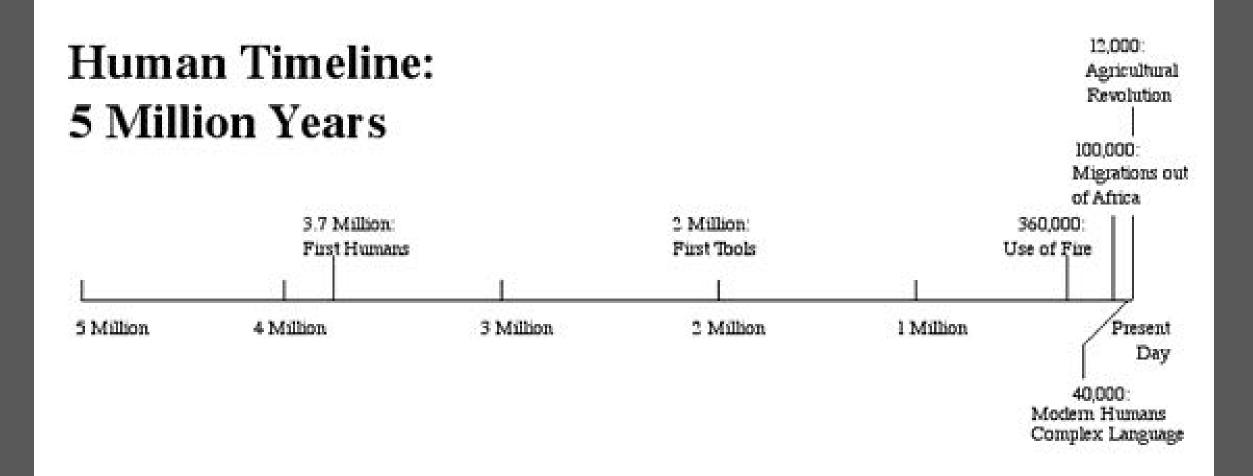


A comparative analysis of governmental AI strategies: from narrative, to utopia passing by ethics

Kave Salamatian, University of Savoie



Human Timeline: 50,000 Years 3000 BC: · Writing, 12,000 •Pyramids Domesticated horse 25,000: Agricultural Revolution 40,000: ·Wheeled vehicles Pop.: 50 million ·Last Ice Age Modern Humans flourish Peopling of Americas Population: 10 million Complex languages 1000 AD: and Japan Blade technology Pop : 250 mil. 50,000 40.000 30,000 20,000 10,000 5,000

IAD: Rome/China linked

Present. Day.

2000:

Pop.: 6 billion

Human History Timeline: 5000 Years

•Writing •Pyramids •Domesticated horse Pap : 50 million	•Sails •Dictionary •Maps	 Alphabet Horse-drawn vehicles Road networks 	 China/Rome linked Abacus Census Library Don - 200 million 	Movable tyj Europe/Am Pop.: 500 m Novel Europe/Mid-East linked Pop.: 250 million		ericas linked
Pop.: 50 million	Pop.: 100 million	Pop : 150 million	Pop.: 200 million	-Pop. 250 mini	2/1	
3000 BC	2000 BC	1000 BC	1 AD	1000	1500	2000 Present Day
Fuel Source SUN			wood		COAL	202.80
Revolutions AGRICULTURAL						TRIAL OBMATION
			COMMU			MMUNICATIONS

Renaissance

Human History Timeline: 5000 Years

•Writing •Pyramids •Domesticated horse Pop.: 50 million	-Sails -Dictionary -Maps Pop.: 100 million	•Alphabet •Horse-drawn vehicles •Road networks Pop.: 150 million	•China/Rome linked •Abacus •Census •Library Pop.: 200 million	•Movable typ •Europe/Ann Pop.: 500 m •Novel •Europe/Mid-East linked •Pop.: 250 million		ericas linked illion Pop.: 6 billion	
3000 BC	2000 BC	1000 BC	IAD	1000	1 1500	2000 Present Day	
Fuel Source SUN			WOOD	WOOD		COAL_OIL	
Revolutions AGRICULTURAL					110	STRIAL FORMATION MMUNICATIONS	

Renaissance

Myths and legends

- The importance of legend/myths/unseens
 - Animism
 - Gilgamesh legend
 - Babel tower
 - Pythie of Delft
- Utopia
 - Harmony with nature
 - Immortality
 - Unification
 - Overcoming uncertainty



Digital ?

- Trade-off between freedom and cooperation
 - Individualism vs. Society, specie vs. Individual,
- Digital is trading-off the precision and the uniqueness of individual experience with the necessity of coordinating/exchanging
 - Intrinsically related to communication/coordination/cooperation
- Digital revolutions
 - Langages
 - Tools
 - Writing
 - Printing
 - Computers
 - Internet
 - AI

Claude Shannon's Life Overview

- 1916 (April 30) born in Petoskey, Michigan
- 1936 BS EE and BS Math University of Michigan
- 1937 MS EE MIT, thesis applied Boole's logic to circuit design
 - Considered "best MS thesis of the century"
- 1940 PhD MIT, Department of Mathematics
- 1940 National Research Fellow, Institute for Advanced Study in Princeton, NJ (Hermann Weyl, von Neumann, Einstein, Gödel)
- 1941-1956 Bell Labs, Murray Hill, New Jersey
 - During World War II worked on fire-control systems and cryptography
 - 1943 met and shared ideas with Alan Turing at Bell Labs
 - Proved the cryptographic one-time pad unbreakable
 - Invented information theory key paper 1948
- 1956-1978 MIT Research Lab of Electronics
- 2001 (February 24) died at age 84 (almost 85)



Shannon's Ultimate "Useless" Machine



What is Al?

- Wikipedia : Artificial intelligence (AI) is intelligence demonstrated by machines.
 - the term "artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem solving »
- On anthropologic ground IA is the utopia of the human without its weaknesses
 - Physical
 - Psychological
 - Political

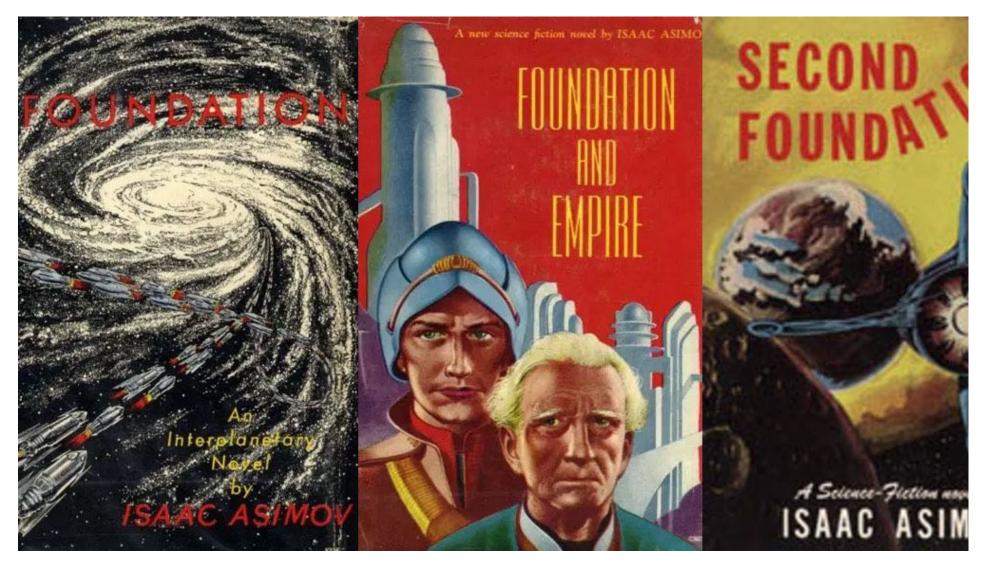
Science fiction/litterature

MINORITY REPORT

TOM CRUISE



Science fiction



Utopian/dystopian views of IA

- Humans are unpredictible, they are messy, they are unreliable
 - They are weak and corruptible
- Computers are there to help
 - We need IA to tame the uncertainty of humanity
 - Max Weber bureaucracy
 - All regular activities within a bureaucracy can be regarded as official duties;
 - Management has the authority to impose rules;
 - Rules can easily be respected on the basis of established methods.

RULE #1 The Boss is Always Right. RULE #2 If The Boss is Wrong, See Rule #1

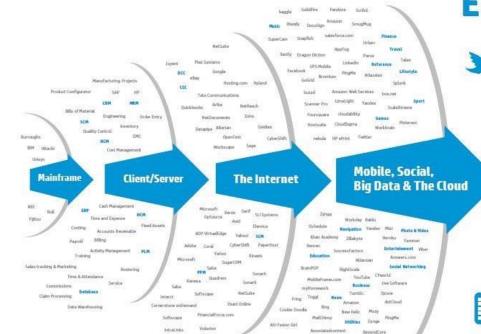
DATASphere and Anthropocene

The Economist

HAY 28TH-JUNE 34D 2011 Economist.com

me to the Anthro

Getting Spain's protesters off the plazas Obama, Bibi and peace The costly war on cancer How the brain drain reduces poverty A soft landing for China



Every 60 seconds

98,000+ tweets

695,000 status updates

11million instant messages

698,445 Google searches

🔁 168 million+ emails sent

1,820TB of data created

217 new mobile web users

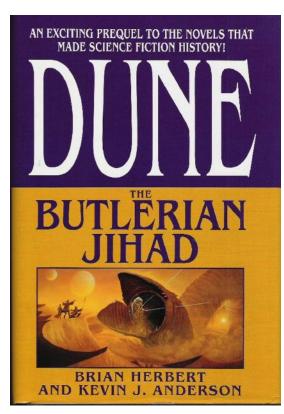
Utopian/dystopian views of IA 2

- Humanity is not wisely dealing with world ressources
 - Climate crisis, energy waste,
- BUT «human should be in control of nature » so
- IA is there to help
 - IA will let human to optimize the resource
 - IA is here to tame to bad environmental habits
- Environmental punishment is a common theme



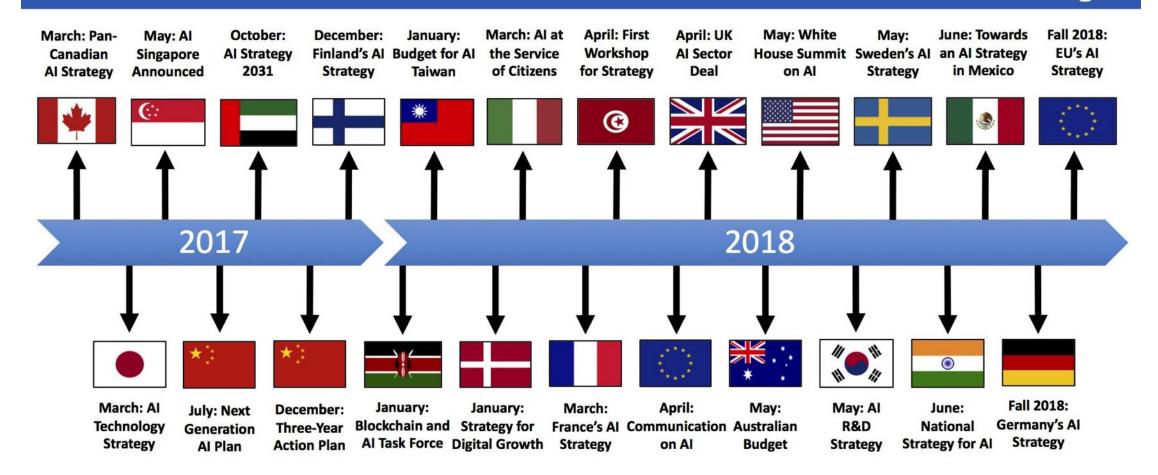
Utopian/dystopian views of IA 3

- Humans are imperfect
 - They are weak, mortal, imprecise
 - Death is difficult, illness is tough,
- We need to make human better
 - Transhumanism
 - Cyborg
 - Humanoid robot
 - Matrix /





Artificial Intelligence Strategies



2018-07-13 | Politics + AI | Tim Dutton