


How to frame the interplay between Artificial Intelligence (AI) and Society?

Yuko HARAYAMA

Professor Emeritus, Tohoku University

Human-machine relationship?

- Not so new!
 - Human-machine interface, universal design, operation research, ...
 - Nature of human being
 - Inventing, improving, creating, ...
 - “Artifact”
 - Role of engineering!
- 
- Changing relationship?

What about AI?

Evolving relationship

- Production of essential goods
 - Human inventing and using tools
- Mass production
 - Human controlling the system
 - Standardized works executed by humans
- Automatized production
 - Human controlling the system
- + Artificial Intelligence (AI) → Flexibility, adaptability, connectivity
 - Human assisted by AI, delegating to AI



Human in the loop
or Human centered!

- Human still controlling the entire system & decision making?

We are experiencing AI

Getting quick answer to your inquiry
Comforted by kind conversation
Guided by “invisible hand”
Freed from hard work
→ While generating many concerns

What's new with
Generative AI?



And becoming « dependent »?

Category	Technology
Knowledge Representation & Reasoning	Expert Systems
Learning	Recommender Systems Apprentices by Demonstration
Communication	Machine Translation Speech Recognition
Perception	Facial Recognition Text Recognition
Planning	Transport & Scheduling S
Physical Interaction (Robotics)	Self-Driving Cars Home Cleaning Robots
Social & Collaborative Intelligence	Neg
Integrating Technology	Virtu

Human assisted by AI,
delegating to AI
→ Controlled by AI?

AI interfering with our being & self
→ Affecting human rights &
human dignity?

AI Watch: Assessing Technology Readiness Levels for Artificial Intelligence
https://publications.jrc.ec.europa.eu/repository/bitstream/JRC122014/jrc122014_assessing_technology_readiness_levels_for_artificial_intelligence-1.pdf

How to react?

- International framework
 - OECD AI Principles (2019)
 - UNESCO Recommendation on the Ethics of AI (2021)
 - EU AI Act (European Parliament adopted its negotiating position 6/2023)
 - **Council of Europe** AI Convention (forthcoming)
- International fora
 - Global Partnership on AI (GPAI)(2020-)
- Actor-driven actions
 - Asilomar AI Principles
 - Big Tech's self-regulation

Centrality of human!

From principles
to practices?

Council of Europe Committee on AI

- Council of Europe
 - 46 Member States
 - 6 Observer States (including Japan)
 - Mission
 - To promote democracy, human rights and the rule of law across Europe and beyond
- **Committee on AI** (CAI) (2022/4-)
 - Composition (beyond its Member States)
 - Observer States
 - Other international and regional organisations
 - Private sector
 - Civil society, research and academic institutions
 - Main deliverables
 - Appropriate legal instrument on the development, design, and application of artificial intelligence systems based on the Council of Europe's standards on human rights, democracy and the rule of law, and conducive to innovation, in accordance with the relevant decisions of the Committee of Ministers

Tentative

- Beyond the dichotomic debates
 - EU versus US
 - Regulation versus Self-regulation
 - Hard-law versus Soft-Law
 - Binding rules versus Non-binding rules
 - Centralized versus Decentralized supervision
- Providing space to meet, to discuss, to reflect together, and to form a shared perspective
 - Prerequisites: dialogue, openness, inclusiveness, flexibility
 - Facilitating the adoption in the national context
 - Facilitating onboarding of new comers
 - To equip with the capacity to evolve

AI and Society

- Tentative of framing the interplay between AI and society
- Different approaches tested
- Aligned actions needed!
- Space for a collective reflection and learning!