

REFERENCES

References

- Abascal, J. N. (2005). Moving towards inclusive design guidelines for socially and ethically aware HCI. *Interacting with Computers*, 17, 484–505.
- Abbott, R., & Bogenschneider, B. (2018). Should Robots Pay Taxes: Tax Policy in the Age of Automation. *Harvard Law & Policy Review*, 12(1), 145–175.
- Acemoglu, D., & Restrepo, P. (2018a). The Race Between Machine and Man: Implications of Technology for Growth, Factor Shares and Employment. *American Economic Review*, 108(6), 1488-1542.
- (2018b). *Artificial Intelligence, Automation and Work* (NBER Working Paper 24196, 2018). Retrieved from <https://www.nber.org/papers/w24196>.
- Adam, A. 2005. Gender, Ethics and Information Technology. Berlin: Springer.
- Adidas's high-tech factory brings production back to Germany*. (2017, January 14). Retrieved from <https://www.economist.com/business/2017/01/14/adidass-high-tech-factory-brings-production-back-to-germany>.
- Afuah, A. (2001). Dynamic boundaries of the firm: are firms better off being vertically integrated in the face of a technological change? *The Academy of Management Journal*, 44(6), 1211-1228.
- Alexander, L., & Moore, M. (2016). Deontological Ethics. In: E. N. Zalta (Ed.), *The Stanford Encyclopedia of Philosophy* (Winter 2016 Edition). Retrieved from <https://plato.stanford.edu/entries/Ethics-deontological/>.
- Allman, D. (2013). The Sociology of Social Inclusion. *SAGE Open*, 3(1), 1-16.
- Amin, A. & Cohendet, P. (1999). Learning and adaptation in decentralised business networks. *Environment and Planning D: Society and Space*, 17(1), 87-104.
- Anderson, B. (1983). Imagined Communities: Reflections on the Origin and Spread of Nationalism. London: Verso.
- Anderson, P., & Tushman, M. L. (1990). Technological discontinuities and dominant designs: A cyclical model of technological change. *Administrative Science Quarterly* 35(4), 604–633.
- Annas, J. (2011). *Intelligent Virtue*. Oxford: Oxford University Press.
- Arendt, H. (1998). *The Human Condition* (2nd ed.). Chicago, IL: University of Chicago Press. Original work published 1958.
- Arkin, R. (2013). Lethal Autonomous Systems and the Plight of the Non-combatant. *AISB Quarterly* 137(1): 4-12.
- Arrow, K. (1974). *Essays in the Theory of Risk Bearing*. Amsterdam: North-Holland Publishing Company.
- Asada, M., MacDorman, K. F., Ishiguro, H., & Kuniyoshi, Y. (2001). Cognitive developmental robotics as a new paradigm for the design of humanoid robots. *Robotics and Autonomous Systems*, 37, 185–193.
- Asaro, P. (2006). What should we want from a robot ethic? *International Review of Information Ethics*, 6(12), 9-16.
- ASCE (2017). ASCE Code of Ethics, American Society of Civil Engineers. Retrieved from <https://www.asce.org/code-of-ethics/>.
- Asheim, B., & Coenen, L. (2005). Knowledge bases and regional innovation systems: Comparing Nordic clusters. *Research Policy*, 34(8), 1173–1190.
- Asheim, B., & Gertler, M. S. (2005). The geography of innovation: regional innovation systems. In J. Fagerberg, & D. C. Mowery (Eds.), *The Oxford handbook of innovation* (pp. 291-317). Oxford: Oxford University Press.
- Audretsch, D. B., & Feldman, M. (1996a). Knowledge Spillovers and the Geography of Innovation and Production. *American Economic Review*, 86(3), 630-640.
- (1996b). Innovative clusters and the industry lifecycle. *Review of industrial organization*, 11(2), 253-273.
- Autor, D.H. (2015). Why are there still so many jobs? The history and future of workplace automation. *Journal of Economic Perspectives*, 29(3), 3–30.
- Autor, D. H., Lawrence, F. K., & Kearney, M. S. (2006). The polarization of the U.S. Labor Market. *American Economic Review*, 96(2), 189-194.
- Autor, D.H., Levy, F., & Murnane, R.J. (2003). The Skill Content of Recent Technological Change: An Empirical Exploration. *Quarterly Journal of Economics*, 118(4), 1279-1333.
- Babbage, C. (2009). *On the Economy of Machinery and Manufactures*. Cambridge, MA: Cambridge University Press. Original work published 1832.
- Baker, M., Hansen, T., Joiner, R., & Traum, D. (1999). The role of grounding in collaborative learning tasks. In P. Dillenbourg (Ed.), *Collaborative learning: Cognitive and computational approaches* (pp. 31-63). Oxford: Pergamon.
- Barak, M., & Zadok, Y. (2009). Robotics projects and learning concepts in science, technology and problem solving. *International Journal Technology & Design Education*, 19(3), 289-307.
- Barbieri, P., Scherer, S. (2009). Labour Market Flexibilization and its Consequences in Italy. *European Sociological Review*, 25(6), 677-692.
- Barney, J. B. (1991). Firm resources and sustained competitive advantage. *Journal of Management*, 17(1), 99-120.
- Barth, F. (2002). An anthropology of knowledge. *Current Anthropology* 43(1), 1-18.
- Bartneck, C., & Forlizzi, J. (2004, September). *A Design-Centred Framework for Social Human-Robot Interaction*. Paper presented at RO-MAN 2004 13th International Workshop on Robot and Human Interactive Communication.
- Bathelt, H., Malmberg, A., & Maskell, P. (2004). Clusters and knowledge: local buzz, global pipelines and the process of knowledge creation. *Progress in Human Geography*, 28(1), 31-56.
- Baumol, W.J. (1967). Macroeconomics of Unbalanced Growth: The Anatomy of Urban Crisis. *American Economic Review*, 57(3), 415-26.
- Bekey, G. (2012). Current Trends in Robotics: Technology and Ethics. In P. A. Lin (Ed.), *Robot Ethics: The Ethical and Social Implications of Robotics* (pp. 17-34). Cambridge, MA: MIT Press.

- Berchicci, L., King, A., & Tucci, C. L. (2011). Does the apple always fall close to the tree? The geographical proximity choice of spin-outs. *Strategic Entrepreneurship Journal*, 5(2), 120-136.
- Bicchi, A. P. (2008). Safety for Physical Human-Robot Interaction. In B. Siciliano, & O. Khatib (Eds.) (2016). *Springer Handbook of Robotics* (pp. 1335-1348). Berlin: Springer.
- Blackorby, C., & Russell, R. R. (1989). Will the real elasticity of substitution please stand up? A comparison of the Allen/Uzawa and Morishima elasticities. *The American economic review*, 79(4), 882-888.
- Blond, L. (2019). *Dances with Robots: Understanding social robots in practice*. (Ph.D. dissertation. Aarhus University, Aarhus, Denmark).
- Blond, L., & Olesen, F. (In press). Unpacking the cultural baggage of travelling robots: How socially assistive robots are integrated in practice. In C. Hasse, & D. M. Søndergaard (Eds.), *Designing Robots – Designing Humans*. New York, London: Routledge.
- Boden, M. (2006). *Mind as machine: A history of cognitive science* (vol. 1 & 2). Oxford: Oxford University Press.
- Boeing, P., & Sandner, P. (2011). *The Innovative Performance of China's National Innovation System* (Frankfurt School of Finance & Management Working Paper 158). Retrieved from <https://pdfs.semanticscholar.org/76d6/85a4cc6ec19db5d4832190984940ea876bc7.pdf>
- Boschma, R. (2005). Proximity and innovation: A critical assessment. *Regional Studies*, 39(1), 61-74.
- Broussard, M. (2018). Artificial unintelligence: how computers misunderstand the world. Cambridge, MA: MIT Press.
- Bruun, M. H., Hanghøj, S., & Hasse, C. (2015). Studying social robots in practiced places. *Techné: Research in Philosophy and Technology*, 19(2), 143-165.
- Bruffee, K. (1993). *Collaborative Learning*: Higher education, interdependence, and the authority of knowledge. Baltimore, MD: The Johns Hopkins University Press.
- (1996). Collaborative Learning and the Conversation of Mankind. In M., Wiley, B., Gleason & L.W., Phelps (Eds.), *Composition in Four Keys* (pp.84-97). California city, CA: Mayfield Company Publishing.
- Brynjolfsson, E., & McAfee, A. (2011). *Race Against the Machine: How the Digital Revolution is Accelerating Innovation, Driving Productivity, and Irreversibly Transforming Employment and the Economy*. Lexington, MA: Digital Frontier Press.
- Brynjolfsson, E., & Mitchell, T. (2017). What can machine learning do? Workforce implications. *Science*, 358(6370).
- Buchanan, J. M. (1963). The economics of earmarked taxes. *Journal of political economy*, 71(5), 457-469.
- Capurro, F., Hausmanninger, T., Weber, K., & Weil, F. (2006). Editorial: On IRIE Vol. 6. *International Review of Information Ethics*, 6(12), 1.
- Castoriadis, C. (1987). *The Imaginary Institution of Society* (trans. Kathleen Blamey). Cambridge, MA: MIT Press. Original work published 1975.
- Clark, C. M. A., & Kavanagh, C. (1996). Basic income, inequality, and unemployment: Rethinking the linkage between work and welfare. *Journal of Economic Issues*, 30(2), 399-406.
- Coeckelbergh, M. (2010). Robot rights? Toward a social-relational justification of moral consideration. *Ethics and Information Technology*, 12(3), 209-221.
- (2016). Responsibility and the Moral Phenomenology of Using Self-Driving Cars. *Applied Artificial Intelligence*, 30(8), 748-757.
- Cohen, W.M., & Levinthal, D.A. (1990). Absorptive capacity: a new perspective on learning and innovation. *Administrative science quarterly*, 35(1), 128-152.
- Colombino, U. (2015). Is unconditional basic income a viable alternative to other social welfare measures? *IZA World of labor*, Retrieved from <https://wol.iza.org/uploads/articles/475/pdfs/is-unconditional-basic-income-viable-alternative-to-other-social-welfare-measures.pdf?v=1>
- Cooke, P. (2001). Regional innovation systems, clusters, and the knowledge economy. *Industrial and Corporate Change*, 10(4), 945-974.
- Cooke, P., & Leydesdorff, L. (2006). Regional development in the knowledge-based economy: The construction of advantage. *Journal of Technology Transfer*, 31(1). 5 - 15.
- Cooper, R.G. (1983). A Process Model for Industrial New Product Development. *IEEE Transactions on Engineering Management*, 30(1), 2-11.
- (2007) New Products—What Separates the Winners from the Losers and What Drives Success. In K. B. Kahn (Ed.), *The PDMA Handbook of New Product Development* (pp. 3-34). Hoboken, NJ: John Wiley and Sons.
- Criado, C. (2019). *Invisible Women: Exposing Data Bias in a World Designed for Men*. New York, NY: Vintage Publishing.
- D'Andrade, R., & Strauss, C. (1992). (Eds.), *Human Motives and Cultural Models*. Cambridge: Cambridge University Press.
- Darling, K. (2017). 'Who's Johnny?' Anthropomorphic framing in human-robot interaction, integration and policy. In P. Lin, G. Bekey, K. Abney & R. Jenkins (Eds.), *Robot Ethics 2.0: from autonomous cars to artificial intelligence*. Oxford: Oxford University Press.
- Dautenhahn, K. (2013). 38. Human-Robot Interaction. In *The Encyclopedia of Human-Computer Interaction* (2nd ed.) Retrieved from: <https://www.interaction-design.org/literature/book/the-encyclopedia-of-human-computer-interaction-2nd-ed/human-robot-interaction>.
- David, P. A. (1985). Clio and the Economics of QWERTY. *The American economic review*, 75(2), 332-337.
- Decker, M., Fischer, M., & Ott, I. (2017). Service Robotics and Human Labor: A first technology assessment of substitution and cooperation. *Robotics and Autonomous Systems*, 87(1), 348-354.
- de Graaf, M., Ben Allouch, S., & van Dijk, J. (2017, March). *Why Do They Refuse to Use My Robot? Reasons for Non-Use Derived from a Long-Term Home Study*. Paper presented at the 2017 ACM/IEEE International Conference on Human-Robot Interaction (HRI '17). Retrieved from http://delivery.acm.org/10.1145/3030000/3020236/p224-de-graaf.pdf?ip=192.38.32.14&id=3020236&acc=ACTIVE%20SERVICE&key=36332CD-97FA87885%2E318148A04E30A4A4%2E4D4702B0C3E38B35%2E4D4702B0C3E38B35&_acm_=1567607112_8e56c86bdca3ed-3201600c4043a90b95.
- De Haan, A. (1998). 'SocialExclusion': An Alternative Concept for the Study of Deprivation? *IDS Bulletin*, 29(1), 10-19.
- (1999). Social Exclusion: Towards an Holistic Understanding of Deprivation. Retrieved from https://www.researchgate.net/publication/44824462_Social_Exclusion_Towards_a_Holistic_Understanding_of_Deprivation
- De Beauvoir, S. 1949 [2010]. *The Second Sex*. (trans. Constance Borde and Sheila Malovany-Chevallier) New York, NY: Vintage Books.

- De Wispelaere, J., & Stirton, L. (2012). A disarmingly simple idea? Practical bottlenecks in the implementation of a universal basic income. *International Social Security Review*, 65(2), 103-121.
- Deming, D.J. (2015). The growing importance of social skills in the labor market. *The Quarterly Journal of Economics*, 132(4), 1593-1640.
- Dillenbourg, P. (1999). What do you mean by collaborative learning? In P. Dillenbourg (Ed.), *Collaborative learning: Cognitive and Computational Approaches* (pp.1-19). Oxford: Elsevier.
- Dodig-Crnkovic, G. (2008). Sharing Moral Responsibility with Robots: A Pragmatic Approach. In A. Holst, P. Krueger, & P. Funk (Eds.), *Proceedings of the 2008 conference on Tenth Scandinavian Conference on Artificial Intelligence: SCAI 2008* (pp. 165–168). Amsterdam: IOS Press.
- Dosi, G. (1982). Technological paradigms and technological trajectories. *Research Policy*, 11(3), 147-162.
- Driver, J. (2007). Normative ethics. In: F. Jackson, & M. Smith (Eds.), *The Oxford handbook of contemporary philosophy*. Oxford: Oxford University Press.
- Echevarria, C. (1997). Changes in sectoral composition associated with economic growth. *International economic review*, 38(2), 431-452.
- Edwards, A. (2007). Vygotsky, Mead, and American Pragmatism. In H. Daniels, M. Cole, & J. V. Wersch (Eds.), *The Cambridge Companion to Vygotsky* (pp. 77–100). Cambridge: Cambridge University Press.
- (2010). Being an Expert Professional Practitioner: The Relational Turn in Expertise. Dordrecht: Springer.
- (2012). The role of common knowledge in achieving collaboration across practices. *Learning, Culture and Social Interaction*, 1(1), 22–32.
- Eichhorst, W., & Kaiser, L.C. (2006). *The German labor market: still adjusting badly?* (IZA Discussion Papers, No. 2215). Retrieved from https://papers.ssrn.com/sol3/papers.cfm?abstract_id=921056
- Elara, M. R., Rojas, N., Sosa, R., & Kaisner, J. (2013, November). *Robot Inclusive Space challenge: A design initiative*. Paper presented at 6th IEEE Conference on Robotics, Automation and Mechatronics (RAM). Retrieved from: <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6758562>.
- Ernst, D. (2002). Global production networks and the changing geography of innovation systems. *Implications for developing countries. Economics of Innovation and New Technology*, 11(6), 497-523.
- Ess, C. (2013). Digital Media Ethics: Overview, Frameworks, Resources. In C. Ess, *Digital Media Ethics*. Cambridge: Polity Press.
- euRobotics aisbl. (2013). Strategic Research Agenda for robotics in Europe. 2014-2020. Retrieved from https://www.eu-robotics.net/cms/upload/topic_groups/SRA2020_SPARC.pdf.
- European Commision. (2013). *Gendered innovations. How Gender analysis contributes to research*. Luxembourg: Office for Official Publications of the European Communities.
- (2018). *Statement on Artificial intelligence, robotics and ‘autonomous’ systems*. Luxembourg: Office for Official Publications of the European Communities.
- European Parliament (2016). Draft report with recommendations to the Commission on Civil Law Rules on Robotics (draft report). Retrieved from: http://www.europarl.europa.eu/doceo/document/JURI-PR-582443_EN.pdf.
- European Parliament. (2017). *EU Parliamentary Resolution, Civil Law Rules on Robotics*. Retrieved from http://www.europarl.europa.eu/doceo/document/TA-8-2017-0051_EN.html.
- Eyssel, F., Kuchenbrandt, D., Bobinger, S., De Ruiter, L., & Hegel, F. (2012). "If you sound like me, you must be more human": On the interplay of robot and user features on human–robot acceptance and anthropomorphism. In *Proceedings of the 7th annual ACM/IEEE International Conference on Human–Robot Interaction (HRI'12)*, pp. 125–126.
- Fielding, N.G., & Lee, R.M. (1998). *Computer Analysis and Qualitative Research*. Thousand Oaks, CA: SAGE Publications.
- Floridi, L. (2019). Translating principles into practices of digital ethics: Five risks of being unethical. *Philosophy & Technology*, 32(2), 185–193.
- Ford, M. (2015). *The Rise of the Robots: Technology and the Threat of Mass Unemployment*. Oxford: Oneworld Publications.
- Forge, S., Blackman, C., Bogdanowicz, M., & Desruelle, P. (2010). *A Helping Hand for Europe: the Competitive Outlook for the EU Robotics Industry*. Luxembourg: Publications Office of the European Union.
- Foster, J. (2005). The self-organization perspective on economic evolution: A unifying paradigm. In K. Dopfter (Ed.), *The evolutionary foundations of economics* (pp. 365-390). Cambridge: Cambridge University Press.
- Foster, J., & Wild, P. (1999). Econometric Modelling in the Presence of Evolutionary Change. *Cambridge Journal of Economics*, 23(6), 749-77.
- Freeman, C. (1995). 'The National System of Innovation' in Historical Perspective. *Cambridge Journal of Economics*, 19(1), 5-24.
- Frey, C.B., & Osborne, M. A. (2017). The future of employment: how susceptible are jobs to computerisation? *Technological Forecasting and social change*, 114(3), 254–280.
- Friedman, B., Kahn, P. H., & Borning, A. (2002). Value sensitive design: Theory and methods. Technical report, University of Washington. Retrieved from <https://faculty.washington.edu/pkahn/articles/vsd-theory-methods-tr.pdf>.
- (2006). Value sensitive design and information systems. In: M. E. Sharpe (Ed.), *Human–computer interaction and management information systems: Foundations* (pp. 348–372). New York, NY: Routledge.
- Fussell, S. R., Kiesler, S., Setlock, L. D., Yew, V. (2008, March). *How people anthropomorphize robots*. Paper presented at the 3rd annual ACM/IEEE international conference on Human-robot interaction (HRI'08).
- Future of Life Institute (2015). Autonomous Weapons: an Open Letter from AI & Robotics Researchers. Retrieved from: <https://futureoflife.org/open-letter-autonomous-weapons/>
- Garcia, E., Jimenez, M. A., Gonzalez de Santos, P., & Armada, M. (2007). The evolution of robotics research. *IEEE Robotics & Automation Magazine*, 14(1), 90-103.
- Gasteiger E., Prettner K. (2017). *A note on automation, stagnation, and the implications of a robot tax* (Discussion paper). Retrieved from <https://www.econstor.eu/bitstream/10419/162732/1/892654295.pdf>.

- Gergen, K. (2011). The Mythic Reality of Autonomous Individual. *Zygon*, 46(1), 204-223.
- Giacomin, J. (2014). What is Human centered design? *The Design Journal*, 17(4), 606-624.
- Gips, J. (1991, May). *Towards the Ethical Robot*. Extended version of paper presented at The Second International Workshop on Human and Machine Cognition: Android Epistemology.
- Ginzberg, E. (1982). The mechanization of work. *Scientific American*, 247(3), 66-75.
- Glaeser, E.L., Kallal, H.D., Scheinkman, J.A., & Shleifer, A. (1992). Growth in cities. *Journal of political economy*, 100(6), 1126-1152.
- Goldin, C., & Katz, L.F. (2008). *The Race between Education and Technology*. Cambridge, MA: Harvard University Press.
- Goos, M., & Manning, A. (2007). Lousy and lovely jobs: The rising polarization of work in Britain. *The Review of Economics and Statistics*, 89(1), 118-133.
- Goos, M., Manning, A., & Salomons, A. (2009). Job polarization in Europe. *The American Economic Review*, 99(2), 58-63
- Grant, R.M. (1996). Toward a knowledge-based theory of the firm. *Strategic Management Journal*, 17(2), 109-122.
- Grant, R. M., & Baden-Fuller, C. (2004). A knowledge accessing theory of strategic alliances. *Journal of management studies*, 41(1), 61-84.
- Gray, C.M., & Howard, C.D. (2014, October). *Externalizing Normativity in Design Reviews: Inscribing Design Values in Designed Artifacts*. Paper presented at DTRS 10: Design Thinking Research Symposium. Retrieved from <https://docs.lib.purdue.edu/dtrs/2014/Multiple/2/>.
- Groenewegen, P. (2008). Division of Labour. In S. N. Durlauf, & L. E. Blume (Eds.), *The New Palgrave Dictionary of Economics* (2nd ed.). London: Palgrave Macmillan.
- Groot, L. F. M., & Peeters, H. M. M. (1997). A model of conditional and unconditional social security in an efficiency wage economy: the economic stability of a basic income. *Journal of Post-Keynesian Economics*, 4(19), 573-597.
- Guerreiro, J., Rebelo, S., & Teles, P. (2017). Should Robots Be Taxed? (NBER Working Paper No. 23806). Retrieved from <https://www.nber.org/papers/w23806.pdf>.
- Guevarra, A.R. (2015). Techno-Modeling Care – Racial Branding, Dis/embodied Labor, and “Cybraceros” in South Korea. *Frontiers: A Journal of Women Studies*, 36(3), 139-159.
- Hagedoorn, J. (2002). Inter-Firm R&D partnership: An overview of major trends and patterns since 1960. *Research Policy*, 31(4), 477-492.
- Haimes, E. (2002). What can the social sciences contribute to the study of ethics? Theoretical, empirical and substantive considerations. *Bioethics*, 16(2), 89-113.
- Hall, P.A., & Soskice, D. (2001). Varieties of Capitalism: The Institutional Foundations of Comparative Advantage. Oxford: Oxford University Press.
- Hamel, G., & Prahalad, C. K. (1994). *Competing for the Future*. Boston, MA: Harvard Business School Press.
- Hannan, M.T., & Freeman, J. (1977). The population ecology of organizations. *The American Journal of Sociology*, 82(5), 929-964.
- Hasse, C. (2015). An Anthropology of Learning. On Nested Frictions in Cultural Ecologies. Dordrecht: Springer Verlag.
 - (2015a). Multistable Roboethics. In J. K. B. O. Friis, & R. P. Crease (Eds.), *Technoscience and postphenomenology: The Manhattan papers* (pp. 169-188). Lanman, MD: Rowman & Littlefield Publishers.
 - (2017). Technological literacy for teachers. *Oxford Review of Education*, 43(3), 365-378.
 - (2019). The multi-variation approach. *Paladyn, Journal of Behavioral Robotics*, 10(1), 219-227.
- Hatton, E. (2017). Mechanisms of invisibility: Rethinking the concept of invisible work. *Work, Employment & Society*, 31(2), 336-351.
- Haugeland, J. (1985). *Artificial Intelligence: The very idea*. Cambridge, MA: MIT Press.
- Hekkert, M. P., Suurs, R. A., Negro, S. O., Kuhlmann, S., & Smits, R. E. (2007). Functions of innovation systems: A new approach for analysing technological change. *Technological forecasting and social change*, 74(4), 413-432.
- Hekkert, M., Negro, S., Heimeriks, G., & Harmsen, R. (2011). *Technological Innovation System Analysis. A manual for analysts* (Technical report, Faculty of Geosciences. Copernicus Institute for Sustainable Development and Innovation. Utrecht University). Retrieved from https://pdfs.semanticscholar.org/68e1/abecbbe0da073c7e63d95dbb750f5d910024.pdf?_ga=2.153840892.51672873.1567584518-560429439.1566166180.
- Haimes, E. (2002). What can the social sciences contribute to the study of ethics? Theoretical, empirical and substantive considerations. *Bioethics*, 16(2), 89-113.
- Hicks, M. (2017). Programmed Inequality: How Britain Discarded Women Technologists and Lost Its Edge in Computing. Cambridge, MA: MIT Press.
- Houkes, W., Vermaas, P. E., Dorst, K., & de Vries, M. J. (2002). Design and use as plans: an action-theoretical account. *Design Studies*, 23(3), 303-320.
- Howard, A., & Borenstein, J. (2018). The Ugly Truth About Ourselves and Our Robot Creations: The Problem of Bias and Social Inequity. *Science and engineering ethics*, 24(5), 1521-1536.
- Hughes, J. J. (2017). What Is the Job Creation Potential of New Technologies? In K. LaGrandeur, & J. Hughes (Eds.), *Surviving the Machine Age*. London: Palgrave Macmillan.
- IEEE Ethics in Action (2017). *Ethically Aligned Design, Version 2 (EADv2)*. Retrieved from https://standards.ieee.org/content/dam/ieee-standards-standards/web/documents/other/ead_v2.pdf.
- Ihde, D., & Malafouris, L. (2019). Homo faber revisited: Postphenomenology and material engagement theory. *Philosophy & Technology*, 32(2), 195-214.
- Information Resources Management Association (2013). *Robotics: Concepts, Methodologies, Tools, and Applications*. Hershey, PA: Information Science Reference.
- Intergovernmental Panel on Climate Change. (2019). Climate change and land: An IPCC special report on climate change, desertification, land

- degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems. United Nations. Retrieved from <https://www.ipcc.ch/report/srccl/>.
- Jacobides, M.G., & Winter, S.G. (2005). The co-evolution of capabilities and transaction costs - explaining the institutional structure of production. *Strategic Management Journal*, 26(5), 395-413.
- Jones, R. (2018). Engineering Cheerful Robots: An Ethical Consideration. *Information*, 9(7), 152-163.
- Jovanovic, B., & MacDonald, G. M. (1994). The life cycle of a competitive industry. *Journal of Political Economy*, 102(2), 322-347.
- Jöns, H., Heffernan, M., & Meusburger, P. (2017). Mobilities of knowledge: An introduction. In H. Jöns, & M. Heffernan (Eds.), *Mobilities of Knowledge* (pp. 1-19). Berlin: Springer.
- Kaplan, J. (2015). Humans need not apply: A guide to wealth and work in the age of artificial intelligence. New Haven, CT: Yale University Press, 2015.
- Kagan, S. (1997). *Normative Ethics*. Boulder, CO: Westview Press.
- Kattenbach, R., Schneidhofer, T.M., Lücke, J., Latzke, M., Loacker, B., Schramm, F., & Mayrhofer, W. (2014). A quarter of a century of job transitions in Germany. *Journal of Vocational Behavior*, 84(1), 49-58.
- Keates, S. C. (2004). Countering Design Exclusion: An Introduction to Inclusive Design. Berlin: Springer.
- Keates, S. L., & Clarkson, P. J. (2014). Countering Design Exclusion: An Introduction to Inclusive Design. Berlin: Springer.
- Keates, S. L., Clarkson, P. J., & Robinson, P. (2002). Developing a practical inclusive interface design approach. *Interacting with Computers*, 14(4), 271-299.
- Kennedy, T.C.S. (1975). Some behavioural factors affecting the training of naive users of an interactive computer system. *International Journal of Man-Machine Studies*, 7(6), 817-834.
- Key Facts & Figures. Highlights from the 2019 update to the Engineering UK report. (2019, June 27). Retrieved from <https://www.engineeringuk.com/news-media/new-summary-highlights-key-facts-and-figures-for-engineering-uk-report/>.
- Klepper, S. (1997). Industry life cycles. *Industrial and corporate change*, 6(1), 145-182.
- Knight, F. H. (1921). *Risk, Uncertainty, and Profit*. Boston, MA: Hart, Schaffner & Marx; Houghton Mifflin Company.
- Knoben, J., & Oerlemans, L. A. G. (2006). Proximity and inter-organizational collaboration: A literature review, *International Journal of Management Reviews*, 8(2), 71-89.
- Kogut, B., & Zander, U. (1992). Knowledge of the firm, combinative capabilities, and the replication of technology. *Organization science*, 3(3), 383-397.
- Kumaresan, N., & Miyazaki, K. (1999). An integrated network approach to systems of innovation—the case of robotics in Japan. *Research Policy*, 28(6), 563-585.
- Kuwashima, K. (2012). Product development research cycle: A historical review 1960s-1980s. *Annals of Business Administrative Science*, 11(1), 11-23.
- Kwok-Kong, T. M., Zhi-Feng Liu, E., & Yen Huang, Y. (2012). Exploring parents' perceptions towards educational robots: Gender and socio-economic differences. *British Journal of Educational Technology*, 43(1), 31-34.
- Lacan, J. (1977). The Mirror Stage as Formative of the Function of the I. In J. Lacan, *Écrits: A Selection* (trans. Alan Sheridan, pp. 1-7), New York, NY: W.W. Norton. Original work published 1949.
- Lave, J., & Wenger, E. (1991). *Situated Learning*. Cambridge: Cambridge University Press.
- Lawson, B., & Samson, D. (2001). Developing innovation capability in organisations: a dynamic capabilities approach. *International journal of innovation management*, 5(3), 377-400.
- Leeson, C. (2017) Anthropomorphic Robots on the Move. A Transformative Trajectory from Japan to Danish Healthcare. (Ph.D. dissertation. Copenhagen University, Copenhagen, Denmark).
- Legg, S. & Hutter, M. (2009). A collection of definitions of intelligence. In: B. Goertzel, & P. Wang (Eds.), *Advances in general artificial intelligence: concepts, architecture and algorithms*. Amsterdam: IOS Press.
- Lennon, K. (2015). *Imagination and the Imaginary*. London: Routledge.
- Leontief, W. (1982). Academic Economics. *Science*, 217(4555), 104-107.
- Levin-Waldman, O. M. (2018). The inevitability of a Universal Basic Income. *Challenge*. 61(2), 133-155.
- Lin, P., Abney, K., & Bekey (2011). Robot ethics: Mapping the issues for a mechanized world. *Artificial Intelligence*, 175(5-6), 942-949.
- Lipsey, R. G., Carlaw, K. I., & Bekar, C. T. (2006). Economic transformations: *General purpose technology and long-term economic growth*. Oxford: Oxford University Press.
- Liu, J., Chaminade, C., & Asheim, B. (2013). The geography and structure of global innovation networks: A knowledge base perspective. *European Planning Studies*, 21(9), 1456-1473.
- Luegenbiehl, H. C., & Puka, B. (1983). Codes of ethics and the moral education of engineers [with commentary]. *Business & Professional Ethics Journal*, 2(4), 41-66.
- Lundvall, B.-Å. (Ed.). (2010). National Systems of Innovation. Towards a Theory of Innovation and Interactive Learning. London: Anthem Press.
- MacCrory, F., Westerman, G., Alhammadi, Y., & Brynjolfsson, E. (2014, December). *Racing with and against the machine: changes in occupational skill composition in an era of rapid technological advance*. Paper presented at 35th International Conference on Information Systems.
- MacIntyre, A. (2002). A Short History of Ethics: A History of Moral Philosophy from the Homeric Age to the Twentieth Century. London: Routledge Classics.
- Martin, E. W., & Schinzinger, R. (2005). *Ethic in engineering* (4th ed.). New York, NY: McGraw-Hill.

- Martin, R., & Moodysson, J. (2011). Comparing knowledge bases: on the geography and organization of knowledge sourcing in the regional innovation system of Scania, Sweden. *European Urban and Regional Studies*, 20(2), 170–187.
- Mason, M. (2012). Creation Myths: The Beginnings of Robotics Research. *IEEE Robotics & Automation Magazine*, 19(2), 72-77.
- McCauley, L. (2007). AI Armageddon and the Three Laws of Robotics. *Ethics and Information Technology*, 9(2), 153–164.
- McNeil, M., Arribas-Ayllon, M., Haran, J., Mackenzie, A., & Tutton, R. (2017). Conceptualizing Imaginaries of Science, Technology and Society. In U. Felt, R. Fouché, C. R. Miller, & Smith-Doerr, L. (Eds.), *Handbook of Science and Technology Studies*. Cambridge, MA: The MIT Press.
- Melles, G., de Vere, I., & Misic, V. (2011). Socially responsible design: thinking beyond the triple bottom line to socially responsive and sustainable product design. *CoDesign: International journal of cocreation in design and the arts*, 7(3-4), 143-154.
- Metz, C. (2019, October 15). If a Robotic Hand Solves a Rubik's Cube, Does It Prove Something? *The New York Times*.
<https://nyti.ms/31hLzLp>
- Miller, G. A. (1956). The magical number seven, plus or minus two: Some limits on our capacity for processing information. *Psychological Review*, 63(2), 81–97.
- Mindell, D. (2015). Our Robots, Ourselves: Robotics and the Myths of Autonomy. New York, NY: Viking.
- Minsky, M. (1968). *Semantic Information Processing*. Cambridge, MA: MIT Press
- Mokyr, J., Vickers, C., & Ziebarth, N.L. The History of Technological Anxiety and the Future of Economic Growth: Is This Time Different? *The Journal of Economic Perspectives* 2015, 29(3), 31-50.
- Morozov, E. (2013). To save everything, click here: The folly of technological solutionism. New York, NY: Public Affairs.
- Muller, M. J., Wildman, D. M., & White, E. A. (1993). Participatory design. *Communications of the ACM*, 36(4), 24-28.
- Nathan, D., & Ahmed, N. (2018). Technological Change and Employment: Creative Destruction. *Indian Journal of Labour Economics*, 61(2), 281 - 298.
- Nevejans, N. (2016). European civil law rules in robotics: Study for the JURI committee. Retrieved from [http://www.europarl.europa.eu/RegData/etudes/STUD/2016/571379/IPOL_STU\(2016\)571379_EN.pdf](http://www.europarl.europa.eu/RegData/etudes/STUD/2016/571379/IPOL_STU(2016)571379_EN.pdf).
- Ngai, L. R., & Pissarides, C. A. (2007). Structural Change in a Multisector Model of Growth. *American Economic Review*, 97(1), 429-443.
- Nickelsen, N. C. M. (2018). *Feeding assistive robotics, socio-technological imaginaries, and care: The case of Bestic* (REELER Working Paper Series no. 2). Retrieved from http://reeler.eu/fileadmin/user_upload/REELER/WP02_Feeding_Assistive_Robotics.pdf
- Nicolle, C., & Abascal, J. (2005). Moving towards inclusive design guidelines for socially and ethically aware HCI. *Interacting with Computers*, 17(5), 484–505.
- Nilsen, E. R., Dugstad, J., Eide, H., Gullslett, M. K., & Eide, T. (2016). Exploring resistance to implementation of welfare technology in municipal healthcare services – a longitudinal case study. *BMC Health Services Research*, 16(1), 657.
- Nilsson, N. J. (2009). The quest for artificial intelligence: A history of ideas and achievements. New York, NY: Cambridge University Press.
- Niosi, J. (2002). National systems of innovations are “x-efficient” (and x-effective). Why some are slow learners. *Research Policy*, 31(2), 291–302.
- Noble, D. (1993). *Progress Without People: In Defense of Luddism*. London: Charles H. Kerr Publishing Co.
- Nomura, T., Kanda, T., Suzuki, T., & Kato, K. 2008. Prediction of Human Behavior in Human–Robot Interaction Using Psychological Scales for Anxiety and Negative Attitudes Toward Robots. *IEEE Transactions on Robotics*, 24(2), 442-451.
- Nonaka, I. (1994). A dynamic theory of organizational knowledge creation. *Organization science*, 5(1), 14-37.
- Nonaka, I., Toyama, R., & Nagata, A. (2000). A firm as a knowledge-creating entity: a new perspective on the theory of the firm. *Industrial and corporate change*, 9(1), 1-20.
- Oswal, S. K. (2014). Participatory design: barriers and possibilities. *Communication Design Quarterly Review*, 2(3), 14-19.
- Ouchi, W. G. (1981). Theory Z: How American Business Can Meet the Japanese Challenge. Reading, MA: Addison-Wesley.
- Paperno, N., Rupp, M.A., Parkhurst, E.L., Maboudou-Tchao, E.M., Smither, J.A., Bricout, J., & Beha, A. (2019). Age and Gender Differences in Performance for Operating a Robotic Manipulator. *IEEE Transactions on Human-Machine Systems*, 49(2), 137-149.
- Parijs, P. van (1995). Real Freedom for All - What (if anything) can justify capitalism. Oxford: Clarendon Press.
- (2018). Basic income and the left, a European debate. Berlin: Social Europe.
- Parijs, P. van, & Vanderborght, Y. (2017). *Basic Income. A radical Proposal for a Free Society and a Sane Economy*. Cambridge, MA: Harvard University Press.
- Pasinetti, L. (1981). Structural Change and Economic Growth: a Theoretical essay on the dynamics of the wealth of nations. Cambridge, MA: Cambridge University Press.
- Perez, C. (1985). Microelectronics, Long Waves and World Structural Change: New Perspective for Developing Countries. *World Development*, 13(2), 441-463.
- Peel, F., & Thompson, E. P (1968). *The rising of the Luddites. Chartists and plug-drawers*. London: Routledge.
- Peters, M.A. (2017). Technological unemployment: Educating for the fourth industrial revolution. *Educational Philosophy and Theory*, 49(1), 1-6.
- Polit, D.F., & Beck, C.T. (2010). Generalization in quantitative and qualitative research: myths and strategies. *International journal of nursing studies*, 47(11), pp. 1451-1458.
- Pommeranz, A. D. (2012). Elicitation of situated values: need for tools to help stakeholders and designers to reflect and communicate. *Ethics and Information Technology*, 14(4), 285-303.
- Porter, M. E. (1979). How competitive forces shape strategy. *Harvard Business Review*, 57(1), 137-145.
- Potts, S. G., Neumann, P., Vaissière, B., & Vereecken, N. J. (2018). Robotic bees for crop pollination: Why drones cannot replace biodiversity. *Science of the Total Environment*, 642(1), 665-667.

- Quick Take: Women in Science, Technology, Engineering, and Mathematics (STEM). (2019, June 14). Retrieved from <https://www.catalyst.org/research/women-in-science-technology-engineering-and-mathematics-stem/>
- Reid, S. E., & De Brentani, U. (2004). The fuzzy front end of new product development for discontinuous innovations: A theoretical model. *Journal of product innovation management*, 21(3), 170-184.
- Richardson, K. (2016). The Asymmetrical 'Relationship': Parallels Between Prostitution and the Development of Sex Robots. *ACM SIGCAS Computers and Society*, 45(3), 290-293.
- (2019). The Complexity of Otherness: Anthropological contributions to robots and AI (working paper).
- Robertson, J. (2014). Human rights vs. robot rights: Forecasts from Japan. *Critical Asian Studies*, 46(4): 571-598.
- Rosenbrock, H. (Ed.). (1989). *Designing Human-centred Technology*. London: Springer Verlag.
- Rosenkopf, L., & Padula, G. (2008). Investigating the microstructure of network evolutions: Alliance formation in the mobile communications industry. *Organization Science*, 19(5), 669-687.
- Rosenkopf, L., & Tushman, M. L. (1998). The coevolution of community networks and technology: lessons from the flight simulation industry. *Industrial and Corporate Change*, 7(2), 311-346.
- Ross, W. D. (2007). *The Right and The Good*. Oxford: Clarendon Press. Original work published 1930.
- Rosser, S. V. (2005). Through the Lenses of Feminist Theory: Focus on Women and Information Technology. *Frontiers: A Journal of Women Studies*, 26(1), 1-23.
- Russell, S. & Norvig, P. (2009). *Artificial Intelligence: A modern approach* (3rd ed.). Upper Saddle River, NJ: Prentice-Hall.
- Rüst, A. (2014). A piece of the pie chart: feminist robotics. *Leonardo*, 47(4), 372-379.
- Santoni de Sio, F. (2016). *Ethics and Self-Driving Cars: A White Paper on Responsible Innovation in Automated Driving Systems* (White paper). Retrieved from https://www.academia.edu/28721225/Ethics_and_Self-driving_Cars_A_White_Paper_on_Responsive_Innovation_in_Automated_Driving_Systems.
- Saviotti, P. P., & Pyka, A. (2004). Economic development, qualitative change and employment creation. *Structural Change and Economic Dynamics*, 15(3), 265-287.
- (2008). Product variety, competition and economic growth *Journal of Evolutionary Economics*, 18, 323 - 347.
- Schiebinger, L. 2008. *Gendered Innovations in Science and Engineering*. Palo Alto, CA: Stanford University Press.
- (1989). The Mind Has No Sex?: Women in the Origins of Modern Science. Cambridge, MA: Harvard University Press.
- Schodt, F. L. (1988). Inside the Robot Kingdom: Japan, Mechatronics, and the Coming Robotopia. New York, NY: Kodansha International.
- Schumpeter, J. (1942). *Capitalism, Socialism and Democracy*. New York: Harper & Brothers
- Seibt, J. (2016). "Integrative Social Robotics": A New Method Paradigm to Solve the Description and the Regulation Problem? In J. Seibt, M. Nørskov, & S. Schack Andersen (Eds.), *What Social Robots Can and Should Do: Proceedings of Robophilosophy 2016/TRANSOR 2016* (pp. 104-115). Amsterdam: IOS Press.
- Seibt, J., Damholdt, M. F., & Vestergaard, C. (2018). Five principles of integrative social robotics. In: M. Coeckelbergh, J. Loh, M. Funk, J. Seibt, & M. Nørskov (Eds.). (2018). *Envisioning robots in society – power, politics and public space* (pp. 28-42). Amsterdam: IOS Press.
- Shah, A. K., & Oppenheimer, D. M. (2008). Heuristics made easy: An effort-reduction framework. *Psychological bulletin*, 134(2), 207-222.
- Sharkey, N. (2018, November 17). Mama Mia It's Sophia: A show robot or dangerous platform to mislead? *Forbes*. Retrieved from: <https://www.forbes.com/sites/noelsharkey/2018/11/17/mama-mia-its-sophia-a-show-robot-or-dangerous-platform-to-mislead/>
- Shaw-Garlock, G. (2016). Gendered by Design: Codes in Social Robotics. In M. Nørskov (Ed.), *Social Robots: Boundaries, Potential, Challenges* (pp. 199-218). London: Routledge
- Siciliano, B., & Khatib, O. (Eds.). *Springer handbook of robotics*. Berlin: Springer
- Siegel, M., Breazeal, C., & Norton, M.I. (2009, October). Persuasive Robotics: The Influence of Robot Gender on Human Behavior. Paper presented at the *IEEE/RSJ International Conference on Intelligent Robots and Systems*. Retrieved from <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5354116>
- Simon, H. A. (1972). Theories of bounded rationality. In C. B. McGuire, R. Radner (Eds.), *Decision and Organization*. Amsterdam: North-Holland.
- (1982). *Models of Bounded Rationality* (Vol. 1 & 2). Cambridge, MA: MIT Press.
- Smith, K. (2019, June 28). City deals blow to automation plan at the Port of L.A. The robots could still be coming. *Los Angeles Times*. <https://www.latimes.com/local/lanow/la-me-ln-deal-port-dockworkers-automation-ilwu-union-permit-245-maersk-robot-jobs-20190628-story.html>.
- Sorensen, J. (2018). *Decisions and values: Engineering design as a pragmatic and sociomaterial negotiation process* (REELER Working Paper Series no. 4). Retrieved from http://reeler.eu/fileadmin/user_upload/REELER/WP04_Decisions_and_values.pdf.
- Sorensen, J. (2019). Toward a pragmatic and social engineering ethics. *Paladyn, Journal of Behavioral Robotics*, 10(1), 207-218.
- Sparrow, R. (2007). Killer Robots. *Journal of Applied Philosophy*, 24(1), 62-77.
- Spinoni, E. (2018). *Descriptive statistics on spatio-temporal dynamics in robotics* (Master's thesis, University of Hohenheim, Stuttgart, Germany).
- Spinuzzi, C. (2005). The methodology of participatory design. *Technical Communication*, 52(2), 163-174.
- Standing, G. (2011). *The precariat: the new dangerous class*. New York, NY: Bloomsbury Academic.
- (2014). A precariat charter: From denizens to citizens. New York, NY: Bloomsbury Academic.
- (2017). Basic Income: And How We Can Make it Happen. London: Pelican.
- Steinert, S. (2014). The five robots—a taxonomy for roboethics. *International Journal of Social Robotics*, 6(2), 249-260.
- Stone, W. L. (2005). The history of robotics. In T. R. Kurfess (Ed.), *Robotics and automation handbook*. Boca Raton, FL: CRC Press.
- Suchman, L. (2007). *Human-Machine Reconfigurations: Plans and Situated Actions* (2nd ed.). Cambridge: Cambridge University Press.
- Sullins, J. P. (2011). Introduction: Open questions in roboethics. *Philosophy & Technology*, 24(3), 233-238.

- Šabanović, S. (2014). Inventing Japan's 'robotics culture': The repeated assembly of science, technology, and culture in social robotics. *Social Studies of Science*, 44(3), 342-367.
- Šabanović, S., Michalowski, M.P., & Simmons, R. (2006, March). *Robots in the wild: observing human-robot social interaction outside the lab*. Paper presented at the 9th IEEE International Workshop on Advanced Motion Control. Retrieved from <https://ieeexplore.ieee.org/document/1631758>.
- Tay, B., Jung, Y., & Park, T. (2014). When stereotypes meet robots: The double-edge sword of robot gender and personality in human–robot interaction. *Computers in Human Behavior*, 38(1), 75-84.
- Ter Wal, A. (2014). The dynamics of the inventor network in German biotechnology: geographic proximity versus triadic closure. *Journal of Economic Geography*, 14(3), 589–620.
- Thuemmel, U. (2018). *Optimal taxation of Robots* (CESIFO Working paper series, nr. 7317). Retrieved from https://www.cesifo-group.de/DocDL/cesifo1_wp7317.pdf
- Thorpe, A., & Gamman, L. (2011). Design with society: why socially responsive design is good enough. *CoDesign: International journal of cocreation in desing and the arts*, 7(3-4), 217-230.
- Tidd, J., Bessant, J., & Pavitt, K. (2001). *Managing innovation: Integrating technological, market and organizational change* (2nd ed.). Chichester: Wiley.
- Turkle, S. (1986). Computational Reticence: Why Women Fear the Intimate Machine. In C. Kramarae (Ed.), *Technology and Women's Voices* (pp. 41-61). New York, NY: Pergamon Press.
- Tversky, A., & Kahneman, D. (1974). Judgment under Uncertainty: Heuristics and Biases. *Science*, 185(4157), 1124-1131.
- Tzafestas, S. (2018). Roboethics: Fundamental Concepts and Future Prospects. *Information*.
- Ulrich, K., & Eppinger, S.D. (2016). *Product Design and Development* (6th ed.). New York, NY: McGraw-Hill.
- Utterback, J., & Abernathy, W. J. (1975). A dynamic model of process and product innovation. *Omega*, 3(6), 639-656.
- Van der Burg, S., van Gorp, A. (2005). Understanding moral responsibility in the design of trailers. *Science and Engineering Ethics*, 11(2), 235-256.
- Van Wynsberghe, A., & Robbins, S. (2014). Ethicist as Designer: A pragmatic approach to ethics in the lab. *Science and Engineering Ethics*, 20(4), 947-961.
- Vermeulen, B. (2018). Geographical dynamics of knowledge flows: descriptive statistics on inventor network distance and patent citation graphs in the pharmaceutical industry. *International Journal of Computational Economics and Econometrics*, 8(3-4), 301-324.
- Vermeulen, B., Kesselhut, J., Pyka, A., & Saviotti, P.-P. (2018). The Impact of Automation on Employment: Just the Usual Structural Change? *Sustainability*, 10(5), 1-27.
- Vermeulen, B., & Pyka, A. (2017). The role of network topology and the spatial distribution and structure of knowledge in regional innovation policy: a calibrated agent-based model study. *Computational Economics*, 52(3), 773-808.
- Vermeulen, B., Chie, B.-T., Pyka, A., & Chen, S.-H. (forthcoming). Coping with bounded rationality, uncertainty, and scarcity in product development decisions: experimental research. In: E. Buccarelli, S.-H. Chen., J. M. Corchado (Eds.), *Decision Economics: Complexity of decisions and decisions for complexity*. Berlin: Springer Verlag.
- Vermeulen, B., Pyka, A., & Saviotti, P.-P. (forthcoming). Robots, structural change and employment: future scenarios. In K. F. Zimmermann. (Ed.), *Handbook of Labor, Human Resources and Population Economics*. Berlin: Springer.
- Verona, G., & Ravasi, D. (2003). Unbundling dynamic capabilities: an exploratory study of continuous product innovation. *Industrial and corporate change*, 12(3), 577-606.
- Veruggio, G. O. (2006). Roboethics: a Bottom-up Interdisciplinary Discourse in the Field of Applied Ethics in Robotics. *International Review of Information Ethics*, 6(12), 2-8.
- Vivarelli, M. (2007). *Innovation and Employment* (IZA Discussion Papers, No. 2621) Retrieved from <http://anon-ftp.iza.org/dp2621.pdf>
- (2014). Innovation, employment, and skills in advanced and developing countries: A survey of the economic literature. *Journal of Economic Issues*, 48(1), 123-154.
- (2015). Innovation and employment. Technological unemployment is not inevitable—some innovation creates jobs, and some job destruction can be avoided. *IZA World of labor*. Retrieved from <https://wol.iza.org/uploads/articles/154/pdfs/innovation-and-employment.pdf?v=1>
- Voice, P. (2015). Labour, work and action, Hannah Arendt : Key Concepts. Oxford: Taylor & Francis Ltd.
- Wajcman, J. (2010). Feminist Theories of Technology. *Cambridge Journal of Economics*, 34(1), 143–152.
- Weber, J. (2005). Helpless machines and true loving care givers: a feminist critique of recent trends in human-robot interaction. *Journal of Information, Communication and Ethics in Society*, 3(4), 209-218.
- Weil, V. (1984). The rise of engineering ethics. *Technology in Society*, 6(4), 341-345.
- Wittgenstein, L. (1965). A Lecture on Ethics. *The Philosophical Review*, 74(1), 3-12.
- (2010). *Tractatus Logico-Philosophicus*. The Project Gutenberg EBook. Original work published 1921. Retrieved from <http://www.gutenberg.org/files/5740/5740-pdf.pdf>.
- World Economic Forum (2018). The future of jobs report. Retrieved from http://www3.weforum.org/docs/WEF_Future_of_Jobs_2018.pdf.
- Zahra, S. A., & George, G. (2002). Absorptive capacity: a review, reconceptualization, and extension. *Academy of Management Review*, 27(2), 185–203.