ways of producing and representing knowledge, at the frontiers of philosophy and cognitive sciences.

To think about the question of intelligence and that of human humanity, but also to make scientific research benefit from the methodological advances of AI, such is the double challenge that is emerging for SHS and that this workshop would like to describe.

Workshop Agenda | Monday 28 October | Institut de France, 7&8 meeting room

9 :30 – 10 :45	<p>Panel 1 - Language and literature</p> <p><i>Chair and moderator: Thierry Poibeau, Senior scientist, CNRS, Lattice</i></p> <ul style="list-style-type: none"> • Mark Algee-Hewitt, Professor, Director of the Stanford Literary Lab • Nicholas Asher, Senior Scientist, CNRS, IRIT • Francesca Frontini, Assistant Professor • Thierry Poibeau, Senior scientist, CNRS, Lattice “Computational linguistics meets literary studies: exploring characters and spaces in novels” • Beatrice Alex, Research Fellown University of Edinburgh “AI and the Humanities: A two-way conversation”
10:45 – 11:15	BREAK
11:15 – 12:30	Panel 2 – Digital Economics

	<p><i>Chair and moderator: Patrick Pintus, Professor, CNRS-InSHS, Aix-Marseille University</i></p> <ul style="list-style-type: none"> • Valerio Sterzi, Assistant Professor, Bordeaux University • Pablo Winant, Professor, ESCP Europe, CREST • Gilles Saint-Paul, Professor, Ecole Normale Supérieure • Clara Jean, PhD Student, Epitech & Paris Saclay University
12:30 – 14:00	LUNCH
14:00 – 15:15	<p>Panel 3 - Digital history</p> <p><i>Chair and moderator: Marcus Liwicki, Professor of Machine Learning, Sweden</i></p> <ul style="list-style-type: none"> • Sabine Süsstrunk, Professor, EPFL Lausanne • Daniel Stoekl, Professor, EPHE, France • Dominique Stutzmann, Scientist, Institut de Recherche et d'Histoire des Textes • Enrique Vidal, Professor, Universitat Politècnica de València • Alicia Fornés, Senior Researcher, Universitat Autònoma de Barcelona “The combination of computer vision and gamification for transcribing historical manuscripts”
15:15 – 15:30	BREAK
15:30 – 16:45	<p>Panel 4 - Computational social sciences</p> <p><i>Chair and moderator: Tommaso Venturini, Scientist, CNRS, Centre Internet et société</i></p> <ul style="list-style-type: none"> • David Chavalarias, Senior Scientist, CNRS, director of ISC-PIF • Noortje Marres, Associate Professor, University of Warwick • Tobias Blanke, Professor in Social and Cultural Informatics, King’s College • Camille Roth, Scientist, CNRS, Centre Marc Bloch, Germany • Pablo Jensen, Senior Scientist, ENS Lyon “The politics of computational social sciences”
16:45 – 17:00	BREAK
17:00 – 18:15	<p>Panel 5 - AI, epistemology, cognitive sciences</p> <p><i>Chair and moderator: Gloria Origgi, Senior Scientist, CNRS, Institut Jean Nicod</i></p> <ul style="list-style-type: none"> • Franck Varenne, Assistant Professor, Rouen University “A contribution of the epistemology of models to AI” • Anouk Barberousse, Professor, Sorbonne University • Bertrand Thirion, Senior Scientist, Inria “The brain and the mind” • Jérôme Lang, Senior Scientist, IRIT, CNRS • Baptiste Mèlès, Scientist, Archives Henri-Poincaré, CNRS

Workshop 3. CoCoLAd: Human-Machine Co-creation, Co-Learning and Co-Adaptation

Monday 28 October | Hugot meeting room

Organisers

Andreas Dengel, DFKI, Germany, and Laurence Devillers, CNRS, Sorbonne University, France

Workshop Overview

This workshop welcomes 15 prestigious international speakers in our CoCoLAd Workshop addressing topics of Human-Machine Co-creation, Co-Learning and Co-Adaptation. In five sessions, each consisting of three speeches, we will have these topics examined by different experts to discuss them after the talks.

1. In session 1 professor Kenji Mase starts with a talk regarding the so called “socialware”, a novel social and semantic information technology promoting a symbiotic society. The professors Gordon Cheng and Koichi Kise will then discuss engineering approaches of robots for human-robot interaction including brain-based design, as well as how machines can help us to share and profit from our experiences that make up a large part of our human intelligence.

2. After the insights to symbiotic interaction and learning session 2 consists of talks addressing augmented human and intelligence amplification. Professor Marcello Lenca starts off with a talk on how to maximize the benefits of augmented intelligence while minimizing the ethical risks. Professor Masahiko Inami gives insights into how the view of the human body could change in the future. This also includes for example, merging technology with the human body to give disabled people mobility back. In order for automated systems to assist humans in the most suitable way it is necessary to understand a degree of human behavior. Therefore, Professor Didier Stricker will present different technologies which allow to better capture and describe user’s behavior.

3. Session 3 concentrates on aspects regarding the understanding of human cognition and creation of AI. First of all, Professor Raúl Rojas will present the project IntelliChalk, which consists essentially in transforming the chalkboard in an interactive medium in order to enhance the classroom experience. A series of works that has studied fundamental mechanisms of curiosity-driven learning in humans and machines, providing new insights to understand the origins of tool use and language will be outlined and brought into the context of e-learning systems by Professor Pierre-Yves Oudeyer. In the last talk of this session professor Vincent Aleven will give an example on how the classroom of the future might look like, how the human-machine partnership could possibly be orchestrated effectively and which challenges arise in such a project.

4. The penultimate session 4 deals with affective computing and co-adaptation. Modeling user affection can be extremely useful for systems that aim to support users, but it is also a very challenging task, that is why professor Christina Conati will illustrate the perks and challenges of modeling user affect for user-adaptive interaction. Following this, Professor Elisabeth André will tackle the topic of interactive machine learning in the context of multimodal affective behavior analysis. She will present an approach that facilitates the acquisition of annotated data sets by involving end users directly into the machine learning process. According to Professor Justine Cassell, nowadays computers are not

only treated as tools but as partners or team members, this is why she will address the design of such systems.

5. Finally, Professor Kevin O'Regan will open session 5, which focuses on the future of the machines and social interaction & intervention, by trying to answer the question if we can develop moral AI. Empowering People, specifically by using technology for inclusivity and healthcare is Professor Kenji Suzuki's topic who will provide several examples of AI being used in these fields.

Our ambiguous relationships with symbiotic or autonomous machines raise questions regarding ethics. Augmented intelligence and AGI are main topics for our future society. The robotic simulation has the virtue of questioning the nature of our own intelligence. Capturing, transmitting and mimicking our feelings will open up new applications in health, education, transport and entertainment. Our goal in this workshop is to understand the state of the art in Human-Machine Co-creation, Co-Learning and Co-Adaptation and to discuss how to anticipate the ethical risks. The workshop includes 5 sessions with 3 presentations of 25 minutes each.

Workshop Agenda | Monday 28 October | Hugot meeting room

9:00 – 9:30	Brief introduction of the sessions Andreas Dengel, DFKI, Germany, and Laurence Devillers, CNRS, Sorbonne University
9:30 – 10:45	Session 1 - Symbiotic Interaction and Learning Chair: Didier STRICKER <ul style="list-style-type: none"> • Kenju Mase, Nagoya University “Symbiotic Interaction: social and semantic interactions of augmented humans and ambient intelligence” • Gordon CHENG, TUM, Germany “Brain-based design for human-machine coexistence” • Koichi Kise, Osaka University “Experiential Supplements: Sharing Human Experiences for Co-Learning”
10:45 – 11:15	BREAK
11:15 – 12:30	Session 2 - Augmented Human and Intelligence Amplification Chair: Koichi KISE <ul style="list-style-type: none"> • Marcello Ienca, ETH Zürich, Switzerland “Ethical Dimensions of Augmented Intelligence » • Masahiko Inami, Tokyo University “JIZAI Body: From Physical Cyborg to Virtual Cyborg » • Didier Stricker, DFKI “Cognitive natural user interfaces through advanced artificial perception”
12:30 – 14:00	LUNCH
14:00 – 15:15	Session 3 - Understanding human cognition and creation of Artificial cognition Chair: Marcello IENCA <ul style="list-style-type: none"> • Raul Rojas, FU Berlin “Intelligent Classrooms and intelligent books” • Pierre-Yves Oudeyer, Inria, France

	<p>“Theories of curiosity-driven learning and application to educational technologies”</p> <ul style="list-style-type: none"> • Vincent Aleven, Carnegie Melton University “AI for personalized learning: Students, teachers, and AI systems augmenting each others' abilities”
15:15 – 15:45	BREAK
15:45 – 17:00	<p>Session 4 - Affective Computing & Co-Adaptation Chair: Laurence DEVILLERS</p> <ul style="list-style-type: none"> • Cristina Conati, University of British Columbia “Perks and challenges of modeling user affect for user-adaptive interaction” • Elisabeth Andre, University of Augsburg, Germany “Empowering Multimodal Affective Behavior Analysis by Interactive Machine Learning” • Justine Cassell, Carnegie Melton University “People and Computers Getting to Know One Another over Coffee”
17:00 – 18:15	<p>Session 5 - Future of the machines and social interaction & intervention Chair: Andreas DENGEL</p> <ul style="list-style-type: none"> • J. Kevin O’Regan, CNRS “Can we make moral A.I.?” • Kenji Suzuki, University of Tsukuba “Empowering People: Human Technology for Inclusivity and Healthcare”
18:15 – 18:30	<p>Summary of the 5 sessions Andreas Dengel, DFKI, and Laurence Devillers, CNRS/Sorbonne University</p>

Workshop 4. AI & Information Disorder

Monday 28 October | Institut de France, Salon de l'Academie

Organisers

Claude Castelluccia, Inria, and Ioana Manolescu, Inria and Ecole Polytechnique

Workshop Overview

This workshop aims at highlighting the multiple roles that AI plays in the battle against misinformation and manipulation. On one hand, AI provides a formidable arm for evil, for instance through malicious bots and illicit information gathering about users. On the other hand, AI technologies are increasingly being developed to fight data misuse and data-driven manipulation. The workshop will cover these two perspectives and aim at tracing the road ahead for researchers and practitioners.

The workshop includes two sessions.

Workshop Agenda | Monday 28 October | Institut de France, Salon de l'Académie

9:30 – 9:45	Outline of the day Claude Castelluccia, Inria, and Iona Manolescu, Inria and Ecole Polytechnique
9:45 – 10:45	Morning session - How is AI used to manipulate users <ul style="list-style-type: none"> Emiliano De Cristofaro, University College London & Alan Turing Institute, London "Data-driven measurements of cyberbullying, hate, and misinformation"
10:45 – 11:00	BREAK
11:00 – 12:30	Morning session - How is AI used to manipulate users <ul style="list-style-type: none"> David Stillwell, Lecturer in Big Data Analytics and Quantitative Social Science at Cambridge University Judge Business School "Big Data or Big Brother? The ethics of big data psychometrics" Giorgio Patrini, CEO and Chief Scientist of DeepTraceLabs, the Netherlands "Deepfakes: commodification, consequences and countermeasures"
12:30 – 14:00	LUNCH
14:00 – 16:15	Afternoon session - How AI is used to fight misinformation <ul style="list-style-type: none"> Jun Yang, Duke University "Computational Fact Checking through Query Perturbations" Ewa Kijak, Rennes University, IRISA, Inria, CNRS, France "Tampering detection in images to fight fake news" Will Moy, Full Fact, UK "Using AI to Transform the Global Fight against Misinformation"

16:15 – 16:30	BREAK
16:30 – 18:00	Afternoon session - How AI is used to fight misinformation <ul style="list-style-type: none">• Paolo Papotti, EURECOM, France “Explainable Fact Checking with Probabilistic Answer Set Programming” Panel: Dangers and opportunities, what does the future hold?

Workshop 5. Global AI Commons for SDGs

Monday 28 October | de la Tour meeting room

Organisers

Amir Banifatemi, XPRIZE / AI commons, Alexandre Cadain, Anima / AI Commons, Cyrus Hodes, The Future Society / AI Commons, Yolanda Lannquist, The Future Society / AI Commons, Nicolas Miallhe The Future Society / AI Commons

Workshop Overview

The day-long workshop will bring together and build a community and advance the AI Commons, a new global omni-stakeholder non-profit initiative based in Paris and Montreal which aims to accelerate the delivery of the 17 UN Sustainable Development Goals. The workshop follows previous sessions held at the Global Governance of AI Forum in Dubai (World Government Summit; February 2019), in Montreal (March 2019), and at the AI for Good Global Summit in Geneva (ITU, XPRIZE and UN agencies; May 2019).

This workshop seeks to build a community of stakeholders to develop and deploy a promising new global partnership based in Paris for expanding AI to benefit society broadly. The AI Commons (AIC) is a global omni-stakeholder non-profit initiative which seeks to accelerate and democratize responsible adoption and deployment of AI solutions for social good applications, focusing on the seventeen UN Sustainable Development Goals. The project brings together a wide range of diverse stakeholders around innovative and holistic problem "identification-to-solution" frameworks and protocols with the ultimate objectives of pooling critical AI capabilities (data, domain specific knowledge, talent, tools & models, computing power and storage) into an open and collaborative platform that can be used to scale up use of 'AI for Everyone'.

This one-day workshop in Paris is designed to share the building blocks of AI Commons (AIC) and augment its impact on first use cases and initiatives. We will gather the current AIC community and newcomers to learn know more and participate in the global effort.

Workshop Agenda

9:00 – 10:30	<p>Part 1 - Introducing AI Commons (AIC) : a collaboration framework for the common good</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Amir Banifatemi, XPRIZE / AI commons • Alexandre Cadain, Anima / AI Commons • Maria Axente, PwC • Alpesh Shah, IEEE • Stuart Russell, UC Berkeley • Nicolas Miallhe, The Future Society / AI Commons
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	<p>AI Commons (AIC) is building a trusted collaboration mechanism for anyone to share AI resources and build synergies to empower solution development at scale.</p> <ol style="list-style-type: none"> 1. Context: from AI for Good to AI Commons 2. Commons and AI: sharing as a driver for impact 3. Communities and Tools : A Global Movement and Framework 4. Governance and incentives: supporting policy and deployments
10:30 – 10:45	BREAK
10:45 – 12:30	<p>Part 2 - Building Blocks of the AI Commons</p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> • Yolanda Lannquist, The Future Society / AI Commons • Myriam Côté, MILA / AI Commons • Alexandre Cadain, Anima / AI Commons • Pascale Fung, CAIRE • Sean McGregor, XPRIZE • Anna Bethke, Intel • Stefan Germann, Botnar Foundation • Nicolas Mialhe, The Future Society / AI Commons • Julien Cornebise, Element AI • Maria Axente, PwC • Konstantinos Karachalios, IEEE / AI Commons • Zaki Khouri, World Bank • Alain Bensoussan, Lexing Law • Amir Banifatemi, XPRIZE / AI Commons • Marc-Antoine Dilhac, Montreal University • Sasha Rubel, UNESCO • Karine Perset, OECD <p>The AI Commons (AIC) aims to democratize access to AI capabilities to a broader range of problem solvers and innovators from the public and private sectors. This helps overcome barriers to entry for actors seeking to develop AI technologies and applications that impact the SDGs.</p> <p>Introduction: Quick summary of past workshops</p> <p>A: Communities of Intent</p> <ol style="list-style-type: none"> 1. Identifying and solving real problems together: Collaborative Platform 2. Initiative examples : Living Labs, Solution Repository / ImpactNet, AI for SDG Centers <p>B. Sharing AI Resources</p> <ol style="list-style-type: none"> 1. Sharing Resources (Data, Algorithms, Computing Power, Frameworks,...) for problem solving 2. Initiative examples : AI Sandbox, Global Data Commons <p>C. Frameworks and Synergies</p> <ol style="list-style-type: none"> 1. Responsible development and deployments 2. Initiative examples : Ethical Framework: IEEE/PWC, Global Licences: Alain Bensoussan, Lexing Law, AI Adoption in Developing Countries, World Bank <p>D. Governance Models</p>

	<p>1. Sharing Practices</p> <p>2. Initiative examples : Global Civic Forum (TFS, Montreal Observatory on Societal Impacts of AI, UNESCO), Global Civic Debate on Governing the rise of AI (TFS), Montreal Declaration (Montreal University), Health Data Hub (French Government)</p>
12:30 – 14:00	LUNCH
14:00 – 15:45	<p>Part 3 - Deploying the AI Commons</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Nicolas Mialhe, The Future Society / AI Commons • Maria Axente, PWC • Alpesh shah, IEEE • Yolanda Lannquist, The Future Society / AI Commons • Alexandre Cadain, Anima / AI Commons <p>The AI Commons deployment will be impactful with first uses cases and initiatives in place. Participants can discuss in parallel workstreams on best way to enable capabilities and create initial value. Discussion tables will enable rapid overview of proposed initiatives and proposing an execution roadmap and creating workgroups</p> <p>Workstream 1: Communities of intent and collaboration Workstream 2a: Sharing AI Knowledge and expertise Workstream 2b: Sharing Data Workstream 2c: Providing Cloud, Compute, and access Workstream 3: Frameworks and Synergies Workstream 4: Governance</p>
15:45 – 16:15	BREAK
16:15 – 17:30	<p>Part 4 - Synergies for Impact</p> <p><i>Speakers: Workstream Leads, Panelists ,...</i></p> <ol style="list-style-type: none"> 1. Presentation of workstream roadmaps 2. Panel: Synergies and Collaboration for Scale and Impact Panel 3. Conclusions and next steps

Exhibition: Au-delà du terroir – Beyond AI art

Curator

Emily L. Spratt

The recent developments of artificial intelligence to analyze and generate visual content with deep learning techniques, especially generative adversarial networks (GANs), have offered radically new possibilities for its creative applications and appropriations as art. Defiant of dimension, irreverent in form, unorthodox in meaning, and experimental to the core, to describe the artistic engagements with the newest machine learning tools in the digital medium is an exercise in exceeding our cultural referents; they are beyond *terroir*. To locate the origins of these digital creations is to point to a dataset, since the provenance of the machine-learned and generated image is rendered unknowable in the process of its interpretation and manufacturing. To call it “AI art”, however, is to reduce it to a means of its production, as if only one tool had agency in its composition, when the machine-learned and generated image is forever rooted in the real-world phenomena inherent to its ultimate sources, its datasets, and has been directed and selected by its makers. Uncritically labeled art of this variety has led to its purely stylistic associations with first iterations of GANs, but the horizons of possibility on the level of form are nearly infinite as these images are manifested in a multi-dimensional space, and machine learning is constantly evolving.

Beyond “AI art” exhibition explores the use of tools that defy our expectations of what we have designated as the reach of human-cultivated creativity, and puts to question our means to contextualize its output; it is art that is *anti-terroir*. The seven projects showcased here have been contributed by the leading artists, scholars, and cultural heritage specialists working with these tools. Together, they are intended to provoke questions on the philosophical and ethical implications of machine learning techniques to explore, analyze, and create art and architecture, and to underscore the everlasting value of *terroir*, even in its opposition.

An abstract painting featuring multiple faces rendered in a soft, painterly style. The faces are composed of various colors including pinks, reds, blues, and browns, set against a light, textured background. The overall composition is dense and layered, with some faces appearing more prominent than others.

Au-delà du Terroir Beyond AI Art

An Exhibition for the Global Forum on AI for Humanity
Curated by Emily L. Spratt

Hito Steyerl
Mario Klingemann
Refik Anadol
Robbie Barrat
AICAN
ICONEM

Emily Spratt, Thomas Fan, with Alain Passard