

# Ethics, Governance & Regulation

Peter Sy

University of the Philippines

Acknowledgements: Mark Luis Bulan & Rhoanna Marie Dizon of moodLearning, Inc (design & illustration)



#### ENGLISH 🗸 🔍 🚨

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SHS/IGM-AIETHICS/2021/JUN/3 Rev.2 25 June 2021 Original: English and French

#### DRAFT TEXT OF THE RECOMMENDATION ON THE ETHICS OF ARTIFICIAL INTELLIGENCE

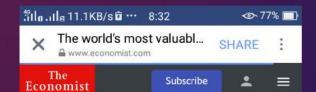
Pursuant to the <u>40 C/Resolution 37</u>, and in accordance with the UNESCO Constitution and the Rules of Procedure concerning recommendations to Member States and international conventions covered by the terms of Article IV, paragraph 4, of the Constitution, the Director-General of UNESCO convened an Ad Hoc Expert Group (AHEG) for the preparation of a draft text of a Recommendation on the Ethics of Artificial Intelligence, and submitted the draft text of the Recommendation to the special committee meeting of technical and legal experts, designated by Member States.

The special committee meeting was held in two phases, the first from 26 to 30 April 2021 and the second from 21 to 25 June 2021. Intersessional consultations were also organized in the period from 1 to 18 June 2021 (12 days). The special committee meeting revised the draft Recommendation and approved the present text for the submission to the General Conference at its 41<sup>st</sup> session for adoption.

## **Session Objectives**







#### Regulating the internet giants The world's most valuable resource is no longer oil, but data

The data economy demands a new approach to antitrust rules



Print edition | Leaders >

The Economist World politics Business & finance Economics Science & technology Cultur Special report: Technology and politics -Living with technology The data republic

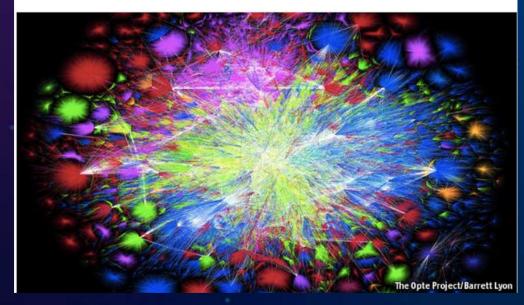
To safeguard democracy, the use of data should be made as transparent as possible

Mar 26th 2016 | From the print edition

Timekeeper



🔰 Tweet



# Qualifier: 'Weak' Al





expert systems

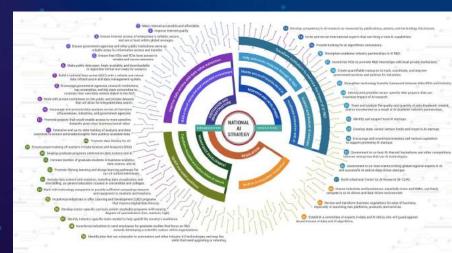
#### not ASI/AGI

Philippine Roadmap priority problem-driven



#### agriculture, manufacturing, & services

#### business efficiency



#### mobility

#### environment



agriculture, manufacturing, & services

business efficiency

mobility

 DQDeepTech
 AUTHOR: DQINDIA ONLINE

 OCTOBER 25, 2021
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No comments

# Artificial intelligence: The future of businesses

The future belongs to intelligent automation. With that said, organizations adopting artificial intelligence (AI) or giving it a top priority in their digital transformation initiatives will be the leaders for tomorrow.

environment

**Optimal Mass Transport: Signal processing** and machine-learning applications Publisher: IEEE **Cite This** agriculture, manufacturing, & services MDP Open Access Article Artificial Intelligence, Transport and the business efficiency Smart City: Definitions and Dimensions of a **New Mobility Era** by 🕛 Alexandros Nikitas 1,\* 🖂 💿, 🕕 Kalliopi Michalakopoulou 1 🧿 🕐 Eric Tchouamou Njoya <sup>1</sup> and 🕐 Dimitris Karampatzakis <sup>2</sup> 🙆 Journals & Magazines > IEEE Signal Processing Magazine > Volume: 34 Issue: 4 **Optimal Mass Transport: Signal processing** and machine-learning applications Publisher: IEEE **Cite This** 

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agriculture, manufacturing, & services

business efficiency

mobility

environment

Journal for a Sustainable Circular Econom Application of machine learning algorithms in municipal solid waste management: A mini review Wanjun Xia<sup>®</sup>, Yanping Jiang, Xiaohong Chen, more... Show all authors ~ First Published July 16, 2021 Review Article Circular https://doi.org/10.1177/0734242X211033716 TELECOM Review Mart waste management using AI and machine learning

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### Policy & Governance

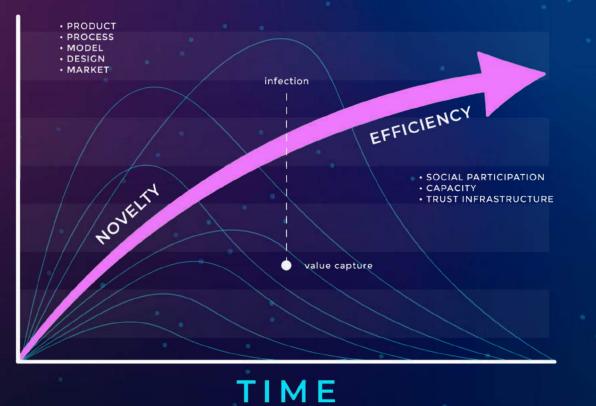
#### **NO TOKENISM**

#### ENABLING ENVIRONMENT

- aggressive policies to 'demo or die'
- governance framework tuned to PH ethos & societal needs

# Innovation

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Sy, PA 2021 (Graphic: Crizza Elaine Ilustre)

### **Trust Infrastructure**

#### Trust

- "a socio-technical concept implying that the research, design, development, deployment, and use of AI systems should inspire, instead of infringing on, trust among people and in AI systems" (UNESCO, 2020)

# Trust Infrastructure



## Trust vs 'Cult of Transparency'

- transparency cornerstone value
- trust essential organizational structures, facilities, processes for advancing AI, unburdened by (among others) "the cult of transparency" (O'Neill, 2002)









### Data Processing

- Data are people
- open data policy
- framework for data sharing / data linking
  - o government data
  - government + business data
  - problem-focused

# Data Processing

#### safe

proper de-identification

### ARX

#### **Data Anonymization Tool**

ARX is a comprehensive open source software for anonymizing sensitive personal data. It supports a wide variety of (1) privacy and risk models, (2) methods for transforming data and (3) methods for analyzing the usefulness of output data.

The software has been used in a variety of contexts, including commercial big data analytics platforms, research projects, clinical trial data sharing and for training purposes.

ARX is able to handle large datasets on commodity hardware and it features an intuitive cross-platform graphical user interface. You can find further information here, or directly proceed to our downloads section.

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#### The De-Identification Decision-Making Framework

Christine M O'Keefe, Stephanie Otorepec, Mark Elliot, Elaine Mackey and Kieron O'Hara

#### 18 September 2017



### Al Researcher's Info Fiduciary Duties

- Personal data processing entails entering into an ethical and legal relationship
- 2 parties (at least)
  - the personal information controller (PIC) - first party (information fiduciary)
  - the data subject second party (beneficiary)
  - 3rd parties implied by relationships

# Al Researcher's Info Fiduciary Duties



DUTIES

care

confidentiality

#### **Data Processing Presumptions**

- "presumption of regularity" principle: unless there is evidence to prove the contrary, transactions in the course of business are assumed to have been conducted in the regular manner
- "presumption of legitimacy" (sometimes)
  - Legitimate Purpose Test
    - Purpose (interest served)
    - Necessity

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Balance (overriding rights?)
 privileged position of AI research

### Recap

- Al governance & regulation
  - equitable access: open data
  - o principle-based
    - transparency
    - trust
      - data processing
        - privacy preserving
        - Fiduciary duties
        - presumptions
          - regularity
          - legitimacy: public benefit
      - enabling environment
        - professional self-regulation
        - oversight

