Artificial Intelligence and Law

Casebook

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forthcoming 2024/2025 (with Margot Kaminski and Andrew Selbst) https://aila.ws for more info

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Marc Andreessen, Why AI Will Save the World,	
https://a16z.com/2023/06/06/ai-will-save-the-world/	1
Brian Christian, The Alignment Problem, Introduction	
Ruha Benjamin, Race After Technology, pp. 90-96	
Ryan Calo, Artificial Intelligence Policy: A Primer and Roadmap, 51 U.C. DAVIS L	
REV. 399, 404–10 (2017)	
Machine Learning 101: Good Old Fashioned AI	
R2D3 (Stephanie Yee and Tony Chu), A Visual Introduction to Machine Learning	j
1	
Andrew Glassner, Deep Learning: A Visual Approach, Excerpts from Chapters 1, 7, and 11	
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Faiz Siddiqui and Jeremy B. Merrill, 17 fatalities, 736 crashes: The shocking toll	
of Tesla's Autopilot, Washington Post, June 10, 2023,	
https://www.washingtonpost.com/technology/2023/06/10/tesla-autopilot-	
crashes-elon-musk/2	
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Grant v. Knepper, 245 N.Y. 158 (1927)2	
State v. Packin, 107 N.J.Super. 93 (1969)2	
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MacPherson v. Buick Motor Co., 217 N.Y. 382 (1916)2	
Restatement (Second) of Torts (1965)3	
Restatement (Third) of Torts: Prod. Liab. (1998)3	
F. Patrick Hubbard, "Sophisticated Robots": Balancing Liability, Regulation, and	
Innovation, 66 Fla. L. Rev. 1803, 1856 (2014)	4
Mark A. Geistfeld, A Roadmap for Autonomous Vehicles: State Tort Liability,	
Automobile Insurance, and Federal Safety Regulation, 105 Cal. L. Rev. 1611,	_
1634–35 (2017)	0
Gary E. Marchant & Rachel A. Lindor, The Coming Collision Between	
Autonomous Vehicles and the Liability System, 52 Santa Clara L. Rev. 1321,	
1333 (2012)	1
· · · · · · · · · · · · · · · · · · ·	2
Intelligence, 89 Wash. L. Rev. 117, 146–49 (2014)	
	4
Julia Angwin, Jeff Larson, Surya Mattu and Lauren Kirchner, ProPublica,	
Machine Bias: There's software used across the country to predict future criminals. And it's biased against blacks, May 23, 2016,	
https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal	
sentencing	
Jeff Larson, Surya Mattu, Lauren Kirchner and Julia Angwin, How We Analyzed	-
the COMPAS Recidivism Algorithm, May 23, 2016,	
https://www.propublica.org/article/how-we-analyzed-the-compas-recidivism-	
algorithm4	9
Deborah Hellman, Measuring Algorithmic Fairness, 106 Va. L. Rev. 811, 820	-
(2020)	5
Sandra G. Mayson, Bias in, Bias Out, 128 Yale L.J. 2218, 2233–34 (2019)	
Solon Barocas & Andrew D. Selbst, Big Data's Disparate Impact, 104 Cal. L. Rev.	
671, 677 (2016)7	

OPTIONAL Assignment: Arvind Narayanan, 21 fairness definitions and their	
politics, FAT* Conference Translation Tutorial 2018	
Bias and Discrimination: Algorithms in Employment under Title VII	′5
Jeffrey Dastin, Amazon scraps secret AI recruiting tool that showed bias agains	t
women, Reuters, October 10, 2018	
Civil Rights Act of 1984 § 701, 42 U.S. Code § 2000e – Definitions	
Civil Rights Act of 1984 § 703, 42 U.S.C. § 2000e-2(a) (2012)	
42 U.S. Code § 2000e–3 - Other unlawful employment practices	
Albemarle Paper Co. v. Moody, 422 U.S. 405, 408 (1975)	
Ricci v. DeStefano, 557 U.S. 557, 578–85, 129 S. Ct. 2658, 2673–77, 174 L. Ed.	
2d 490 (2009)	
Solon Barocas & Andrew D. Selbst, Big Data's Disparate Impact, 104 Cal. L. Rev	
671, 677 (2016)	
Pauline T. Kim, Data-Driven Discrimination at Work, 58 Wm. & Mary L. Rev. 85. 905 (2017)	
Deborah Hellman, Measuring Algorithmic Fairness, 106 Va. L. Rev. 811, 846 (2020)) 7
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Virginia Eubanks, Automating Inequality, Excerpt from Chapter 4: The Allegher	
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Houston Federation of Teachers v. Houston Independent School District, 251	
F.Supp.3d 1168 (S.D. Tex. 2017)10)9
T v. Bowling, 2016 WL 4870284 (S.D.W.V. 2016)	
Michael T. v. Crouch, 2018 WL 1513295 (S.D.W.V. 2018)	18
Danielle Keats Citron, Technological Due Process, 85 Wash. U.L. Rev. 1249, 130)5
(2008)	
Hannah Bloch-Wehba, Access to Algorithms, 88 Fordham L. Rev. 1265, 1293–9	
(2020)	
Margot E. Kaminski, Binary Governance: Lessons from the Gdpr's Approach to	
Algorithmic Accountability, 92 S. Cal. L. Rev. 1529, 1553–54 (2019)12	
ALGORITHMIC CRIME PREDICTION AND DETECTION	
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Ybarra v. Illinois, 444 U.S. 85, 87–89, 100 S. Ct. 338, 340–41, 62 L. Ed. 2d 238	
(1979)	
Maryland v. Pringle, 540 U.S. 366, 368–69, 124 S. Ct. 795, 798, 157 L. Ed. 2d 76	
(2003)	29
Laurence H. Tribe, Trial by Mathematics: Precision and Ritual in the Legal	
Process, 84 Harv. L. Rev. 1329, 1340–41 (1971)	
Jane Bambauer, Hassle, 113 Mich. L. Rev. 461, 462 (2015)	
Emily Berman, Individualized Suspicion in the Age of Big Data, 105 Iowa L. Rev.	
463, 478–82 (2020)	
Elizabeth E. Joh, Policing by Numbers: Big Data and the Fourth Amendment, 89	
Wash. L. Rev. 35, 56–58 (2014)	
The Analogy to Trained Narcotics Dog Sniffs Under the Fourth Amendmen	
United States v. Place, 462 U.S. 696, 697–99, 103 S. Ct. 2637, 2639–40, 77 L. Ed	
2d 110 (1983)	59
Illinois v. Caballes, 543 U.S. 405, 410–13, 125 S. Ct. 834, 838–40, 160 L. Ed. 2d 842 (2005)	11
Fla. v. Harris, 568 U.S. 237, 237–43, 133 S. Ct. 1050, 1053–55, 185 L. Ed. 2d 61	
(2013)	
Michael L. Rich, Machine Learning, Automated Suspicion Algorithms, and the	-2
Fourth Amendment, 164 U. Pa. L. Rev. 871, 911–23 (2016)	16
FACIAL RECOGNITION AND THE FIRST AMENDMENT	
Nlets – the International Justice and Public Safety Network, Privacy Impact	כּ
Assessment Report for the Utilization of Facial Recognition Technologies to	
Identify Subjects in the Field, June 30, 201114	19
, ,	_

Illinois Biometric Information Privacy Act (BIPA) of 2008, 740 ILCS 14 Am. Knights of Ku Klux Klan v. City of Goshen, Ind., 50 F. Supp. 2d 835, 836 (I Ind. 1999)	N.D.
Church of Am. Knights of the Ku Klux Klan v. Kerik, 356 F.3d 197, 199 (2d Cir. 2004)	167
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PRIVACY AND BIG DATA	
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Charles Duhigg, How Companies Learn Your Secrets, New York Times, Feb. 1 2012	171
The problem of inferring identity and definitions of "Personal Information	
Paul Ohm, Broken Promises of Privacy: Responding to the Surprising Failure	
Anonymization, 57 UCLA L. Rev. 1701, 1740 (2010)	
Michael Barbaro and Tom Zeller Jr., A Face Is Exposed for AOL Searcher No.	1,7
4417749, N.Y. Times, Aug. 9, 2006	177
Ryan Singel, Netflix Spilled Your Brokeback Mountain Secret, Lawsuit Claims,	
Wired, Dec. 17, 2009	
Health Information Portability and Accountability Act (HIPAA) Privacy Rule	1/0
(1996)(1996) (1996) (1996) (1996) (1996) (1996) (1996)	179
General Data Protection Regulation (GDPR): Recital 26	
Article 29 Data Protection Working Party, Opinion 05/2014 on Anonymisatio	
Techniques, 10 April 2014	
Datatilsynet (Danish Data Protection Authority), Supervision of Taxi 4x35's	
processing of personal data, 18-03-2019	184
U.S. Federal Trade Commission Report, Protecting Consumer Privacy in an El	
of Rapid Change, March 2012	
The problem of inferring sensitive information from non-sensitive	
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General Data Protection Regulation (GDPR) Article 9	
California Consumer Privacy Act (CCPA) (as amended by the California Privacy	
Rights Act (CPRA))	
Colorado Privacy Act (2021)	
Colorado Privacy Act Rules (2023)	
Alicia Solow-Niederman, Information Privacy and the Inference Economy, 11	
Nw. U. L. Rev. 357, 382–84 (2022)	
Daniel Solove, Data Is What Data Does: Regulating Based on Harm and Risk	
Instead of Sensitive Data, 118 NW. U. L. REV (forthcoming 2024)	191
Paul Ohm, Sensitivity Focused Privacy Laws (draft article)	
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Alicia Solow-Niederman, Information Privacy and the Inference Economy, 11	
Nw. U. L. Rev. 357, 382–84 (2022)	
Salomé Viljoen, A Relational Theory of Data Governance, 131 Yale L.J. 573, 6	
07 (2021)	
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Neural Networks: Technical Primer	
Doug Rose, Artificial Intelligence for Business, Chapters 12-14 (excerpts)	
YouTube Primers: 3 Blue 1 Brown	
Generative AI: Technical Primer: Large Language Models	
Timothy B. Lee and Sam Trott, Large language models, explained with a	_02
minimum of math and jargon, https://www.understandingai.org/p/large-	
language-models-explained-with	202
Jesse Vig, GPT-2: Understanding Language Generalization Through Visualizat	
March 5, 2019, https://towardsdatascience.com/openai-gpt-2-understandin	
language-generation-through-visualization-8252f683b2f8	
סממקט קטוופומוסוו נווויסמקוו אוסממוובענוסוו סבסבוסססטבוס	

Emily M. Bender, Timnit Gebru, Angelina McMillan-Major, and Shmargaret Shmitchell, On the Dangers of Stochastic Parrots: Can Language Models Be Too Big? In Conference on Fairness, Accountability, and Transparency (FAccT '21), March 3–10, 2021222
Samuel R. Bowman, Eight Things to Know about Large Language Models,
https://arxiv.org/abs/2304.00612225
OPTIONAL Video Explainers
Optional: A Gentler Take: Kyle Hill, ChatGPT Explained Completely,
https://www.youtube.com/watch?v=-4Oso9-9KTQ229
Optional: A slightly more technical take: Jay Alammar, The Narrated
Transformer Language Model, https://www.youtube.com/watch?v=-
QH8fRhgFHM
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James Vincent, OpenAl sued for defamation after ChatGPT fabricates legal
accusations against radio host, The Verge, June 9, 2023,
https://www.theverge.com/2023/6/9/23755057/openai-chatgpt-false-
information-defamation-lawsuit230
Restatement (Second) of Torts § 558 (1977)231
New York Times Co. v. Sullivan, 376 U.S. 254, 256, 84 S. Ct. 710, 713, 11 L. Ed.
2d 686 (1964)232
Toni M. Massaro, Helen Norton & Margot Kaminski, Siri-Ously 2.0: What
Artificial Intelligence Reveals About the First Amendment, 101 Minn. L. Rev.
2481, 2506–08 (2017)234
Eugene Volokh, Large Libel Models? Liability for Ai Output, 3 J. Free Speech L. 489, 514–18 (2023)235
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Winter v. G.P. Putnam's Sons, 938 F.2d 1033, 1033–34 (9th Cir. 1991)
Samantha Cole, 'Life or Death:' Al-Generated Mushroom Foraging Books Are All
Over Amazon, 404Media, https://www.404media.co/ai-generated-mushroom-
foraging-books-amazon/242
Jane Bambauer, Negligent Al Speech: Some Thoughts About Duty, 3 J. Free
Speech L. 343, 348–58 (2023)243
Nina Brown, Bots Behaving Badly: A Products Liability Approach to Chatbot-
Generated Defamation, 3 J. Free Speech L. 389, 410–14 (2023)249
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Thaler v. Perlmutter, No. CV 22-1564 (BAH), 2023 WL 5333236, at *1 (D.D.C.
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James Grimmelmann, Internet Law: Cases & Problems, Chapter 7: Copyright,
pp. 415-427 (13th Ed.)261
James Grimmelmann, There's No Such Thing As A Computer-Authored Work-
and It's A Good Thing, Too, 39 Colum. J.L. & Arts 403, 408–09 (2016)262
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Complaint, Class Action, and Demand for Jury Trial, Sarah Anderson v. Stability
AI, Ltd., Complaint, No. 23-CV-00201 (N.D. Cal. Jan. 13, 2023), available at
https://www.courtlistener.com/docket/66732129/andersen-v-stability-ai-ltd/
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Authors Guild, Inc. v. HathiTrust, 755 F.3d 87, 90–92 (2d Cir. 2014)273
Authors Guild v. Google, Inc., 804 F.3d 202, 206–07 (2d Cir. 2015)279
A.V. ex rel. Vanderhye v. iParadigms, LLC, 562 F.3d 630, 633 (4th Cir. 2009) 285
A Note on Factor One of Fair Use and the Supreme Court: Campbell, Oracle,
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Algorithms and Financial Regulation
In re Barclays Liquidity Cross & High Frequency Trading Litig., 126 F. Supp. 3d
342, 347 (S.D.N.Y. 2015), vacated and remanded sub nom. City of Providence,
Rhode Island v. Bats Glob. Markets, Inc., 878 F.3d 36 (2d Cir. 2017)
υπιτεά States v. Coscia. δρό F.3α 7δ2. 7δ5 (7th Cir. 2017)

	Robin Feldman & Kara Stein, Al Governance in the Financial Industry, 27 Star	٦.
	J.L. Bus. & Fin. 94, 112–17 (2022)	
	Gina-Gail S. Fletcher, Deterring Algorithmic Manipulation, 74 Vand. L. Rev. 25	
	296–99 (2021)	
	Yavar Bathaee, The Artificial Intelligence Black Box and the Failure of Intent a	
	Causation, 31 Harv. J.L. & Tech. 889, 911–14 (2018)	
	MEDICAL MALPRACTICE	
	Medical Malpractice Standards of Care	
	Restatement (Second) of Torts (1965)	318
	Wells v. Ferry-Baker Lumber Co., 57 Wash. 658, 658–62, 107 P. 869, 869–70	
	(1910)	
	Lippold v. Kidd, 126 Or. 160, 161–62, 269 P. 210, 211 (1928)	
	Gonzales v. Peterson, 57 Wash. 2d 676, 681–83, 359 P.2d 307, 310–11 (1961)	-
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	A. Michael Froomkin et. al., When Ais Outperform Doctors: Confronting the	
	Challenges of A Tort-Induced over-Reliance on Machine Learning, 61 Ariz. L.	224
	Rev. 33, 59–60 (2019)	
	Hurley v. Kirk, 2017 OK 55, 398 P.3d 7, 8	
	Perna v. Pirozzi, 92 N.J. 446, 449, 457 A.2d 431, 432 (1983)	
	I. Glenn Cohen, Informed Consent and Medical Artificial Intelligence: What to	
	Tell the Patient?, 108 Geo. L.J. 1425, 1444–49 (2020)	
	Prompt Engineering	
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Cat Zakrzewski, FTC investigates OpenAl over data leak and ChatGPT's inaccuracy, Washington Post, July 13, 2023,	
https://www.washingtonpost.com/technology/2023/07/13/ftc-openai-c	
sam-altman-lina-khan/	
FTC, Civil Investigative Demand, Washington Post	
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EU Article 29 Data Protection Working Party, Guidelines on Automated	
individual decision-making and Profiling for the purposes of Regulation	
2016/679, 3 October 2017 (Revised 6 February 2018)	
Colorado Privacy Act	
Colorado Department of Law, Colorado Privacy Act Rules, 4 CCR 904-3	
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JOINT STATEMENT ON ENFORCEMENT EFFORTS AGAINST DISCRIMINATION	
BIAS IN AUTOMATED SYSTEMS, April 25, 2023	
Michael Atleson, Attorney, FTC Division of Advertising Practices, Keep yo	
claims in check, https://www.ftc.gov/business-guidance/blog/2023/02/	-
your-ai-claims-check	383
Andrew D. Selbst & Solon Barocas, Unfair Artificial Intelligence: How Ftc	
Intervention Can Overcome the Limitations of Discrimination Law, 171 U	
Rev. 1023, 1026 (2023)	
Adam Thierer, The FTC Looks to Become the Federal AI Commission, July	
2023, https://medium.com/@AdamThierer/the-ftc-looks-to-become-the	
federal-ai-commission-15db44e35ace	
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Margot E. Kaminski, Regulating the Risks of Al, 103 B.U.L. Rev. 101 (forth	
2023), https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4195066	
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European Union, Al Act, European Commission April 2021 Proposal,	
https://eur-lex.europa.eu/legal-	
content/EN/TXT/HTML/?uri=CELEX:52021PC0206	393
European Parliament, DRAFT Compromise Amendments, 16/5/2023,	
https://www.europarl.europa.eu/resources/library/media/20230516RE	
/20230516RES90302.pdf	
Al Risk Assessment Frameworks and Approaches	
National Inst. of Standards and Technology (NIST) Artificial Intelligence F	
Management Framework (AI RMF 1.0)	406
Government of Canada, Algorithmic Impact Assessment Tool,	:a_1
https://www.canada.ca/en/government/system/digital-government/dig	itai-
government-innovations/responsible-use-ai/algorithmic-impact-	412
assessment.html	
from link at https://aia.guide/	
Ellen P. Goodman & Julia Trehu, Algorithmic Auditing: Chasing Ai Accour	
39 Santa Clara High Tech. L.J. 289, 302–06 (2023)	
Washington DC, Bill: Stop Discrimination by Algorithms Act of 2021	
THE RIGHT TO A HUMAN-IN-THE-LOOP	
Laws Requiring a Human-in-the-Loop	
·	
U.N. Convention on Road Traffic art. 8, Sept. 19, 1949 European Union, Al Act, April 2021 Proposal, https://eur-lex.europa.eu/	
content/EN/TXT/HTML/?uri=CELEX:52021PC0206	
Justifications and Efficacy for a Human-in-the-Loop requirement Ben Green, The Flaws of Policies Requiring Human Oversight of Government.	
Algorithms, 45 Computer Law & Security Review (2022)	
Algorithms, 45 computer Law & Security neview (2022)	430

Rebecca Crootof, Margot Kaminski & Nicholson Price, Humans in the Loop, 76
Vand. L. Rev. 429, 460–61 (2023)43
Kiel Brennan-Marquez, Stephen E. Henderson, Artificial Intelligence and Role-
Reversible Judgment, 109 J. Crim. L. & Criminology 137, 149–52 (2019) 43
The Right to Explanation44
Equal Credit Opportunity Act (ECOA), 15 U.S. Code § 1691 - Scope of prohibitio
Andrew D. Selbst & Solon Barocas, The Intuitive Appeal of Explainable Machines, 87 Fordham L. Rev. 1085, 1109–17 (2018)44
Margot E. Kaminski, The Right to Explanation, Explained, 34 Berkeley Tech. L.J.
189, 209–17 (2019)
Licensure and Justification
Pew, Issue Brief: How FDA Regulates Artificial Intelligence in Medical Products,
August 5, 2021, https://www.pewtrusts.org/en/research-and-analysis/issue-briefs/2021/08/how-fda-regulates-artificial-intelligence-in-medical-products
44
Gianclaudio Malgieri and Frank Pasquale, Licensing high-risk artificial
intelligence: Toward ex ante justification for a disruptive technology, 52 Computer Law & Security Review (2024),
https://www.sciencedirect.com/science/article/pii/S0267364923001097 44
AI in China
Chinese AI Regulation
Matt Sheehan, Carnegie Endowment for International Peace, China's Al
Governance and How They Get Made, July 2023,
https://carnegieendowment.org/2023/07/10/china-s-ai-regulations-and-how-they-get-made-pub-9011745
, -
The Social Credit Scoring System in China
Xin Dai, Toward a Reputation State: The Social Credit System Project of China,
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=319357745
Kevin Werbach, Orwell That Ends Well? Social Credit as Regulation for the
Algorithmic Age, 2022 U. III. L. Rev. 1417
US Restrictions on Flow of AI Technology to China
Emily S. Weinstein & Kevin Wolf, CSET, For Export Controls on AI, Don't Forget the "Catch-All" Basics46
Gregory C. Allen, CSIS, Choking off China's Access to the Future of Al, Oct. 11,
2022, https://www.csis.org/analysis/choking-chinas-access-future-ai 46
AI & the International Law of Human Rights47
United Nations, Universal Declaration of Human Rights (1948)47
Raso, Filippo, Hannah Hilligoss, Vivek Krishnamurthy, Christopher Bavitz, and
Kim Levin. 2018. Artificial Intelligence & Human Rights: Opportunities & Risks.
Berkman Klein Center for Internet & Society Research Publication,
http://nrs.harvard.edu/urn-3:HUL.InstRepos:3802143947
Vinodkumar Prabhakaran, Margaret Mitchell, Timnit Gebru & Iason Gabriel, A
Human Rights-Based Approach to Responsible AI, 2022 ACM Conference on
Equity and Access in Algorithms, Mechanisms, and Optimization or (EAAMO
'22), https://arxiv.org/abs/2210.0266748
Anthropic, Claude's Constitution, May 9, 2023,
https://www.anthropic.com/index/claudes-constitution48
AGI, ALIGNMENT, AND SAFETY49
David Streitfeld, Silicon Valley Confronts the Idea That the 'Singularity' Is Here, N.Y. Times, June 11, 202349
OUPBlog: Interview: Nick Bostrom on Artificial Intelligence49
Center for Al Safety, Al Extinction Statement: Press Release, May 30, 2023,
https://www.safe.ai/press-release
Nate Soares, Safety engineering, target selection, and alignment theory,
Machine Intelligence Research Institute, Dec. 31, 201549
Aaron J. Snoswell, What is 'Al alignment'? Silicon Valley's favourite way to think
about AI safety misses the real issues, July 11, 2023,