Literature for SIMS40, AI in Society applies from autumn semester 2020

Literature established by Graduate School Board on 2020-06-05 to apply from 2020-08-31

See appendix.

Anderson, Susan Leigh (2008). “Asimov’s ‘three laws of robotics’ and machine metaethics”, *AI & Society*, 22(4), 477-493.

Arcas, Balise Agüera y (2018). ”Do algorithms reveal sexual orientation or just expose our stereotypes?”, *Medium* January 18. https://medium.com/@blaisea/do-algorithms-reveal-sexual-orientation-or-just-expose-our-stereotypes-d998fafdf477. (16 pp.)

Atzori, Marcella (2017). “Blockchain technology and decentralized governance: Is the state still necessary?”, *Journal of Governance and Regulation* 6(1): 45–62.

Barfield, Woodrow & Ugo Pagallo (eds.) (2018) *Research Handbook on the Law of Artificial Intelligence,* Edward Elgar Publishing Limited, Cheltenham 2018. Selection ca 150 pp. (Karnow; Shimpo; Weng + student’s own choice)

Barratt, Daniel, Anna Cabak Rédei, Åse Innes-Ker, & Joost van de Weijer, J. (2016). “Does the Kuleshov Effect Really Exist? Revisiting a Classic Film Experiment on Facial Expressions and Emotional Contexts”, *Perception* 45(8): 847–874. https://doi.org/10.1177/0301006616638595

Belpaeme, Tony, James Kennedy, Aditi Ramachandran, Brian Scassellati, & Fumihide Tanaka (2018). ”Social robots for education: A review”, *Science Robotics*, 3(21), l–9.

Bostrom, Nick (2014). *Superintelligence: Paths, Dangers, Strategies.* Oxford University Press. ISBN: 9780198739838. (328 pp.)

Breazeal, Cynthia (1999). ”Robot in society: Friend or appliance”, *Proceedings of the 1999 Autonomous Agents Workshop on Emotion-Based Agent Architectures* (pp. 18–26).

Bryson, Joanna J. (2010). ”Robots should be slaves” in Yorick Wilks (ed.) *Close Engagements with Artificial Companions: Key social, psychological, ethical and design issues* (pp. 63–74). Amsterdam: John Benjamins. https://doi.org/10.1075/nlp.8.11bry

Bucher, Tania (2018). *Algorithmic Power and Politics*. Oxford Scholarship Online. 200 pp. Selection ca 100 pp. Ch. 1, Ch. 2, Ch. 4, Ch. 5, Ch. 7. [Available online]

Chen, Chaona, Laura B. Hensel, Yaocong Duan, Robin A. A. Ince, Oliver G. B. Garrod, Jonas Beskow, Rachael E. Jack, & Philippe G. Schyns (2019). “Equipping social robots with culturally-sensitive facial expressions of emotion using data-driven methods”, *2019 14th IEEE International Conference on Automatic Face & Gesture Recognition* (FG 2019), 1–8. https://doi.org/10.1109/FG.2019.8756570

Coeckelbergh, Mark (2010). ”Robot rights? Towards a social-relational justification of moral consideration”, *Ethics and information technology,* 12(3), 209–221.

Collins, Brian J., Jose Marichal & Richard Neve (2020). ”The social media commons: Public sphere, agonism, and algorithmic obligation”, *Journal of Information Technology & Politics* April 2020, 17 pp. https://doi.org/10.1080/19331681.2020.1742266

Crivelli, Carlos & Alan J. Fridlund (2018). “Facial Displays Are Tools for Social Influence”, *Trends in Cognitive Sciences* 22(5): 388–399. https://doi.org/10.1016/j.tics.2018.02.006

Dahl, Robert A. (1989). *Democracy and Its Critics*. New Haven: Yale University Press. Selection 42 pp: Ch. 3, 4, 5. [Available online]

Dahlgren, Peter (2005). ”The Internet, Public Spheres, and Political Communication: Dispersion and Deliberation”, *Political Communication* 22(2): 147–162. https://doi.org/10.1080/10584600590933160

Dautenhahn, Kerstin (2007). ”Socially intelligent robots: dimensions of human–robot interaction”, *Philosophical transactions of the royal society B: Biological sciences*, 362(1480), 679–704.

Diamond, Larry (2019). “The Threat of Postmodern Totalitarianism”, *Journal of Democracy* 30(1): 20–24.

Dignum,Virginia (2019). *Responsible Artificial Intelligence: How to Develop and Use AI in a Responsible Way*. Springer. 127 pp. [Available online]

D’Mello, Sideney, Arvid Kappas, & Jonathan Gratch, J. (2018). “The Affective Computing Approach to Affect Measurement”, *Emotion Review* 10(2): 174–183.

Docherty, Iain, Greg Marsden & Jillian Anable (2018). “The governance of smart mobility”, *Transportation Research Part A: Policy and Practi*ce, 115, 114–125. http://doi.org/https://doi.org/10.1016/j.tra.2017.09.012

Ekman, Paul & Wallace V. Friesen (1971). ”Constants across cultures in the face and emotion”, *Journal of Personality and Social Psychology* 17(2): 124–129. https://doi.org/10.1037/h0030377

Ekman, Paul (1992). “Are there basic emotions?”, *Psychological Review* 99(3): 550–553. http://ludwig.lub.lu.se/login?url=https://search.ebscohost.com/login.aspx?direct=true&AuthType=ip,uid&db=psyh&AN=1992-41830-001&site=ehost-live

Ekman, Paul (1994). “Strong-Evidence-For-Universal-In-Facial-Expression: A Reply to Russell’s mistaken critique”, *Psychological Bulletin* 115(2): 268–287. https://doi.org/10.1037/0033-2909.115.2.268

Ellsworth, Phoebe C. (2013). “Basic Emotions and the Rocks of New Hampshire”, *Emotion Review* 6(1): 21–26. https://doi.org/10.1177/1754073913494897

EU Commission (2020). *White Paper on Artificial Intelligence. A European approach to excellence and trust*. COM(2020) 65 final. 26 pp. https://ec.europa.eu/info/sites/info/files/commission-white-paper-artificial-intelligence-feb2020_en.pdf

Evans, Joshua (2016). “Trials and tribulations: Problematizing the city through/as urban experimentation”, *Geography Compass*, *10*(10), 429–443. doi: 10.1111/gec3.12280

Feldman Barrett, Lisa, Ralph Adolphs, Stacy Marsella, Aleix M. Martinez, Seth D. Pollak (2019). “Emotional expressions reconsidered: Challenges to inferring emotion from human facial movements”, Psychological Science in the Public Interest 20: 1–68.

Ferrando, Francesca (2014). ”Is the Post-Human a Post-Woman?”, *European Journal of Futures Research* 2(43): 2–43.

Firth-Godbehere, Rich (2018). “Silicon Valley thinks everyone feels the same six emotions”, *NEXT* September 5. https://howwegettonext.com/silicon-valley-thinks-everyone-feels-the-same-six-emotions-38354a0ef3d7 ca 14 pp

Firth-Godbehere, Rich (2018). “Emotion science keeps getting more complicated. Can AI Keep Up?”, *NEXT* November 28. https://howwegettonext.com/emotion-science-keeps-getting-more-complicated-can-ai-keep-up-442c19133085 ca 8 pp

Floridi, Luciano, Josh Cowls, Monica Beltrametti, Raja Chatila, Patrice Chazerand, Virginia Dignum, Christoph Luetge, Robert Madelin, Ugo Pagallo, Francesca Rossi, Burkhard Schafer, Peggy Valcke & Effy Vayena (2018). ”AI4People—An Ethical Framework for a Good AI Society: Opportunities, Risks, Principles, and Recommendations”, *Minds and Machines*, 28(4), 689–707. https://doi.org/10.1007/s11023-018-9482-5

Frank, Robert H. (2011). “The Strategic Role of the Emotions”, *Emotion Review* 3(3): 252–254. https://doi.org/10.1177/1754073911402375

Haraway, Donna J. (1991). *Simians, Cyborgs, and Women.* New York: Routledge. (Part One & Part Three). ISBN: 1853431397, 1853431389, 9781853431395. 160 pp. https://monoskop.org/images/f/f3/Haraway_Donna_J_Simians_Cyborgs_and_Women_The_Reinvention_of_Nature.pdf

Hedlund, Maria & Erik Persson (forthcoming). “The future of AI development, safety, and democracy – a question of forward-looking responsibility” in *Humans Meet AI*, Springer, ca 20 pp.

Helmon, Anne (2015). ”The Platformization of the Web: Making Web Data Platform Ready”, *Social Media & Society* 1(2): 1–11.

Hopkins, Debbie & Tim Schwanen (2018) “Automated Mobility Transitions: Governing Processes in the UK”, *Sustainability 10*(4): 1–19. https://doi.org/10.3390/su10040956

Hydén, Håkan (2020). “AI, Norms, Big Data and Law”, *Asian Journal of Law and Society* (forthcoming). (ca 30 pp.)

Hydén, Håkan (2015). “Towards a Theory of Law and Societal Development”, *Scandinavian Studies in Law* 60: 443–473.

Hydén, Håkan (book manuscript). *Sociology of Law as Norm Science*, ch. 1. (ca 40 pp.)

Hydén, Håkan & Måns Svensson (2008). “The Concept of Norms in Sociology of Law”, *Scandinavian Studies in Law* 53: 15–32.

Jack, Rachael E., Oliver G. B. Garrod, Hui Yu, Roberto Caldara, & Philippe G. Schyns (2012). “Facial expressions of emotion are not culturally universal”, *Proceedings of the National Academy of Sciences* 109(19): 7241–7244. https://doi.org/10.1073/pnas.1200155109

Jobin, Anna, Marcello Ieneca & Effy Vayena (2019). "The global landscape of AI ethics guidelines", *Nature Machine Intelligence* 1(9): 389–399.

Kronsell, Annica & Dalia Mukhtar-Landgren (2018) "Experimental governance: the role of municipalities in urban living labs", *European Planning Studies 26*(5), 988–1007. https://doi.org/10.1080/09654313.2018.1435631

Landis, Carney (1924). "Studies of emotional reactions", *Journal of Experimental Psychology* 7(5): 325–341. https://content.ebscohost.com/ContentServer.asp?T=P&P=AN&K=1926-08202-001&S=L&D=pdh&EbscoContent=dGJyMNXb4kSeprY4v%2BbwOLCmsEieprNSrq64SrSWxWXS&ContentCustomer=dGJyMPGpt0mwqrBRuePfgeyx43zx

Larsson, Stefan (2019). "The Socio-Legal Relevance of Artificial Intelligence." *Droit et Société*, 103(3): 573–593. Special issue "Le droit à l'épreuve des algorithmes", ed. by Dubois C. & Schoenaers F.

Larsson, Stefan & Fredrik Heintz (2020). "Transparency in Artificial Intelligence." *Internet Policy Review* 9(2): 1–16. https://policyreview.info/node/1469/pdf

Latzer, Michael & Natascha Just (2020). "Governance by and of Algorithms on the Internet: Impact and Consequences", *Oxford Research Encyclopedia, Communication.* DOI: 10.1093/acrefore/9780190228613.013.904. (21 pp.)

Leavy, Susan (2018). "Gender Bias in Artificial Intelligence: The Need for Diversity and Gender Theory in Machine Learning." *GE '18: Proceedings of the 1st International Workshop on Gender Equality in Software Engineering*, pp. 14–16. https://doi.org/10.1145/3195570.3195580

Lyons, Glenn (2018). "Getting smart about urban mobility-aligning the paradigms of smart and Sustainable", *Transportation Research Part A: Policy and Practice* 115: 4–14.

Manders, T.N. Wieczorek, A.J. & Verbong, G.P.J. (2018) "Understanding smart mobility experiments in the Dutch automobility system: Who is involved and what do they promise?", *Futures* 96: 90–103.

Maroti, Christine (2019). "Gender Bias in AI: Building Fairer Algorithms." *Artificial Intelligence,* September 17. https://unbabel.com/blog/gender-bias-artificial-intelligence/ (ca 6 pp.)

Martin, Jared, Magdalena Rychlowska, Adrienne Wood & Paula Niedenthal (2017). "Smiles as Multipurpose Social Signals", *Trends in Cognitive Sciences* 21(11): 864–877. https://doi.org/10.1016/j.tics.2017.08.007

Mukhtar-Landgren, Dalia & Alexander Paulsson (2020) Governing smart mobility: policy instrumentation, technological utopianism and the administrative quest for knowledge i *Administrative Theory and Praxis* (accepted for publication, forthcoming).

Mukhtar-Landgren, Dalia, Annica Kronsell, Yuliya Voytenko, & Timo von Wirth (2019) "Municipalities as Enablers in Urban Experimentation", *Journal of Environmental Policy & Planning* 21(6): 718–733. https://doi.org/10.1080/1523908X.2019.1672525

Mumm, Jonathan & Bilge Mutlu (2011). ”Human-robot proxemics: physical and psychological distancing in human-robot interaction”, *Proceedings of the 6th international conference on Human-robot interaction* (pp. 331–338). ACM.

Nagenborg, Michael, Rafael Capurro, Jutta Weber & Christoph Pingel (2008). ”Ethical regulations on robotics in Europé”, *AI & Society*, 22(3), 349–366.

Ogawa, Kohei, Christoph Bartneck, Daisuke Sakamoto, Takayuki Kanda, Tetsuo Ono, & Hiroshi Ishiguro (2009). ”Can An Android Persuade You?”, *Proceedings of the 18th IEEE International Symposium on Robot and Human Interactive Communication, RO-MAN2009*, Toyama (pp. 553–557). IEEE. doi: 10.1109/ROMAN.2009.5326352

Osgood, Charles E. (1966). “Dimensionality of the Semantic Space for Communication Via Facial Expressions”, *Scandinavian Journal of Psychology* 7(1), 1–30. https://doi.org/10.1111/j.1467-9450.1966.tb01334.x

Preto, Sara (2019). “Emotion-reading algorithms cannot predict intentions via facial expressions”. *Greot* September 5: https://greot.com/2019/09/05/emotion-reading-algorithms-cannot-predict-intentions-via-facial-expressions/ ca 3 pp

Russell, James A. (1994). “Is there universal recognition of emotion from facial expression? A review of the cross-cultural studies”, *Psychological Bulletin* 115(1): 102–141. https://doi.org/10.1037/0033-2909.115.1.102

Rychlowska, Magdalena, Yuri Miyamoto, David Matsumoto, Ursula Hess, Eva Gilboa-Schechtman, Shanmukh Kamble, Hamdi Muluk, Takahiko Masuda & Paula Marie Niedenthal (2015). “Heterogeneity of long-history migration explains cultural differences in reports of emotional expressivity and the functions of smiles”, *Proceedings of the National Academy of Sciences* 112(19): E2429–E2436. https://doi.org/10.1073/pnas.1413661112

Salvini, Pericle, Cecilia Laschi & Paolo Dario (2010). ”Design for acceptability: improving robots’ coexistence in human society”, *International journal of social robotics*, 2(4), 451–460.

Sandoval, Eduardo Benitez, Omar Mubin & Mohammad Obaid (2014). ”Human robot interaction and fiction: A contradiction”, *International Conference on Social Robotics* (pp. 54–63). Springer, Cham.

Schlosberg, Harold (1952). “The description of facial expressions in terms of two dimensions”, *Journal of Experimental Psychology* 44(4): 229–237. https://doi.org/10.1037/h0055778

Sharkey, Noel & Amanda Jane Sharkey (2010). ”The crying shame of robot nannies: an ethical appraisal”, *Interaction Studies*, 11(2), 161–190.

Sharkey, Noel & Amanda Jane Sharkey (2011). ”The rights and wrongs of robot care” in Patrick Lin, Keith Abney and George A. Bekey (eds.) *Robot ethics: The ethical and social implications of robotics* (Ch 17), 267–282. MIT Press.

Smith, David Harris & Frauke Zeller (2016). ”The Death and Lives of hitchBOT: The Design and Implementation of a Hitchhiking Robot”, *Leonardo* 50(3): 77–78.

Solaiman, S. M. (2017) ”Legal personality of robots, corporations, idols and chimpanzees: a quest for legitimacy”, *Artificial Intelligence and Law,* 25 (2), 155–179.

Sprei, Frances (2018). ”Disruptive Mobility”, *Energy Reserach & Social Science* 37: 238–242.

Stahl, Titus (2016). ”Indiscriminate mass surveillance and the public sphere”, *Ethics and Information Technology* 18(1): 33–39.

The High-Level Expert Group on Artificial Intelligence (2019) *Ethics Guidelines for Trustworthy AI*. 40 pp. https://ec.europa.eu/futurium/en/ai-alliance-consultation

The High-Level Expert Group on Artificial Intelligence (2019) *Policy and Investment Recommendations for Trustworthy Artificial Intelligence*. 50 pp. https://www.europarl.europa.eu/cmsdata/196378/AI%20HLEG_Policy%20and%20Investment%20Recommendations.pdf

Turing, Alan Mathison (1950) ”Computing Machinery and Intelligence”, *Mind,* 49: 433–460.

van Dijck, José, Thomas Poell & Martin de Waal (2018). *The Platform Society: Public Values in a Connective World*. Oxford: Oxford University Press. ISBN 9780190889777. 226 pp. Selection ca 100 pp.: ch. 1, ch. 2, ch. 3, ch. 7.

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