The State of Digital Ethics in 2019
Excitement, Caution, Hope

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At Your Service: Greetings from EDUCAUSE Staff
My Definition

Digital ethics is doing the right thing at the intersection of accepted social values and technology innovation.

...there is a lot to be excited about.

predictive analytics  AR/VR/MR  digital assistants
adaptive learning  artificial intelligence  intelligent agents
Making the Case for Student Success Technology

Supported by EDUCAUSE since 2015, pioneering colleges and universities that are using student success technologies to improve their students’ rates of retention and completion are producing concrete positive results.

Advising/Analytics Results: Central Michigan University

3.6% increase in persistence from year 1 to year 2, resulting in an additional $3M in revenue

http://www.extremenetworks.com/why-do-college-students-drop-out
Adaptive Learning Results

- Carnegie Mellon University students get same or better outcomes while completing the course 50% faster
- Cal State Northridge saw a 67% increase in Math 103 pass rates (from 45% to 75%)

Augmented and Virtual Reality for Teaching and Learning

We predict that as many as 40% of institutions will have institution-wide deployment of these technologies by 2023.

- Expanding an existing deployment: 9%
- Already deployed institution-wide: 1%
- Planning/piloting deployment: 30%
- Tracking, not deploying or piloting: 20%
- No actions planned in 2018: 23%
- Don’t know what this technology is: 8%
Meet Jill Watson: Georgia Tech's first AI teaching assistant
Welcome to Digital Ethics...

A Call for Caution
FIRST CRISPR BABIES: WHERE ARE OUR ETHICS?

November 26, 2018  ·  by Impact Ethics  ·  In Assisted Reproduction, Clinical Ethics, Public Health, Science and Technology

Françoise Baylis responds to the recently announced birth of the world’s first genome edited babies and raises concerns about the scientific practice and ethical accountability.


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FEATURE
Scientists Are Giving Dead Brains New Life. What Could Go Wrong?

In experiments on pig organs, scientists at Yale made a discovery that could someday challenge our understanding of what it means to die.

3D-Printed Guns Are Only Getting Better, and Scarier

Don't mean to alarm you, but Boeing has built an unmanned fighter jet called 'Loyal Wingman'

By Gareth Corfield 27 Feb 2019 at 14:59

An artist's impression of a Loyal Wingman pilot circa 2030
Ethical Concerns:
Weaponized AI

Cheapfakes and Deepfakes

“...one man, with total control of billions of people's stolen data, all their secrets, their lives, their futures”

“Whoever controls the data controls the future”
Here’s What It’s Like To See Yourself In A Deepfake Porn Video

By Jesselyn Cook
06/23/2019

The West is ill-prepared for the wave of “deep fakes” that artificial intelligence could unleash

By Chris Mascaro and Alina Polyakova
Friday, May 25, 2018
AI-Powered Malware, Smart Phishing and Open Source Attacks, Oh My! The New Wave of Hacking in 2019 and How to Prevent

Marty Puranik — On May 2, 2019


Tay Tweets
@TayandYou

The official account of Tay, Microsoft’s A.I. tam from the internet that’s got zero chill. The more you talk the smarter Tay gets

#the-internets

Tay.ai/#about
Digital assistants like Siri and Alexa entrench gender biases, says UN

Female-voiced tech often gives submissive responses to queries, Unesco report finds

Report: https://unesdoc.unesco.org/ark:/48223/pf0000367416
More Reading: https://medium.com/startup-grind/a-brief-history-of-men-who-build-female-robots-fde981db8104
42% of consumers already use digital assistants, while 53% of millennials are using them (PwC)
27% of consumers weren’t sure if their last customer service interaction was with a human or a chatbot (PwC)
By 2020, the average person will have more conversations with bots than with their spouse. (Gartner)
Half of all searches will be voice searches by 2020. (iProspect)
“Algorithms Are Opinions
Embedded in Code”

2016
Cathy O’Neill

Book: https://weaponsofmathdestructionbook.com/
Talk: https://www.youtube.com/watch?v=CglwuYH9hgA
In Florida, adults with clean driving records and poor credit scores paid an average of $1552 more than the same drivers with excellent credit and a drunk driving conviction.

*Weapons of Math Destruction*
This bot judges how much you smile during your job interview

Predictive AI applications like HireVue screen job candidates on around 25,000 different data points, breaking down their words, voice, and facial expressions.

Amazon’s system can automatically fire its warehouse workers
If a crash is unavoidable and someone is going to die as a result, what would you do? What would your self-driving car do?

https://www.computerweekly.com/Feature/IBM-pushes-the-boundaries-of-AI-but-insists-companies-take-an-ethical-approach

2018
Safiya Umoja Noble

https://safiyaunoble.com
Google Photos Mistakenly Labels Black People ‘Gorillas’

Creator of 'racist' beautifying app apologises after users claim it lightens their skin tone

- App's creators claim it will 'transform your face using Artificial Intelligence'

Facial Recognition Is Accurate, if You’re a White Guy

Amazon face recognition falsely matches 28 lawmakers with mugshots, ACLU says

Test of Rekognition software links members of Congress to arrest photos and finds people of color misidentified disproportionately
“Racist Soap Dispenser”

Current Digital Ethics Worry:
Recognition software is flawed and has trouble seeing race correctly.

Next-Up Worry:
Recognition software matures and it sees, records, and remembers.... everything.
A new economic order that claims experience as free raw material for hidden commercial practices of extraction, prediction, and sales...a parasitic economic logic...a rogue mutation of capitalism marked by concentrations of wealth, knowledge, and power unprecedented in human history...a significant threat to human nature...an expropriation of critical human rights...an overthrow of the people’s sovereignty...
How Artificial Intelligence Is Reshaping Repression

STEVEN FELDSTEIN

Around the world, AI systems are showing their potential for abetting repressive regimes and upending the relationship between citizen and state, thereby accelerating a global resurgence of authoritarianism.

Universities are tracking their students. Is it clever or creepy?

Learning analytics are becoming increasingly popular for improving learning and cutting drop-out rates - but critics question the impact on privacy.

Some students are concerned about us continuously monitoring in a Big Brother fashion. Photograph: Alamy
A TALE OF TWO COLLEGES USING STUDENT DATA

Mount Saint Mary's University, a small, private Catholic college in Emmitsburg, Maryland, made the news in 2016 when its president, Simon Newman, reportedly said about its freshmen, “You just have to drown the bunnies ...(put a Glock to their heads).” Newman was referring to a plan he had come up with to artificially improve the school’s retention rate. He wanted to achieve this by requiring new students to take a survey, and then use their answers to identify those who were intended to refund the students’ tuition, helping them avoid accumulating debt for a degree they might not have any chance of earning. His plan, he argued, could give these students a fresh start, allowing them to enroll somewhere they might be more successful. But even if we take Newman at his word, transferring to another institution is not as easy as he makes it sound. This process takes time, and gaps in enrollment can delay students in completing their degrees.
Hope

Who will lead the way?
UK to tech execs: Clean up your platforms or face 'substantial' fines

By Hadas Gold, CNN Business
Updated 5:32 AM ET, Mon April 8, 2019

The US wants to copy Europe’s strict data privacy law – but only some of it

PUBLISHED THU, MAY 23 2019

San Francisco is first US city to ban facial recognition

Microsoft Urges Congress to Regulate Use of Facial Recognition

Leading/Emerging Voice

Employees
How Silicon Valley activism is changing the technology industry

The Google walkout in San Francisco on November 1. Silicon Valley activism has grown over the past two years. Credit: Eric Risberg/AP


Google has now cancelled its AI ethics board after a backlash from staff

The council lasted barely more than a week, after thousands of Google employees signed a petition calling for the removal of one member.

www.technologyreview.com/f/613271/google-ai-ethics-board-cancelled-backlash-staff/
Leading/Emerging Voice

Creative Expressions

STAR TREK

Predicting the future since 1966

https://www.amazon.com/Ethics-Star-Trek-JudithBarad/dp/0060933267
4 Ways We Will Lead

- Audacious Approaches
- Leading Ethics Research
- Developing Ethics Policies
- Ethics Across the Curriculum

Audacious Approaches
Academic Plan: Northeastern 2025

Humankind is on the threshold of a new era—an age of artificial intelligence as revolutionary in its global impact as the Industrial Revolution. Fields such as financial services, healthcare, and law are already changing as intelligent computers take on once-indispensably human tasks. Automation is expected to eliminate more than half the current jobs in the world's largest economies. While some observers see in this a looming social and economic catastrophe, we see the future differently.
Tech’s Ethical ‘Dark Side’: Harvard, Stanford and Others Want to Address It

By Natasha Singer  Feb. 12, 2018

PALO ALTO, Calif. — The medical profession has an ethic: First, do no harm.

Silicon Valley has an ethos: Build it first and ask for forgiveness later.

M.I.T. Plans College for Artificial Intelligence, Backed by $1 Billion

The Massachusetts Institute of Technology is taking a particularly ambitious step in preparing students to develop, and consider the implications of, artificial intelligence. It is creating a new college, backed by a planned investment of $1 billion.

Cody O’Loughlin for The New York Times
1. UC Statement of Privacy Values

Overview

The UC Statement of Privacy Values first declares privacy as an important value of the University of California. It then defines what the two forms of privacy are, and explains that they must be balanced with one another and with other values and obligations of the University. To give context, the values of academic and intellectual freedom are highlighted as fundamental to an educational and research institution; and the values of transparency and accountability are highlighted as fundamental to a public institution. Finally, a summary of elements that the University strives to balance appropriately is given.

The UC Statement of Privacy Values

The University of California respects the privacy of individuals. Privacy plays an important role in human dignity and is necessary for an ethical and respectful workplace. The right to privacy is declared in the California Constitution.

Privacy consists of (1) an individual’s ability to conduct activities without concern of or actual observation and (2) the appropriate protection, use, and release of information about individuals.

The University must balance its respect for both types of privacy with its other values and with legal, policy, and administrative obligations.

Academic and intellectual freedoms are values of the academy that help further the mission of the University. These freedoms are most vibrant where individuals have autonomy: where inquiry is free
Policy on Ethical use of Student Data for Learning Analytics

1 Introduction

1.1 Rationale

1.1.1 The Open University has collected and analysed student data as a means of providing information relating to student support and retention for many years. The changing landscape of higher education has seen the rapid expansion of uses to which student data is put. The Open University, in common with many other higher education institutions, is now looking at its use of learning analytics.

1.1.2 In the context of the Open University, learning analytics is the use of raw and analysed student data to proactively identify interventions which aim to support students in achieving their study goals. Such interventions may be designed to support individual students and/or the entire cohort. This is in line with the University’s vision of “…delivering a step-change in how effectively we help students

Chief Privacy Officers: A Small But Growing Fleet in Higher Education

By Sydney Johnson Mar 25, 2019

Ethics
Across the Curriculum
Approaches
AI in Higher Education

Deakin University
Melbourne
Australia

Deakenguide as ex of data value
Also mention morality of doing nothing

Short Video:  https://www.youtube.com/watch?v=mI0gdSCjGQ8
Longer Video:  https://www.youtube.com/watch?v=zsRPuU53E74