

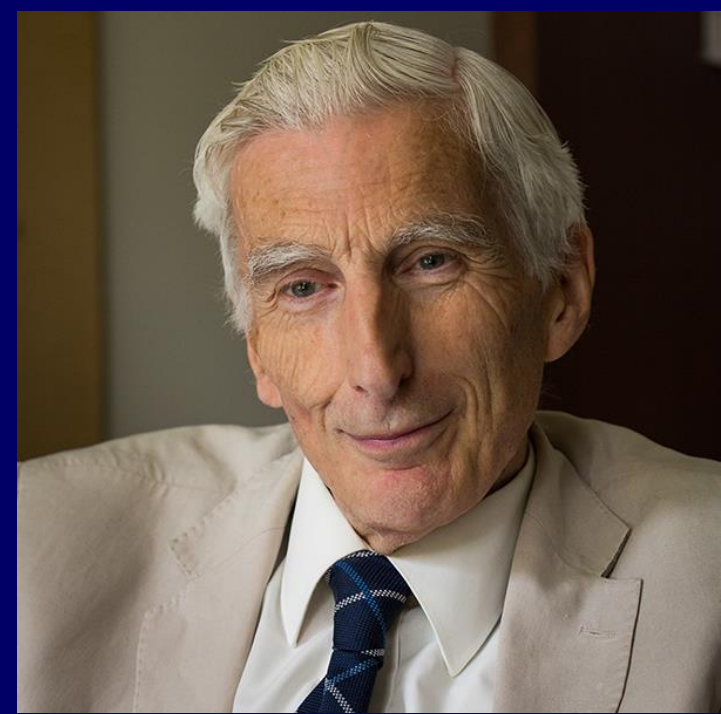
**BATH ROYAL LITERARY AND SCIENTIFIC
INSTITUTION**

**ARTIFICIAL INTELLIGENCE
AND THE FUTURE OF
HUMANITY**

PROF. JOHN C LENNOX

THE FUTURE OF HUMANITY?

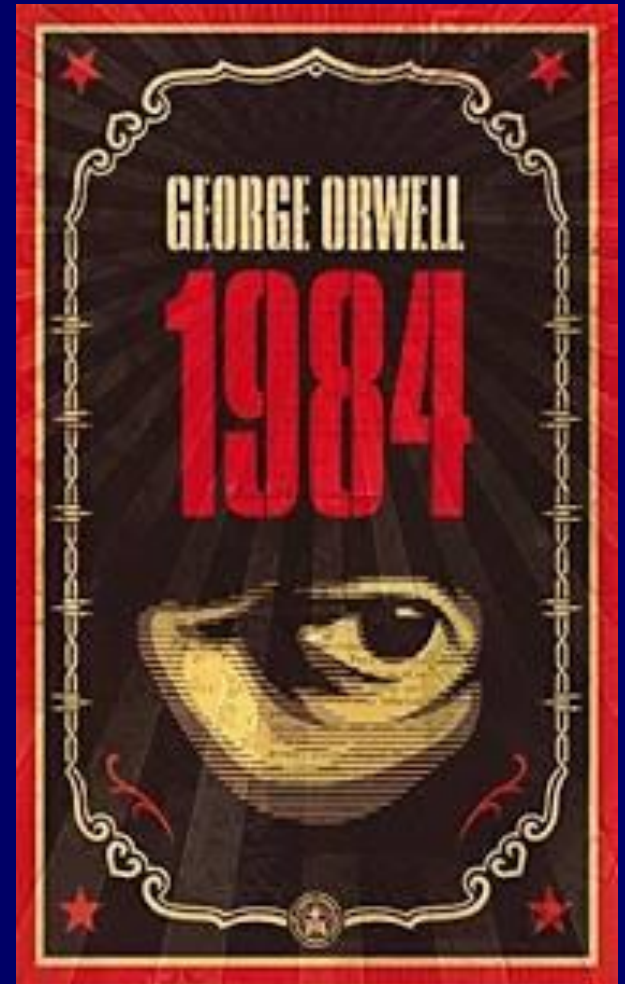
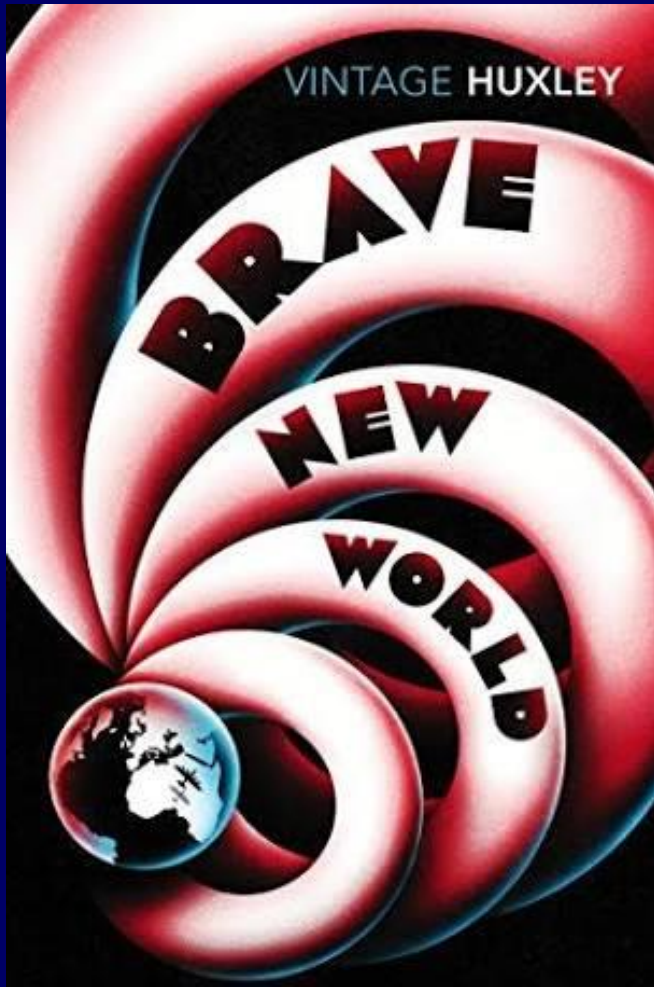
Abstract thinking by biological brains has underpinned the emergence of all culture and science. But this activity – spanning tens of millennia at most – will be a brief precursor to the more powerful intellects of the inorganic post-human era. So, in the far future, it won't be the minds of humans, but those of machines, that will most fully understand the cosmos



LORD REES
UK ASTRONOMER
ROYAL

The danger isn't that a new alien entity will speak through our technology and take over and destroy us. To me the danger is that we'll use our technology to become mutually unintelligible or to become insane, if you like, in a way that we aren't acting with enough understanding and self-interest to survive, and we die through insanity...

JARON LANIER



NEIL POSTMAN ON HUXLEY'S 'BRAVE NEW WORLD' AND ORWELL'S '1984'

Orwell warns that we will be overcome by an externally imposed oppression. But in Huxley's vision, no Big Brother is required to deprive people of their autonomy, maturity and history. As he saw it, people will come to love their oppression, to adore the technologies that undo their capacities to think...

**Orwell feared that what we hate will ruin us.
Huxley feared that what we love will ruin us.**

NARROW AI

A NARROW AI SYSTEM DOES
ONE THING THAT NORMALLY
REQUIRES AN INTELLIGENT
HUMAN.

RADIOLOGY

AI for analysing chest X-ray images may help increase diagnostic accuracy and reduce time to diagnosis by providing additional information for radiologists. It uses an algorithm (set of step by step instructions embedded in computer software) that sort, filter and select from a large data base of X-rays labelled with the diseases they represent. The technology automatically reads medical images and identifies abnormalities.

**AI IS NOT INTELLIGENT BUT
SIMULATES INTELLIGENCE**

THE IMITATION GAME

TURING

In human beings intelligence is coupled with consciousness

Many leading AI researchers are content to simulate intelligence without consciousness since it is the hard problem.

“We are interested in creating programs that behave intelligently. The additional project of making them conscious is not one that we are equipped to take on, nor one whose success we would be able to determine.”

STUART RUSSELL AND PETER
NORVIG

THE ARTIFICIAL IN ARTIFICIAL INTELLIGENCE IS REAL

“It seems to me that a lot of needless debate could be avoided if AI researchers would admit that there are fundamental differences between machine intelligence and human intelligence—differences that cannot be overcome by any amount of research. In other words, the “artificial” in artificial intelligence is real.”

JOSEPH MACRAE MELLICHAMP
UNIVERSITY OF ALABAMA

CURRENT EXAMPLES

- ONLINE SHOPPING
- DIGITAL ASSISTANTS/GPT
- MEDICINE
- AUTONOMOUS VEHICLES
- JOB SEARCH/INTERVIEW
- CRIME PREVENTION/CRIME PRODUCTION
- AUTONOMOUS WEAPONS
- SOCIAL CONTROL
- DEEP FAKES

AI AND MORALITY

, “People need to understand that current AI- and the AI we can foresee in the reasonable future – does not, and will not, have a moral sense or moral understanding of what is right and what is wrong”

YOSHUA BENDIGO

THE QUEST FOR ARTIFICIAL GENERAL INTELLIGENCE (AGI)

BUILDING A SUPERINTELLIGENT AI
SYSTEM THAT EQUALS OR EXCEEDS ALL
HUMAN CAPACITIES

EITHER BY ENHANCING EXISTING
HUMANS BY BIOENGINEERING OR BY
CONSTRUCTING A SUPERINTELLIGENCE

THE MILLION COPY BESTSELLER

Yuval Noah Harari



AUTHOR OF
Sapiens

Homo Deus

A Brief History
of Tomorrow

*'Homo Deus will shock you. It will entertain you.
It will make you think in ways you had not thought before'*

DANIEL KAHNEMAN

VINTAGE



1. War is Obsolete – you are more likely to commit suicide than be killed in conflict;
2. Famine is Disappearing – you are more at risk from obesity than starvation;
3. Death is now Just a Technical Problem.

HOMO DEUS
YUVAL NOAH HARARI

HARARI'S 21st CENTURY AGENDA

1. SERIOUS BID FOR IMMORTALITY
2. INTENSIFICATION OF PURSUIT OF HAPPINESS

It will be necessary to change our biochemistry and re-engineer our bodies and minds...so that we shall need to re-engineer Homo Sapiens so that it can enjoy everlasting pleasure. Having raised humanity above the beastly level of survival struggles, we will now aim to upgrade humans into gods, and turn Homo Sapiens into Homo Deus.

TRANSHUMANISM

“The intellectual and cultural movement that affirms the possibility and desirability of fundamentally improving the human condition through applied reason, especially by developing and making widely available technologies to eliminate aging and to greatly enhance human intellectual, physical, and psychological capacities.”

NICK BOSTROM
OXFORD INSTITUTE FOR THE FUTURE



In us organic life has produced Mind. It has done its work. After that we want no more of it... Learn to make our brains live with less and less body: learn to build our bodies directly with chemicals, ... Learn how to reproduce ourselves without copulation.

C. S. LEWIS

That Hideous Strength: A Modern
Fairy-Tale for Grown-Ups

“We have paid some high prices for the technological conquest of nature, but none so high as the intellectual and spiritual costs of seeing nature as mere material for our manipulation, exploitation and transformation. With the powers of biological engineering gathering, there will be splendid new opportunities for similar degradation of our view of man...If we come to see ourselves as meat, then meat we shall become.”

LEON KASS

THE CONTROL PROBLEM

“For if we see the Genesis account of the Fall of man as foreshadowing of fears about robots, then Genesis gets the problem exactly right, for exactly the right reasons – it’s a worry about autonomy itself: what might robots do if we can’t control them fully? Will they adhere to the same value system as us? Will they decide to disobey us? What will our relationship with our creations be? We can thank the Hebrew account of Genesis for pre-warning us about this danger thousands of years ago”

PAULA BODDINGTON

“We can have zero confidence that the dominant intelligences a few centuries hence will have any emotional resonance with us – even though they may have an algorithmic understanding of the way we behaved”



LORD REES
UK ASTRONOMER ROYAL

AGI SCENARIOS

LIBERTARIAN UTOPIA Humans, cyborgs, uploads and superintelligences coexist peacefully

PROTECTOR GOD Essentially omniscient and omnipotent AI maximizes human happiness by intervening only in ways that preserve our feeling of control of our own destiny and hides well enough that many humans even doubt the AI's existence.

ENSLAVED GOD A superintelligent AI is confined by humans, who use it to produce unimaginable technology and wealth that can be used for good or bad depending on the human controllers.

CONQUERORS AI takes control, decides that humans are a threat, nuisance or waste of resources and gets rid of us by a method that we don't even understand.

THE OMEGA PROJECT

“For the first time ever our planet was run by a single power (called Prometheus) amplified by an intelligence so vast that it could potentially enable life to flourish for billions of years... throughout the cosmos – but what specifically was their plan?”

MAX TEGMARK

ECONOMIC CONTROL

With the excuse of fighting crime and terrorism and rescuing people suffering medical emergencies, everybody could be required to wear a “security bracelet” that combined the functionality of an Apple watch with continuous uploading of position, health status and conversations overheard. Unauthorized attempts to remove or disable it would cause it to inject a lethal toxin into the forearm...

Are we really in an unavoidable battle with an **AI monster** to stay alive? Listen to much of the debate and you could be forgiven for thinking so.

MAX TEGMARK

THE WILD MONSTER FROM THE SEA

And I saw a beast rising out of the sea, with ten horns and seven heads, with ten diadems on its horns and blasphemous names on its heads... and the whole earth marveled as they followed the beast. And they worshiped the dragon, for he had given his authority to the beast, and they worshiped the beast, saying, "Who is like the beast, and who can fight against it?"

REVELATION 13

THE WILD MONSTER FROM THE EARTH

Then I saw another beast rising out of the earth. It had two horns like a lamb and it spoke like a dragon. It exercises all the authority of the first beast in its presence and makes the earth and its inhabitants worship the first beast...

It deceives those who dwell on earth, telling them to make an image for the beast that was wounded by the sword and yet lived.

FORCED WORSHIP AND ECONOMIC CONTROL

And it was allowed to give breath to the image of the beast so that the image of the beast might even speak and might cause those who would not worship the image of the beast to be slain...also it causes all...to be marked on their right hand so that no one can buy or sell unless he has the mark that is the name of the beast of the number of its name

METAPHORS AND SYMBOLS REPRESENT REALITIES

This calls for wisdom: let the one who has understanding calculate the number of the beast for it is the number of a man, and his number is 666

A NEW AI RELIGION?

We are about to witness the birth of a new kind of religion. In the next few years, or perhaps even months, we will see the emergence of sects devoted to the worship of artificial intelligence.

For, certain AI systems are beginning to exhibit the kind of capacities usually ascribed to deity – such as immortality, omniscience, and omnipresence. These super AI's have prayer-like connectivity via the internet, the oracle like capacity of ChatGPT to give a plausible answer to virtually any question, produce life-advice and even 'scriptures' almost instantaneously. Nor do they have needs or desires like humans – only electricity!

NEIL MACARTHUR

Director of the Centre for Professional and Applied Ethics Montreal
University

HOMO DEUS FROM THE EARTH

“For that day will not come unless the rebellion comes first and the man of lawlessness is revealed, the son of destruction, who opposes and exalts himself against every so-called god or object of worship, so that he takes his seat in the temple of God, proclaiming himself to be God.... And then the lawless one will be revealed whom the Lord Jesus will kill with the breath of his mouth and bring to nothing by the appearance of his coming. The coming of the lawless one is by the activity of Satan with all power and false signs and wonders and...deception” 2 Thess 1.

**WHAT, THEN, IS A HUMAN
BEING?**

**WHAT IS THE VALUE OF A
HUMAN BEING?**

“The real problem of humanity is the following: we have palaeolithic emotions, medieval institutions, and god-like technology. And it is terrifically dangerous”. He continued: “Until we answer those huge questions of philosophy that the philosophers abandoned a couple of generations ago — Where do we come from? Who are we? Where are we going? — rationally, we’re on very thin ground”.

E.O. WILSON

THE WORLDVIEW PERSPECTIVE

“If we are to understand the nature of reality, we have only two possible starting points: either the brute fact of the physical world or the brute fact of a divine will and purpose behind that physical world”



**SIR JOHN
POLKINGHORNE
FRS**

” We humans are blobs of organized mud, which through the impersonal workings of nature’s patterns have developed the capacity to contemplate and cherish and engage with the intimidating complexity of the world around us... the meaning we find in life is not transcendent.

SEAN CARROLL

In the beginning God created the heavens and the earth” God made humans” in his own image.

GENESIS 1

“Humans may well use science to turn themselves into something like gods as they have imagined them to be. But no Supreme Being will appear on the scene. Instead, there will be many different gods, each of them a parody of human beings that once existed.”

JOHN GRAY

“You shall see the Son of Man sitting on the right hand of God and coming on the clouds of heaven.”

CHRIST’S CLAIM AT HIS TRIAL

Science takes things apart to see how they work. Religion puts them together to see what they mean.

LORD JONATHAN SACKS

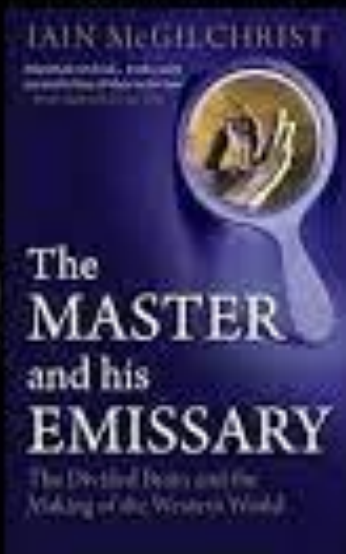


JOHN C. LENNOX



2084

ARTIFICIAL INTELLIGENCE AND
THE FUTURE OF HUMANITY



IAIN McGILCHRIST
THE MATTER
WITH THINGS

*Our Brains, Our Delusions,
and the Unmaking of the World*

VOLUME I: THE WAYS TO TRUTH • VOLUME II: WHAT THEN IS TRUE?

His central thesis is that although the left and right brain hemispheres are both involved in virtually all brain activity, there were nevertheless important differences that had radical implications for the history of our understanding of reality.

Each of the brain hemispheres pays attention to the world in a different way and therefore gives rise to a different kind of knowledge. The left takes apart to understand the 'whatness' of things and the right integrates to understand the 'whyness'.

“The prevailing dominant account of a meaningless, purely material cosmos, supplied by the reductionist strategy of the left hemisphere fails to make sense of value whether that be truth, goodness or beauty, just as it fails to make sense of consciousness... Beauty. Morality and truth have been devalued. If you want to see the consequences, you need do no more than look around you”

Iain McGilchrist