CS 59866: Ethical, Legal, and Policy Issues in Technology and Cybersecurity: Reading List

# Class 1 – Course Introduction

* No Readings

# Class 2 – Introduction to Ethical Thinking

* [Ethics](https://iep.utm.edu/ethics/), Internet Encyclopedia of Philosophy
* [Should This Exist? The Ethics of New Technology](https://www.npr.org/2019/03/03/699797307/the-ethics-of-new-technology), NPR
* [Deep ethics: The long-term quest to decide right from wrong](https://www.bbc.com/future/article/20190617-deep-ethics-the-long-term-quest-to-decide-right-from-wrong), BBC

# Class 3 – The Trolley Car Problem

* [The Trolley Problem](https://people.brandeis.edu/~teuber/Trolley_Problem-PHIL_1A.pdf), Brandeis
* [Killing, Letting Die, and the Trolley Problem](https://learning.hccs.edu/faculty/david.poston/phil1301.80361/readings-for-march-31/JJ%20Thomson%20-%20Killing-%20Letting%20Die-%20and%20the%20Trolley%20Problem.pdf), Judith Jarvis Thompson
* [Why the Trolley Dilemma is a terrible model for trying to make self-driving cars safer](https://www.fastcompany.com/90308968/why-the-trolley-dilemma-is-a-terrible-model-for-trying-to-make-self-driving-cars-safer), Fast Company
* [The Moral Machine experiment](https://www.nature.com/articles/s41586-018-0637-6), Nature (available on Blackboard)
* [The “Moral Machine” Is Bad News for AI Ethics](https://mindmatters.ai/2020/03/the-moral-machine-is-bad-news-for-ai-ethics/), Mind Matters News

# Class 4 – Autonomous Weaponry

* [Ethics and autonomous weapon systems: An ethical basis for human control?](https://www.icrc.org/en/download/file/69961/icrc_ethics_and_autonomous_weapon_systems_report_3_april_2018.pdf), ICRC
* [Pros and Cons of Autonomous Weapons Systems](https://www.armyupress.army.mil/Journals/Military-Review/English-Edition-Archives/May-June-2017/Pros-and-Cons-of-Autonomous-Weapons-Systems/), Amitai Etzioni & Oren Etzioni
* [Autonomous Weapons: An Open Letter from AI & Robotics Researchers](https://futureoflife.org/2016/02/09/open-letter-autonomous-weapons-ai-robotics/?cn-reloaded=1), Future of Life Institute
* [Autonomous Weapon Systems and International](https://harvardnsj.org/2013/02/autonomous-weapon-systems-and-international-humanitarian-law-a-reply-to-the-critics/), Michael Schmitt
* [On banning autonomous weapon systems: human rights, automation, and the dehumanization of lethal decision-making](https://www.law.upenn.edu/live/files/3900-asaro-p-on-banning-autonomous-weapon-wystems-2012), Pete Asaro
* [AI Principles: Recommendations on the Ethical Use of Artificial Intelligence](https://media.defense.gov/2019/Oct/31/2002204458/-1/-1/0/DIB_AI_PRINCIPLES_PRIMARY_DOCUMENT.PDF), Defense Innovation Board

# Class 5 – Bias in Artificial Intelligence

* [Notes from the AI Frontier](https://www.mckinsey.com/~/media/mckinsey/featured%20insights/artificial%20intelligence/tackling%20bias%20in%20artificial%20intelligence%20and%20in%20humans/mgi-tackling-bias-in-ai-june-2019.pdf), McKinsey
* [This is how AI bias really happens—and why it’s so hard to fix](https://www.technologyreview.com/2019/02/04/137602/this-is-how-ai-bias-really-happensand-why-its-so-hard-to-fix/), Technology Review
* [AI Is Biased. Here's How Scientists Are Trying to Fix It](https://www.wired.com/story/ai-biased-how-scientists-trying-fix/), Wired
* [Artificial Intelligence Has a Problem With Gender and Racial Bias. Here’s How to Solve It](https://time.com/5520558/artificial-intelligence-racial-gender-bias/?amp=true), TIME
* [Millions of black people affected by racial bias in health-care algorithms](https://www.nature.com/articles/d41586-019-03228-6), Nature
* [Why algorithms can be racist and sexist](https://www.vox.com/platform/amp/recode/2020/2/18/21121286/algorithms-bias-discrimination-facial-recognition-transparency), Recode
* [How to Prevent Bias in Machine Learning](https://becominghuman.ai/how-to-prevent-bias-in-machine-learning-fbd9adf1198), Becoming Human
* [The Second Wave of Algorithmic Accountability](https://lpeproject.org/blog/the-second-wave-of-algorithmic-accountability/), The Law and Political Economy Project

# Class 6 – Criminal Liability in Cyberspace

* [Computer Fraud and Abuse Act](https://www.law.cornell.edu/uscode/text/18/1030)
* [Critical Fixes for the Computer Fraud and Abuse Act](https://www.eff.org/deeplinks/2013/01/these-are-critical-fixes-computer-fraud-and-abuse-act), EFF
* [The Computer Fraud and Abuse Act Hampers Security Research](https://www.eff.org/files/filenode/cfaa-security-researchers.pdf), EFF
* [Rebooting Computer Crime Law Part 2](https://www.eff.org/deeplinks/2013/02/rebooting-computer-crime-law-part-2-protect-tinkerers-security-researchers), EFF
* [The Supreme Court in Van Buren Decision Limits the Scope of the Computer Fraud and Abuse Act](https://www.natlawreview.com/article/supreme-court-van-buren-decision-limits-scope-computer-fraud-and-abuse-act), National Law Review

# Class 7 – Hacking Back

* [Active Cyber Defense Certainty Act](https://www.congress.gov/116/bills/hr3270/BILLS-116hr3270ih.pdf)
* [Hacking Back Is Ethical in the Cyber Frontier](https://www.cfr.org/blog/hacking-back-ethical-cyber-frontier), CFR
* [Forget About Law and Ethics -- Is Hacking Back Even Effective?](https://www.forbes.com/sites/patricklin/2016/09/26/forget-about-law-and-ethics-is-hacking-back-even-effective/?sh=1db380e647d8), Patrick Lin
* [Ethics of Hacking Back](http://ethics.calpoly.edu/hackingback.pdf), Patrick Lin
* [The Digital Vigilantes Who Hack Back](https://www.newyorker.com/magazine/2018/05/07/the-digital-vigilantes-who-hack-back), The New Yorker

# Class 8 – Privacy and Security

* [Apple v. FBI](https://epic.org/documents/apple-v-fbi-2/), EPIC
* [Report of the Manhattan District Attorney’s Office on Smartphone Encryption and Public Safety](https://www.manhattanda.org/wp-content/themes/dany/files/11.18.15%20Report%20on%20Smartphone%20Encryption%20and%20Public%20Safety.pdf)
* [A Message to Our Customers](https://www.apple.com/customer-letter/), Apple
* [This Apple-FBI Fight Is Different From the Last One](https://www.wired.com/story/apple-fbi-iphone-encryption-pensacola/), Lily Hay Newman
* [The FBI is working with Cellebrite to unlock San Bernardino iPhone, reports say](https://techcrunch.com/2016/03/23/fbi-is-working-with-cellebrite-to-unlock-san-bernardino-iphone-reports-say/?guccounter=1), Romain Dillet

# Class 9 – The Surveillance State

* [Surveillance Ethics](https://iep.utm.edu/surv-eth/), Internet Encyclopedia of Philosophy
* [Beyond Snowden: Introduction](https://www.brookings.edu/wp-content/uploads/2016/09/chapter-one_-beyond-snowden-9780815730644.pdf)
* [How China Is Using “Social Credit Scores” to Reward and Punish Its Citizens](https://time.com/collection/davos-2019/5502592/china-social-credit-score/), TIME
* [China's Surveillance State Should Scare Everyone](https://www.theatlantic.com/international/archive/2018/02/china-surveillance/552203/), The Atlantic
* [The Surveillance State Is a Reality](https://www.bloomberg.com/news/newsletters/2020-06-26/the-surveillance-state-is-a-reality), Bloomberg
* [Book Review: The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power by Shoshana Zuboff](https://blogs.lse.ac.uk/lsereviewofbooks/2019/11/04/book-review-the-age-of-surveillance-capitalism-the-fight-for-the-future-at-the-new-frontier-of-power-by-shoshana-zuboff/), London School of Economics

# Class 10 – Information Operations, Disinformation, and Censorship

* [Understanding Information Disorder](https://firstdraftnews.org/wp-content/uploads/2019/10/Information_Disorder_Digital_AW.pdf?x76701s-ix3b//firstdraftnews.org/wp-content/uploads/2019/10/Information_Disorder_Digital_AW.pdf?x76701), FirstDraft
* [The Deepfake Detection Challenge: Insights and Recommendations for AI and Media Integrity](http://partnershiponai.org/wp-content/uploads/2021/07/671004_Format-Report-for-PDF_031120-1.pdf), Partnership on AI
* [Information Operations: Joint Publication 3-13](https://www.jcs.mil/Portals/36/Documents/Doctrine/pubs/jp3_13.pdf) (Chapters 1 & 2), Joint Chiefs of Staff

# Class 11 – Net Neutrality and the Ownership of Internet Infrastructure

* [The WIRED Guide to Net Neutrality](https://www.wired.com/story/guide-net-neutrality/), Wired
* [Net Neutrality](https://www.eff.org/issues/net-neutrality), EFF
* [Net Neutrality and the Rule of Law](https://fedsoc.org/commentary/publications/net-neutrality-and-the-rule-of-law-1), Federalist Society
* [The Ethics of Net Neutrality](https://web.cs.ucdavis.edu/~rogaway/classes/188/fall11/p211.pdf), Alex Chung
* [How Facebook took over the internet in Africa – and changed everything](https://www.theguardian.com/technology/2022/jan/20/facebook-second-life-the-unstoppable-rise-of-the-tech-company-in-africa), The Guardian

# Class 12 – Automation and Creative Destruction in Tech

* [The ‘Netflix effect’: an excellent example of ‘creative destruction’](https://www.aei.org/carpe-diem/the-netflix-effect-is-an-excellent-example-of-creative-destruction/), AEI
* [Creative Destruction](https://www.econlib.org/library/Enc/CreativeDestruction.html), Econlib
* [Artificial Intelligence and Creative Destruction](https://www.christopherspenn.com/2018/02/artificial-intelligence-and-creative-destruction/), Christopher Penn
* [Fear of Artificial Intelligence vs. the Ethics and Art of Creative Destruction](https://www.wired.com/insights/2014/06/fear-artificial-intelligence-vs-ethics-art-creative-destruction/), Wired
* [Creative Destruction, Revisited: AI is an Unstoppable Force in the Capital Markets](http://www.opimas.com/research/307/detail/), Opimas
* [The Freedom Dividend, Defined](https://2020.yang2020.com/what-is-freedom-dividend-faq/#:~:text=The%20Freedom%20Dividend%20is%20a,or%20fulfill%20a%20work%20requirement.), Yang 2020

# Class 13 – Cyber Warfare

* [16th Air Force and Convergence for the Information War](https://cyberdefensereview.army.mil/CDR-Content/Articles/Article-View/Article/2288588/16th-air-force-and-convergence-for-the-information-war/), Cyber Defense Review
* [Is It Possible to Wage a Just Cyberwar?](https://www.theatlantic.com/technology/archive/2012/06/is-it-possible-to-wage-a-just-cyberwar/258106/), The Atlantic
* [A Guide to Cyber Attribution](https://www.dni.gov/files/CTIIC/documents/ODNI_A_Guide_to_Cyber_Attribution.pdf), ODNI
* [Cyber Espionage or Cyber War?: International Law, Domestic Law, and Self-Protective Measures](https://scholarship.law.upenn.edu/cgi/viewcontent.cgi?article=2541&context=faculty_scholarship), Christopher Yoo (skim)