

# References

- Abdel-Basset, M., Manogaran, G., & Mohamed, M. (2018). Internet of Things (IoT) and its impact on supply chain: A framework for building smart, secure and efficient systems. *Future Generation Computer Systems*, 86, 614–628. doi:[10.1016/j.future.2018.04.051](https://doi.org/10.1016/j.future.2018.04.051)
- Abo Bakr, A., & Azer, M. (2017). *IoT ethics challenges and legal issues* (pp. 233–237). doi:[10.1109/ICCES.2017.8275309](https://doi.org/10.1109/ICCES.2017.8275309)
- Absolutenet. (2020). Ten e-commerce trends in 2020. Retrieved from <https://10ecommercetrends.com/>. Accessed on May 2, 2021.
- Acar, A. Z., & Acar, P. (2012). The effects of organizational culture and innovativeness on business performance in healthcare industry. *Procedia-Social and Behavioral Sciences*, 58, 683–692. doi:[10.1016/j.sbspro.2012.09.1046](https://doi.org/10.1016/j.sbspro.2012.09.1046)
- Acatech. (2013). Recommendations for implementing the strategic initiative industry 4.0. Final report of the industry 4.0 working group. en.acatech.de.
- Açıkgoz, Ö., & Günay, A. (2020). The early impact of the Covid-19 pandemic on the global and Turkish economy. *Turkish Journal of Medical Sciences*, 50(SI-1), 520–526. doi:[10.3906/sag-2004-6](https://doi.org/10.3906/sag-2004-6)
- Ahmed, E., Yaqoob, I., Hashem, I. A. T., Khan, I., Ahmed, A. I. A., Imran, M., & Vasilakos, A. V. (2017). The role of big data analytics in Internet of Things. *Computer Networks*, 129, 459–471. doi:[10.1016/j.comnet.2017.06.013](https://doi.org/10.1016/j.comnet.2017.06.013)
- Aichner, T., & Shaltoni, A. M. (2017). Marketing of specialised products and services to consumers with disabilities: Exploring the role of advertising, country-of-origin, and e-commerce. *International Review of Retail Distribution & Consumer Research*, 28(2), 115–136. doi:[10.1080/09593969.2017.1364658](https://doi.org/10.1080/09593969.2017.1364658)
- Aizam, M. A. M., Hadis, N. S. M., & Abdullah, S. (2020). IoT-based smart wheelchair system for physically impaired person. *ESTEEM Academic Journal*, 16, 59–73.
- Ajzen, I. (1991). The theory of planned behavior. *Organizational Behavior and Human Decision Processes*, 50(2), 179–211.
- Akben, İ., & Avşar, İ. İ. (2017). Dijital Tedarik Zinciri ve Bulut Bilişim – Digital supply chain and cloud computing. El-Ruha, pp. 104–113.
- Akçacı, T., & Çınaroğlu, M. S. (2020). Yeni Koronavirüs (COVID-19) Salgınının Lojistik ve Ticarete Etkisi. *Gaziantep Üniversitesi Sosyal Bilimler Dergisi*, 19, 447–456 (COVID-19 Special Issue). doi:[10.21547/jss.766159](https://doi.org/10.21547/jss.766159)
- Akre, V., Rajan, A., Ahamed, J., Al Amri, A., & Al Daisi, S. (2019, November). Smart digital marketing of financial services to millennial generation using emerging technological tools and buyer persona. In *2019 sixth HCT information technology trends (ITT)* (pp. 120–125). IEEE. doi:[10.1109/ITT48889.2019.9075106](https://doi.org/10.1109/ITT48889.2019.9075106)
- Aksu, H., Babun, L., Conti, M., Tolomei, G., & Uluagac, A. S. (2018). Advertising in the IoT era: Vision and challenges. *IEEE Communications Magazine*, 56(11), 138–144. doi:[10.1109/MCOM.2017.1700871](https://doi.org/10.1109/MCOM.2017.1700871)

## 186 References

- Aktifbank. (2020). Ekolig – Football economy before/after COVID 19 – Impact of COVID 19 pandemic on football economy. Retrieved from <https://www.aktifbank.com.tr/Documents/aktif-bank-ekolig-COVID-19.pdf>
- Alavi, A. H., Jiao, P., Buttlar, W. G., & Lajnef, N. (2018). Internet of things-enabled smart cities: State-of-the-art and future trends. *Measurement*, 129, 589–606. doi: [10.1016/j.measurement.2018.07.067](https://doi.org/10.1016/j.measurement.2018.07.067)
- Aldossari, M. Q., & Sidorova, A. (2020). Consumer acceptance of Internet of Things (IoT): Smart home context. *Journal of Computer Information Systems*, 60(6), 507–517. doi: [10.1080/08874417.2018.1543000](https://doi.org/10.1080/08874417.2018.1543000)
- Al-Hitmi, M., & Sherif, K. (2018). Employee perceptions of fairness toward IoT monitoring. *VINE Journal of Information and Knowledge Management Systems*, 48(4), 504–516. doi: [10.1108/VJIKMS-01-2018-0007](https://doi.org/10.1108/VJIKMS-01-2018-0007)
- AlHogail, A., & AlShahrani, M. (2018, July). Building consumer trust to improve Internet of Things (IoT) technology adoption. In *International conference on applied human factors and ergonomics* (pp. 325–334). Cham: Springer.
- Allen, D. (2020). Blockchain governance: What we can learn from the economics of corporate governance. *The Journal of The British Blockchain Association*, 3(1), 1–10. doi: [10.31585/jbba-3-1-\(8\)2020](https://doi.org/10.31585/jbba-3-1-(8)2020)
- Almeida, L., Neris, V., Miranda, L., Hayashi, E., & Baranauskas, M. (2009). Designing inclusive social networks: A participatory approach. In *International conference on online communities and social computing* (Vol. 5621, pp. 653–662). Berlin: Springer. doi: [10.1016/j.elearap.2012.12.003](https://doi.org/10.1016/j.elearap.2012.12.003)
- Alnipak, S., & Duygun, A. (2018). Türkiye'deki konteyner limanlarının web sitelerinin içerik analizi. *İs. Guc Industrial Relations and Human Resources Journal*, 20(2), 57–74. doi: [10.4026/iscguc.431027](https://doi.org/10.4026/iscguc.431027)
- Alvy, L. M., & Calvert, S. L. (2008). Food marketing on popular children's web sites: A content analysis. *Journal of the American Dietetic Association*, 108, 710–713. doi: [10.1016/j.jada.2008.01.006](https://doi.org/10.1016/j.jada.2008.01.006)
- American Psychiatric Association. (2000). *Diagnostic and statistical manual of mental disorders* (4th ed., Text Revision). American Psychiatric Association.
- Anders, G. (2014). The obsolescence of man, volume II: On the destruction of life in the epoch of the third industrial revolution. Translated in June-December 2014 from the Spanish translation: Günther Anders, La Obsolescencia del Hombre (Vol. II) Sobre la destrucción de la vida en la época de la tercera revolución industrial, tr. Josep Monter Pérez, Pre-Textos (Translators), Valencia, 2011. Originally published under the title: Die Antiquiertheit des Menschen II. Retrieved from <https://libcom.org/files/ObsolescenceofManVol%20IIGunther%20Anders.pdf>
- André, Q., Carmon, Z., Wertenbroch, K., Crum, A., Frank, D., Goldstein, W., ... Yang, H. (2018). Consumer choice and autonomy in the age of artificial intelligence and big data. *Customer Needs and Solutions*, 5(1), 28–37. doi: [10.1007/s40547-017-0085-8](https://doi.org/10.1007/s40547-017-0085-8)
- Andreoni, V. (2021). Estimating the European CO<sub>2</sub> emissions change due to COVID-19 restrictions. *The Science of the Total Environment*, 769. doi: [10.1016/j.scitotenv.2021.145115](https://doi.org/10.1016/j.scitotenv.2021.145115)
- Andrienko, O. (2020). Ecommerce & consumer trends during coronavirus. Retrieved from <https://www.semrush.com/blog/ecommerce-covid-19/>. Accessed on June 2, 2021.

- Antweiler, W., Copeland, B. R., & Taylor, M. S. (2001). Is free trade good for the environment? *American Economic Review*, 91, 877–908. doi:10.1257/aer.91.4.877
- Anurag. (2017). Top 10 cloud computing examples and uses. Retrieved from <https://www.newgenapps.com/blog/top-10-cloud-computing-examples-and-uses/>. Accessed on November 15, 2020.
- Ardito, L., Petruzzelli, A. M., Panniello, U., & Garavelli, A. C. (2019). Towards Industry 4.0: Mapping digital technologies for supply chain management-marketing integration. *Business Process Management Journal*, 25(2), 323–346. doi:10.1108/BPMJ-04-2017-0088
- AR Insider. (2020). How is AR transforming consumer behavior? Retrieved from <https://arinsider.co/2020/08/19/how-is-ar-transforming-consumer-behavior/>. Accessed on November 12, 2020.
- Arthur, L. (2013). *Big data marketing: Engage your customers more effectively and drive value*. Hoboken, NJ: Wiley.
- Aselsan. (2020). 2020 Yılı 3.Çeyrek Yıl Finansalları Bilgilendirme Notu. Retrieved from [https://www.aselsan.com.tr/Bilgilendirme\\_Notu\\_202009\\_8666.pdf](https://www.aselsan.com.tr/Bilgilendirme_Notu_202009_8666.pdf). Accessed on February 27, 2021.
- Ashford, S. J., Caza, B. B., & Reid, E. M. (2018). From surviving to thriving in the gig economy: A research agenda for individuals in the new world of work. *Research in Organizational Behavior*, 38, 23–41. doi:10.1016/j.riob.2018.11.001
- Ashton, K. (2009). That ‘internet of things’ thing. *RFID Journal*, 22(7), 97–114.
- Ataman, G. (2002). Tedarik Zinciri ve Yönetimi: Değişim Mühendisliği ve Dış Kaynaklardan Yararlanma İlişkisi Üzerine Bir İrdeleme. *Öneri Dergisi*, 5(7), 35–42. doi:10.14783/maruoneri.683355
- Atlam, H. F., & Wills, G. B. (2020). IoT security, privacy, safety and ethics. In *Digital twin technologies and smart cities* (pp. 123–149). Cham: Springer.
- Attaran, M. (2004). Exploring the relationship between information technology and business process reengineering. *Information & Management*, 41(5), 585–596. doi:10.1016/S0378-7206(03)00098-3
- Aydin, E., & Savrul, B. K. (2014). The relationship between globalization and e-commerce: Turkish case. *Procedia – Social and Behavioral Sciences*, 150, 1267–1276. doi:10.1016/j.sbspro.2014.09.143
- Azoulay, A., et al (2020). *Eight voices on the future of entertainment, culture, and sports*. Retrieved from <https://foreignpolicy.com/2020/08/15/COVID-19-pandemic-culture-sports-entertainment/>
- Baabdullah, A. M., Alalwan, A. A., Rana, N. P., Kizgin, H., & Patil, P. (2019). Consumer use of mobile banking (M-Banking) in Saudi Arabia: Towards an integrated model. *International Journal of Information Management*, 44, 38–52. doi:10.1016/j.ijinfomgt.2018.09.002
- Baars, H., & Kemper, H. G. (2008). Management support with structured and unstructured data—An integrated business intelligence framework. *Information Systems Management*, 25(2), 132–148. doi:10.1080/10580530801941058
- Bach, L., Mihaljevic, B., & Zagar, M. (2018). Comparative analysis of blockchain consensus algorithms. 1545–1550 doi:10.23919/MIPRO.2018.8400278
- Bachleda, C., & Ouaaziz, S. A. (2017). Consumer acceptance of cloud computing. *Services Marketing Quarterly*, 38(1), 31–45. doi:10.1080/15332969.2017.1271204

- Bag, S., Yadav, G., Wood, L. C., Dhamija, P., & Joshi, S. (2020). Industry 4.0 and the circular economy: Resource melioration in logistics. *Resources Policy*, 68, 1–16. doi:[10.1016/j.resourpol.2020.101776](https://doi.org/10.1016/j.resourpol.2020.101776)
- Baldwin, R. (2018). If this is globalization 4.0, what were the other three? *World Economic Forum*, 1–4.
- Baldwin, R., & di Mauro, B. W. (2020). Introduction. In R. Baldwin & B. W. di Mauro (Eds.), *Economics in the time of COVID-19* (pp. 59–73). London: CEPR Press.
- Baldwin, R., & Tomiura, E. (2020). Thinking ahead about the trade impact of COVID-19. In R. Baldwin & B. W. di Mauro (Eds.), *Economics in the time of COVID-19* (pp. 59–73). London: CEPR Press.
- Baloglu, S., & Pekcan, Y. A. (2006). The website design and internet site marketing practices of upscale and luxury hotels in Turkey. *Tourism Management*, 27, 171–176. doi:[10.1016/j.tourman.2004.07.003](https://doi.org/10.1016/j.tourman.2004.07.003)
- Bandura, A. (1986). *Social foundations of thought and action: A social cognitive theory*. Englewood Cliffs, NJ: Prentice-Hall.
- Banerjee, A. (2018). Blockchain technology: Supply chain insights from ERP. In *Advances in computers* (Vol. 111, pp. 69–98). Elsevier.
- Banger, G. (2016). *Endüstri 4.0 ve akıllı işletme*. Ankara: Dorlion Yayınları.
- Banger, G. (2018). *Endüstri 4.0-Ekstra*. Ankara: Dorlion Yayınları.
- Barkatullah, A. H., & Djumadi (2018). Does self-regulation provide legal protection and security to e-commerce consumers? *Electronic Commerce Research and Applications*, 30(May), 94–101. doi:[10.1016/j.elerap.2018.05.008](https://doi.org/10.1016/j.elerap.2018.05.008)
- Barnes, S. (2016, November 3). Understanding virtual reality in marketing: Nature, implications and potential. *SSRN Electronic Journal*, 1–51. doi:[10.2139/ssrn.2909100](https://doi.org/10.2139/ssrn.2909100)
- Barnes, P. (2018). Crypto currency and its susceptibility to speculative bubbles, manipulation, scams and fraud. *Journal of Advanced Studies in Finance (JASF)*, 9(2 (18)), 60–77.
- Barrales-Molina, V., Montes, F. J. L., & Gutierrez-Gutierrez, L. J. (2015). Dynamic capabilities, human resources and operating routines: A new product development approach. *Industrial Management & Data Systems*, 115(8), 1388–1411. doi:[10.1108/IMDS-02-2015-0058](https://doi.org/10.1108/IMDS-02-2015-0058)
- Barreto, L., Amaral, A., & Pereira, T. (2017). Industry 4.0 implications in logistics: An overview. *Procedia Manufacturing*, 13, 1245–1252. doi:[10.1016/j.promfg.2017.09.045](https://doi.org/10.1016/j.promfg.2017.09.045)
- Bartolomeu, P. C., Vieira, E., & Ferreira, J. (2018). IOTA feasibility and perspectives for enabling vehicular applications. 1–7.
- Barua, S. (2020). *Understanding coronanomics: The economic implications of the coronavirus (COVID-19) pandemic*. MPRA Paper No. 99693. doi:[10.2139/ssrn.3566477](https://doi.org/10.2139/ssrn.3566477)
- Başyazıcıoğlu, H. N., & Karamustafa, K. (2018). Marketing 4.0: Impacts of technological developments on marketing activities. *Kırıkkale Üniversitesi Sosyal Bilimler Dergisi*, 8(2), 621–640.
- Batavia, A. B., & Hammer, G. (1990). Toward the development of general consumer criteria for the evaluation of assistive devices. *Journal of Rehabilitation Research and Development*, 27(4), 425–436. doi:[10.1682/JRRD.1990.10.0425](https://doi.org/10.1682/JRRD.1990.10.0425)
- Bech, M. L., & Garratt, R. (2017, September). Central bank cryptocurrencies. *BIS Quarterly Review*, 55–70.

- Berelson, B. (1952). *Content analysis in communication research*. New York, NY: Free Press.
- Berentsen, A., & Schär, F. (2018). The case for central bank electronic money and the non-case for central bank cryptocurrencies. *Review*, 100(2), 97–106. doi:[10.20955/r.2018.97-106](https://doi.org/10.20955/r.2018.97-106)
- Bergvall-Kåreborn, B., & Howcroft, D. (2014). Amazon Mechanical Turk and the commodification of labour. *New Technology, Work and Employment*, 29(3), 213–223. doi:[10.1111/ntwe.12038](https://doi.org/10.1111/ntwe.12038)
- Bertalero, G., Rosa, A., & Chiara, B. D. (2020). Analysis of outsourcing conditions for freight transport and logistics among manufacturing companies: Insights from a review of data and a field investigation. AIIT 2nd international congress on transport infrastructure and systems in a changing world (TIS ROMA 2019), 23rd–24th September 2019, Rome, Italy. *Transportation Research, Procedia*, 45, 459–466. doi:[10.1016/j.trpro.2020.03.039](https://doi.org/10.1016/j.trpro.2020.03.039)
- Beyer, R. M., Manica, A., & Mora, C. (2021). Shifts in global bat diversity suggest a possible role of climate change in the emergence of SARS-CoV-1 and SARS-CoV-2. *The Science of the Total Environment*, 767, 145413. doi:[10.1016/j.scitotenv.2021.145413](https://doi.org/10.1016/j.scitotenv.2021.145413)
- Bhatti, A., Akram, H., Basit, H. M., Khan, A. U., Naqvi, S. M. R., & Bilal, M. (2020). E-commerce trends during COVID-19 pandemic. *International Journal of Future Generation Communication and Networking*, 13(2), 1449–1452.
- Bhushan, B., Khamparia, A., Sagayam, K. M., Sharma, S. K., Ahad, M. A., & Debnath, N. C. (2020). Blockchain for smart cities: A review of architectures, integration trends and future research directions. *Sustainable Cities and Society*, 61, 1–27. doi:[10.1016/j.scs.2020.102360](https://doi.org/10.1016/j.scs.2020.102360)
- Bijmolt, T. H., Broekhuis, M., De Leeuw, S., Hirche, C., Rooderkerk, R. P., Sousa, R., & Zhu, S. X. (2021). Challenges at the marketing–operations interface in omnichannel retail environments. *Journal of Business Research*, 122, 864–874. doi:[10.1016/j.jbusres.2019.11.034](https://doi.org/10.1016/j.jbusres.2019.11.034)
- Bissoli, A., Lavino-Junior, D., Sime, M., Encarnação, L., & Bastos-Filho, T. (2019). A human–machine interface based on eye tracking for controlling and monitoring a smart home using the internet of things. *Sensors*, 19(4), 859. doi:[10.3390/s19040859](https://doi.org/10.3390/s19040859)
- Blakstad, S., & Allen, R. (2018). Central bank digital currencies and cryptocurrencies. In *FinTech revolution* (pp. 87–112). Springer.
- Block, D. (2004). Globalization, transnational communication and the internet. *International Journal on Multicultural Societies*, 6(1), 13–28. Retrieved from [www.unesco.org/shs/ijms](http://www.unesco.org/shs/ijms)
- Blooloop. (2019, September 9). Accesibility at the national theatre. Retrieved from <https://blooloop.com/features/smart-caption-glasses-epson-national-theatre/>. Accessed on November 11, 2020.
- Boccia, A. A. (2018). Football & finance: Exploring the capital markets. Retrieved from <https://ggiforum.com/consulting/financial-developments/1237-football-finance-exploring-the-capital-markets.html>
- Bohn, J., Coroamă, V., Langheinrich, M., Mattern, F., & Rohs, M. (2005). Social, economic, and ethical implications of ambient intelligence and ubiquitous computing. In W. Weber, J. M. Rabaey, & E. Aarts (Eds.), *Ambient intelligence* (pp. 5–29). Berlin: Springer.

- Bonekamp, L., & Sure, M. (2015). Consequences of industry 4.0 on human labour and work organisation. *Journal of Business and Media Psychology*, 6(1), 33–40.
- Bora, T., & Erdoğan, N. (2017). Cüppenin, kılıçın ve kalemin mahcup yoksulları: Yeni kapitalizm, yeni işsizlik ve beyaz yakalılar. In T. Bora, A. Bora, N. Erdoğan, & İ. Üstün (Eds.), *Boşuna mı okuduk? Türkiye'de beyaz yakalı işsizliği* (6th ed., pp. 13–44). İstanbul: İletişim Yayımları (In Turkish).
- Borcuch, A., Borcuch, M. P., & Świerczyńska, U. (2012). The Influence of the Internet on globalization process. *Journal of Economics and Business Research*, 1, 118–129.
- Bowles, J. (2014). The computerisation of European jobs. Who will win and who will lose from the impact of new technology onto old areas of employment? Retrieved from <http://www.bruegel.org/nc/blog/detail/article/1394-the-computerisation-of-european-jobs/>
- Boyd, D. E., & Koles, B. (2019). Virtual reality and its impact on B2B marketing: A value-in-use perspective. *Journal of Business Research*, 100, 590–598. doi:[10.1016/j.jbusres.2018.06.007](https://doi.org/10.1016/j.jbusres.2018.06.007)
- Boyes, H., Hallaq, B., Cunningham, J., & Watson, T. (2018). The Industrial Internet of Things (IIoT): An analysis framework. *Computers in Industry*, 101, 1–12. doi:[10.1016/j.compind.2018.04.015](https://doi.org/10.1016/j.compind.2018.04.015)
- Bozomitu, R. G., Niță, L., Cehan, V., Alexa, I. D., Ilie, A. C., Păsărică, A., & Rotariu, C. (2019). A new integrated system for assistance in communicating with and telemonitoring severely disabled patients. *Sensors*, 19(9), 2026. doi:[10.3390/s19092026](https://doi.org/10.3390/s19092026)
- Breusch, T. S., & Pagan, A. R. (1980). The Lagrange multiplier test and its applications to model specification in econometrics. *Review of Economic Studies*, 47(1), 239–253. doi:[10.2307/2297111](https://doi.org/10.2307/2297111)
- Brose, S. W., Boninger, M. L., Fullerton, B., McCann, T., Collinger, J. L., Impink, B. G., & Dyson-Hudson, T. A. (2008). Shoulder ultrasound abnormalities, physical examination findings, and pain in manual wheelchair users with spinal cord injury. *Archives of Physical Medicine and Rehabilitation*, 89(11), 2086–2093. doi:[10.1016/j.apmr.2008.05.015](https://doi.org/10.1016/j.apmr.2008.05.015)
- Brynjolfsson, E., & McAfee, A. (2014). *The second machine age. Work, progress, and prosperity in a time of brilliant technologies*. New York, NY: W.W. Norton & Company.
- Bucherer, E., & Uckelmann, D. (2011). Business models for the internet of things. In D. Uckelmann, F. Michahelles, & M. Harisson (Eds.), *Architecting the internet of things*. Berlin: Springer.
- Budd, J. W. (2011). *The thought of work*. Ithaca and London: ILR Press and Imprint of Cornell University Press.
- Bugshan, H., & Attar, R. W. (2020). Social commerce information sharing and their impact on consumers. *Technological Forecasting and Social Change*, 153, 119875. doi:[10.1016/j.techfore.2019.119875](https://doi.org/10.1016/j.techfore.2019.119875)
- Bukova, B., Brumercikova, E., Cerna, L., & Drozdziel, P. (2018). The position of industry 4.0 in the worldwide logistics chains. *LOGI-Scientific Journal on Transport and Logistics*, 9(1), 18–23. doi:[10.2478/logi-2018-0003](https://doi.org/10.2478/logi-2018-0003)
- Bulao, J. (2020). Retrieved from <https://techjury.net/blog/how-much-data-is-created-every-day/#gref>

- Burnett, J. J., & Paul, P. (1996). Assessing the media habits and needs of the mobility-disabled consumer. *Journal of Advertising*, 25(3), 47–59. doi:[10.1080/00913367.1996.10673506](https://doi.org/10.1080/00913367.1996.10673506)
- Büyükbaykal, G., & Mutlu, E. (2020). An assessment of the impact of the COVID-19 pandemic on football economy. *Journal of Social, Humanities and Administrative Sciences*, 6(30), 1416–1625. doi:[10.31589/JOSHAS.404](https://doi.org/10.31589/JOSHAS.404)
- Büyükozan, G., & Güler, M. (2019). Lojistik 4.0 Teknolojilerinin Analizi için Metodolojik Yaklaşım. *Girişimcilik ve İnovasyon Yönetimi Dergisi*, 8(1), 21–47.
- Büyüközkan, G., & Göçer, F. (2018). Digital supply chain: Literature review and a proposed framework for future research. *Computers in Industry*, 97, 157–177. doi:[10.1016/j.compind.2018.02.010](https://doi.org/10.1016/j.compind.2018.02.010)
- Caiado, R. G. G., Scavarda, L. F., Gaviao, L. O., Ivson, P., de Mattos Nascimento, D. L., & Garza-Reyes, J. A. (2021). A fuzzy rule-based industry 4.0 maturity model for operations and supply chain management. *International Journal of Production Economics*, 231, 1–21. doi:[10.1016/j.ijpe.2020.107883](https://doi.org/10.1016/j.ijpe.2020.107883)
- Çakır, Z. (2020). The effects of the COVID-19 pandemic on sports, athletes and Trainers during the normalization phase. *The Online Journal of Recreation and Sport*, 9(3), 45–58. doi:[10.22282/ojrs.2020.70](https://doi.org/10.22282/ojrs.2020.70)
- Cameron, N. (2017). Science finds, industry applies, man conforms. But should it? Retrieved from <https://unherd.com/2017/12/science-finds-industry-applies-man-conforms/>
- Cano, S., Peñeynory, V., Collazos, C. A., & Albiol-Pérez, S. (2020). Designing internet of tangible things for children with hearing impairment. *Information*, 11(2), 70. doi:[10.3390/info11020070](https://doi.org/10.3390/info11020070)
- Car, T., Stifanich, L. P., & Šimunić, M. (2019). Internet of Things (IoT) in tourism and hospitality: Opportunities and challenges. *Tourism in South East Europe*, 5, 163–175. doi:[10.20867/tosee.05.42](https://doi.org/10.20867/tosee.05.42)
- Carlsson-Szlezak, P., Reeves, M., & Swartz, P. (2020). What coronavirus could mean for the global economy. *Harvard Business Review*, 3, 1–10.
- Çatikkas, Ö., & Duramaz, S. (2020). Küresel ve ulusal gelişmeler kapsamında sigortacılık sektörüne genel bir bakış. In S. Duramaz (Ed.), *Küreselleşmenin Finansal ve Reel Yaşama Yansımaları, Dünya'daki Son Gelişmeler ve Covid-19 Pandemisi Eşliğinde Sektörel Gelişim Süreçleri*. İstanbul: Beta Yayınevi.
- Çelik, R. (2020). Lojistik sektöründe kullanılan yeni bilişim sistemleri: Lojistik 4.0 örneği. *Balkan ve Yakın Doğu Sosyal Bilimler Dergisi*, 6(4), 85–90.
- Cenat, J. M. (2020). Globalization, internet and psychiatric disorders: Call for research and action in global mental health. *Neurology, Psychiatry and Brain Research*, 36(February), 27–29. doi:[10.1016/j.npbr.2020.02.007](https://doi.org/10.1016/j.npbr.2020.02.007)
- Cerulli, G. (2017). Estimating responsiveness scores using rscore. *The Stata Journal*, 17(2), 422–441. doi:[10.1177/1536867X1701700210](https://doi.org/10.1177/1536867X1701700210)
- Ceylan, S. (2018). Termal otellerin web siteleri içerik analizi. 2nd international symposium on innovative approaches in scientific studies, November 30–December 2, Samsun, Turkey. *SETSCI*, 3, 124–128.
- Chaim, P., & Laurini, M. P. (2018). Volatility and return jumps in bitcoin. *Economics Letters*, 173, 158–163. doi:[10.1016/j.econlet.2018.10.011](https://doi.org/10.1016/j.econlet.2018.10.011)
- Chakraborty, G., Srivastava, P., & Warren, D. L. (2005). Understanding corporate B2B web sites' effectiveness from North American and European perspective. *Industrial Marketing Management*, 34(5), 420–429. doi:[10.1016/j.indmarman.2004.09.008](https://doi.org/10.1016/j.indmarman.2004.09.008)

- Chan, Z. Y., & Shum, P. (2018, September). Smart office: A voice-controlled workplace for everyone. In *Proceedings of the 2nd international symposium on computer science and intelligent control* (pp. 1–5).
- Chen, C. H., Lee, I. J., & Lin, L. Y. (2015). Augmented reality-based self-facial modeling to promote the emotional expression and social skills of adolescents with autism spectrum disorders. *Research in Developmental Disabilities*, 36, 396–403. doi:[10.1016/j.ridd.2014.10.015](https://doi.org/10.1016/j.ridd.2014.10.015)
- Chen, C. L. (2019). Value creation by SMEs participating in global value chains under industry 4.0 trend: Case study of textile industry in Taiwan. *Journal of Global Information Technology Management*, 22(2), 120–145. doi:[10.1080/1097198X.2019.1603512](https://doi.org/10.1080/1097198X.2019.1603512)
- Chen, S., Kang, J., Liu, S., & Sun, Y. (2019). Cognitive computing on unstructured data for customer co-innovation. *European Journal of Marketing*, 54(3), 570–593. doi:[10.1108/EJM-01-2019-0092](https://doi.org/10.1108/EJM-01-2019-0092)
- Chen, Y., Zhang, H., & Zhang, Y. (2010). Research on the development of internet of things industry in China. *Science and Technology Management Research*, 30(20), 103–106.
- Cherribi, O. (2003). Internet, global aspects of. In D. H. Johnston (Ed.), *Encyclopedia of international media and communications* (pp. 517–525). New York, NY: Academic Press.
- Choi, H., Lee, W., Jung, Y., & Baek, Y. (2006). LITeTag: Design and implementation of an RFID system for IT-based port logistics. *Journal of Communications*, 1(4), 48–57.
- Choi, T. M. (2020). Innovative “bring-service-near-your-home” operations under Coro-na-virus (COVID-19/SARS-CoV-2) outbreak: Can logistics become the messiah? *Transportation Research Part E: Logistics and Transportation Review*, 140, 101961. doi:[10.1016/j.tre.2020.101961](https://doi.org/10.1016/j.tre.2020.101961)
- Chopra, K. (2019). Indian shopper motivation to use artificial intelligence. *International Journal of Retail & Distribution Management*, 47(3), 331–347. doi:[10.1108/IJRDM-11-2018-0251](https://doi.org/10.1108/IJRDM-11-2018-0251)
- Christidis, K., & Mentzas, G. (2013). A topic-based recommender system for electronic marketplace platforms. *Expert Systems with Applications*, 40(11), 4370–4379. doi:[10.1016/j.eswa.2013.01.014](https://doi.org/10.1016/j.eswa.2013.01.014)
- Chui, M., Loffler, M., & Roberts, R. (2010). *The internet of things*. McKinsey Global Institute.
- Cimini, C., Lagorio, A., Pirola, F., & Pinto, R. (2019). Exploring human factors in logistics 4.0: Empirical evidence from a case study. *IFAC Papers OnLine*, 52(13), 2183–2188. doi:[10.1016/j.ifacol.2019.11.529](https://doi.org/10.1016/j.ifacol.2019.11.529)
- Cisco. (2011). The internet of things how the next evolution of the internet is changing everything. Retrieved from [https://www.cisco.com/c/dam/en\\_us/about/ac79/docs/innov/IoT\\_IBSG\\_0411FINAL.pdf](https://www.cisco.com/c/dam/en_us/about/ac79/docs/innov/IoT_IBSG_0411FINAL.pdf). Accessed on February 27, 2021.
- Citroën, P. (2020). COVID-19 and its impact on the European rail supply industry. Retrieved from <https://www.globalrailwayreview.com/article/98741/covid19-european-rail-supply-industry/>. Accessed on February 14, 2021.
- Coetzee, L., & Olivrin, G. (2012). Inclusion through the internet of things. In F. A. Cheein (Ed.), *Assistive technologies* (pp. 51–78). Rijeka: IntechOpen. Retrieved from <http://www.intechopen.com/books/assistive-technologies/inclusion-through-the-internet-of-things>. ISBN:978-953-51-0348-6.

- Cohen, B., Amorós, J. E., & Lundy, L. (2017). The generative potential of emerging technology to support startups and new ecosystems. *Business Horizons*, 60(6), 741–745. doi:[10.1016/j.bushor.2017.06.004](https://doi.org/10.1016/j.bushor.2017.06.004)
- Colbert, S., Thornton, L., & Richmond, R. (2020). Content analysis of websites selling alcohol online in Australia. *Drug and Alcohol Review*, 39(2), 162–169. doi:[10.1111/dar.13025](https://doi.org/10.1111/dar.13025)
- Coleman, D. C. (1956). Industrial growth and industrial revolutions. *Economica*, 23(89), 1–22. doi:[10.2307/2551266](https://doi.org/10.2307/2551266)
- Connolly, E. (2020). Now what? Five scenarios for the post-coronavirus sports industry. Retrieved from <https://www.sportspromedia.com/from-the-magazine/five-scenarios-coronavirus-sports-industry-tv-rights-recession>
- Constitution of the Republic of Turkey, (consolidated as of 2001). Türkiye Cumhuriyeti Anayasası. Retrieved from [https://global.tbmm.gov.tr/docs/constitution\\_en.pdf](https://global.tbmm.gov.tr/docs/constitution_en.pdf). Accessed on November 10, 2020.
- Corbet, S., Lucey, B., Urquhart, A., & Yarovaya, L. (2019). Cryptocurrencies as a financial asset: A systematic analysis. *International Review of Financial Analysis*, 62, 182–199. doi:[10.1016/j.irfa.2018.09.003](https://doi.org/10.1016/j.irfa.2018.09.003)
- Coupe, T. (2019). Automation, job characteristics and job insecurity. *International Journal of Manpower*, 40(7), 1288–1304. doi:[10.1108/IJM-12-2018-0418](https://doi.org/10.1108/IJM-12-2018-0418)
- Crnjac, M., Veža, I., & Banduka, N. (2017). From concept to the introduction of industry 4.0. *International Journal of Industrial Engineering and Management*, 8(1), 21–30.
- Dai, H. N., Wang, H., Xu, G., Wan, J., & Imran, M. (2020). Big data analytics for manufacturing internet of things: Opportunities, challenges and enabling technologies. *Enterprise Information Systems*, 14(9–10), 1279–1303. doi:[10.1080/17517575.2019.1633689](https://doi.org/10.1080/17517575.2019.1633689)
- Dai, Q., & Kauffman, R. J. (2002). Business models for internet-based B2B electronic markets. *International Journal of Electronic Commerce*, 6(4), 41–72. doi:[10.1080/10864415.2002.11044247](https://doi.org/10.1080/10864415.2002.11044247)
- Daly, H. E. (1993). The perils of free trade. *Scientific American*, 269(5), 50–57. doi:[10.1038/scientificamerican1193-50](https://doi.org/10.1038/scientificamerican1193-50)
- Danezis, G., & Meiklejohn, S. (2015). Centrally banked cryptocurrencies. ArXiv Preprint ArXiv:1505.06895.
- D'Art, D., & Turner, T. (2006). New working arrangements: Changing the nature of the employment relationship? *The International Journal of Human Resource Management*, 17(3), 523–538. doi:[10.1080/09585190500521656](https://doi.org/10.1080/09585190500521656)
- Das, R., Tuna, A., Demirel, S., & Yurdakul, M. K. (2017). A survey on the internet of things solutions for the elderly and disabled: Applications, prospects, and challenges. *International Journal of Computer Networks and Applications*, 4(3), 84–92. doi:[10.22247/ijcna/2017/49023](https://doi.org/10.22247/ijcna/2017/49023)
- Das, T. K., & Kumar, P. M. (2013). Big data analytics: A framework for unstructured data analysis. *International Journal of Engineering Science & Technology*, 5(1), 153–156.
- Dash, G., Kiefer, K., & Paul, J. (2021). Marketing-to-Millennials: Marketing 4.0, customer satisfaction and purchase intention. *Journal of Business Research*, 122, 608–620. doi:[10.1016/j.jbusres.2020.10.016](https://doi.org/10.1016/j.jbusres.2020.10.016)

## 194 References

- Davenport, T., Guha, A., Grewal, D., & Bressgott, T. (2020). How artificial intelligence will change the future of marketing. *Journal of the Academy of Marketing Science*, 48(1), 24–42. doi:10.1007/s11747-019-00696-0
- Davenport, T. H., Barth, P., & Bean, R. (2012). How ‘big data’ is different. *MIT Sloan Management Review*, 54(1), 22–24.
- Davidson, C. (2000). Economic growth and the environment: Alternatives to the limits paradigm. *BioScience*, 50(5), 433–440. doi:10.1641/0006-3568(2000)050[0433:EGATEA]2.0.CO;2
- Davis, F. D. (1986). *A technology acceptance model for empirically testing new end-user information systems: Theory and result*. Ph.D. dissertation, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA.
- Davis, R., Sessions, B. O., & Check, A. R. (2015). Industry 4.0. Digitalisation for productivity and growth. European Parliament, Members’ Research Service.
- De Mauro, A., Greco, M., Grimaldi, M., & Ritala, P. (2018). Human resources for big data professions: A systematic classification of job roles and required skill sets. *Information Processing & Management*, 54(5), 807–817. doi:10.1016/j.ipm.2017.05.004
- Dedeke, A. (2012). Improving legacy-system sustainability: A systematic approach. *IT Professional*, 14(1), 38–43. doi:10.1109/MITP.2012.10
- De Stefano, V. (2016). *The rise of the “just-in-time workforce”: On-demand work, crowdwork and labour protection in the “gig-economy”*. International labour office, inclusive labour markets, labour relations and working conditions branch. Conditions of work and employment series; No. 71. Retrieved from [https://www.ilo.org/wcmsp5/groups/public/-ed\\_protect/-protrav/-travail/documents/publication/wcms\\_443267.pdf](https://www.ilo.org/wcmsp5/groups/public/-ed_protect/-protrav/-travail/documents/publication/wcms_443267.pdf)
- Del Giudice, M., & Al-Mashari, M. (2016). Discovering the Internet of Things (IoT) within the business process management: A literature review on technological revitalization. *Business Process Management Journal*, 22(2), 263–270. doi:10.1108/BPMJ-12-2015-0173
- Deloitte. (2018). *Preparing tomorrow’s workforce for the fourth industrial revolution for business: A framework for action*. Report prepared in coordination with Global Business Coalition for Education. Retrieved from <https://www2.deloitte.com/content/dam/Deloitte/global/Documents/About-Deloitte/gx-preparing-tomorrow-workforce-for-4IR.pdf>
- Deloitte. (2020a). COVID-19, football & digital: 2020/21 season & beyond. Retrieved from <https://www2.deloitte.com/uk/en/pages/sports-business-group/articles/COVID-19-football-and-digital-2020-21-season-and-beyond.html>
- Deloitte. (2020b). Küresel covid-19 salgınının Türkiye’de farklı kategorilere etkileri. Retrieved from <https://www2.deloitte.com/content/dam/Deloitte/tr/>. Accessed on February 6, 2021.
- Denecke, K., & Nejdl, W. (2009). How valuable is medical social media data? Content analysis of the medical web. *Information Sciences*, 179(12), 1870–1880. doi:10.1016/j.ins.2009.01.025
- Dengiz, O. (2017). Endüstri 4.0: Üretimde Kavram ve Algı Devrimi. *Makina Tasarım ve İmalat Dergisi*, 15(1), 38–45.
- Deshkar, S., Thanseeh, R. A., & Menon, V. G. (2017). A review on IoT based m-Health systems for diabetes. *International Journal of Computer Science and Telecommunications*, 8(1), 13–18.

- Dev, N. K., Shankar, R., & Swami, S. (2020). Diffusion of green products in industry 4.0: Reverse logistics issues during design of inventory and production planning system. *International Journal of Production Economics*, 223, 1–16. doi:[10.1016/j.ijpe.2019.107519](https://doi.org/10.1016/j.ijpe.2019.107519)
- Devi, K. K., & Verna, M. K. (2018). Content analysis based evaluation of library websites: A case study. *Annals of Library and Information Studies*, 65(4), 239–251. Retrieved from <http://op.niscair.res.in/index.php/ALIS/article/viewFile/21657/465464946>
- Dhawan, A., & Putniņš, T. J. (2020, August 10). A new wolf in town? Pump-and-dump manipulation in cryptocurrency markets. *Pump-and-Dump Manipulation in Cryptocurrency Markets*, 1–48. doi:[10.2139/ssrn.3670714](https://doi.org/10.2139/ssrn.3670714)
- Dholakia, N., Zwick, D., & Denegri-Knott, J. (2010). Technology, consumers, and marketing theory. In P. Maclaran, M. Saren, B. Stern, & M. Tadajewski (Eds.), *The SAGE handbook of marketing theory* (pp. 494–511). London: Sage.
- Digital Marketing Institute. (2014). 7 examples of successful virtual reality Marketing. Retrieved from <https://digitalmarketinginstitute.com/blog/7-examples-of-successful-virtual-reality-marketing>. Accessed on November 15, 2020.
- Dimitrieska, S., Stankovska, A., & Efremova, T. (2018). Artificial intelligence and marketing. *Entrepreneurship*, 6(2), 298–304.
- Disability and Employment. (n.d.). Factsheet on person with disabilities. Retrieved from <https://www.un.org/development/desa/disabilities/resources/factsheet-on-persons-with-disabilities/disability-and-employment.html>. Accessed on February 10, 2021.
- Dobni, D., & Zinkhan, G. M. (1990). In search of brand image: A foundation analysis. *ACR North American Advances*, 17, 110–119.
- Doğrul, M., & Korkut, C. (n.d.). The future of cryptocurrency after the pandemic. In *Reflections on the pandemic* (Vol. 641). Ankara: TÜBA (Turkish Academy of Sciences).
- Domingo, M. C. (2012). An overview of the internet of things for people with disabilities. *Journal of Network and Computer Applications*, 35(2), 584–596. doi:[10.1016/j.jnca.2011.10.015](https://doi.org/10.1016/j.jnca.2011.10.015)
- Doucette, M. H., & Bradford, W. D. (2019). Dual job holding and the gig economy: Allocation of effort across primary and gig job. *Southern Economic Journal*, 85, 1217–1242. doi:[10.1002/soej.12338](https://doi.org/10.1002/soej.12338)
- Drath, R., & Horch, A. (2014). Industrie 4.0: Hit or hype? *IEEE Industrial Electronics Magazine*, 8(2), 56–58. doi:[10.1109/MIE.2014.2312079](https://doi.org/10.1109/MIE.2014.2312079)
- Drewes, M., Daumann, F., & Follert, F. (2020). Exploring the sports economic impact of COVID-19 on professional soccer. *Soccer and Society*, 22(1–2), 1–13. doi:[10.1080/14660970.2020.1802256](https://doi.org/10.1080/14660970.2020.1802256)
- Du, K. (2017). Econometric convergence test and club clustering using stata. *The Stata Journal*, 17(4), 882–900. doi:[10.1177/1536867X1801700407](https://doi.org/10.1177/1536867X1801700407)
- Duang-Ek-Anong, S., Pibulcharoensit, S., & Phongsatha, T. (2019). Technology readiness for Internet of Things (IoT) adoption in smart farming in Thailand. *International Journal of Simulation. Systems, Science and Technology*, 20(5), 1–6.
- Dubey, R., Gunasekaran, A., Childe, S. J., Fosso Wamba, S., Roubaud, D., & Foropon, C. (2021). Empirical investigation of data analytics capability and organizational flexibility as complements to supply chain resilience. *International Journal of Production Research*, 59(1), 110–128. doi:[10.1080/00207543.2019.1582820](https://doi.org/10.1080/00207543.2019.1582820)

## 196 References

- Dumitrescu, E. I., & Hurlin, C. (2012). Testing for granger noncausality in heterogeneous panels. *Economic Modelling*, 29(4), 1450–1460. doi:[10.1016/j.econmod.2012.02.014](https://doi.org/10.1016/j.econmod.2012.02.014)
- Duygun, A., & Alnipak, S. (2017). Web sitelerinin pazarlama iletişim aracı olarak içerik analizi ile değerlendirilmesi: Yük taşımacılığı yapan firmalar üzerine bir araştırma. *The Turkish Online Journal of Design, Art and Communication – TOJDAC*, 7(3), 409–417. doi:[10.7456/10703100/003](https://doi.org/10.7456/10703100/003)
- Dwivedi, S. K., Amin, R., & Vollala, S. (2020). Blockchain based secured information sharing protocol in supply chain management system with key distribution mechanism. *Journal of Information Security and Applications*, 54, 1–15. doi:[10.1016/j.jisa.2020.102554](https://doi.org/10.1016/j.jisa.2020.102554)
- Dwivedi, Y. K., Hughes, L., Ismagilova, E., Aarts, G., Coombs, C., Crick, T., ... Williams, M. D. (2019). Artificial Intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy. *International Journal of Information Management*, 57, 101994. doi:[10.1016/j.ijinfomgt.2019.08.002](https://doi.org/10.1016/j.ijinfomgt.2019.08.002)
- Eden, S., & Hoyer, L. A. (2020). *E-commerce 2020: Trends and outlooks. E-commerceDB.com trend reports*.
- EIA (Energy Information Administration). (2020). China country analysis. Retrieved from <https://www.eia.gov/international/analysis/country/CHN>
- Elbeltagi, I. (2007). E-commerce and globalization: An exploratory study of Egypt. *Cross Cultural Management: An International Journal*, 14(3), 196–201. doi:[10.1108/13527600710775748](https://doi.org/10.1108/13527600710775748)
- Elden, M., Cakir, S. Y., & Bakir, U. (2018). Website persuasiveness in sports marketing: A content analysis of websites of Turkish sports clubs. *International Conference on Computers in Management and Business*, 92–96. doi:[10.1145/3232174.3232186](https://doi.org/10.1145/3232174.3232186)
- Erdem, T., & Swait, J. (2004). Brand credibility, brand consideration, and choice. *Journal of Consumer Research*, 31(1), 191–198. doi:[10.1086/383434](https://doi.org/10.1086/383434)
- Erdem, T., Swait, J., & Valenzuela, A. (2006). Brands as signals: A cross-country validation study. *Journal of Marketing*, 70(1), 34–49. doi:[10.1509/jmkg.70.1.034.qxd](https://doi.org/10.1509/jmkg.70.1.034.qxd)
- Erevelles, S., Fukawa, N., & Swayne, L. (2016). Big data consumer analytics and the transformation of marketing. *Journal of Business Research*, 69(2), 897–904. doi:[10.1016/j.jbusres.2015.07.001](https://doi.org/10.1016/j.jbusres.2015.07.001)
- Ertek, G., & Aba, B. (2012). Lojistik Bilişim Sistemleri (Logistics information systems). In B. Çatay & G. Öztürk (Eds.), *Uluslararası lojistik*. Eskişehir: Anadolu Üniversitesi Yayınları. Açıköğretim Fakültesi Yayımları No: 1593.
- Eskeland, G. S., & Harrison, A. E. (2003). Moving to greener pastures? Multinationals and the pollution haven hypothesis. *Journal of Development Economics*, 70, 1–23. doi:[10.1016/S0304-3878\(02\)00084-6](https://doi.org/10.1016/S0304-3878(02)00084-6)
- Esmaelian, B., Sarkis, J., Lewis, K., & Behdad, S. (2020). Blockchain for the future of sustainable supply chain management in Industry 4.0 Resources. *Conservation & Recycling*, 163, 1–15. doi:[10.1016/j.resconrec.2020.105064](https://doi.org/10.1016/j.resconrec.2020.105064)
- Etro, F. (2015). The economics of cloud computing. In *Cloud technology: Concepts, methodologies, tools, and Applications* (Vol. 4, pp. 2135–2148). Hershey, PA: IGI Global.

- European Club Association (ECA). (2020). COVID-19 financial impacts on European clubs. Retrieved from [https://www.ecaeurope.com/media/4771/eca\\_COVID-19-financial-impact-on-european-clubs.pdf](https://www.ecaeurope.com/media/4771/eca_COVID-19-financial-impact-on-european-clubs.pdf)
- European Commission. (n.d.). Research & innovation in internet of things. Retrieved from <https://ec.europa.eu/digital-single-market/en/research-innovation-iot>. Accessed on November 10, 2020.
- European Commission, Information Society and Media. (2008). Internet of things in 2020 roadmap for the future. Retrieved from [https://docbox.etsi.org/erm/Open\\_CERP%2020080609-10/Internet-of-Things\\_in\\_2020\\_EC-EPoSS\\_Workshop\\_Report\\_2008\\_v1-1.pdf](https://docbox.etsi.org/erm/Open_CERP%2020080609-10/Internet-of-Things_in_2020_EC-EPoSS_Workshop_Report_2008_v1-1.pdf). Accessed on November 20, 2020.
- Evans, D. (2011). The internet of things: How the next evolution of the internet is changing everything. *CISCO White Paper*, 1(2011), 1–11. Retrieved from [https://www.cisco.com/c/dam/en\\_us/about/ac79/docs/innov/IoT\\_IBSG\\_0411FINAL.pdf](https://www.cisco.com/c/dam/en_us/about/ac79/docs/innov/IoT_IBSG_0411FINAL.pdf)
- Fan, W., & Huai, J. P. (2014). Querying big data: Bridging theory and practice. *Journal of Computer Science and Technology*, 29(5), 849–869. doi:[10.1007/s11390-014-1473-2](https://doi.org/10.1007/s11390-014-1473-2)
- Fantacci, L., & Gobbi, L. (2021). Stablecoins, central bank digital currencies and US dollar hegemony: The geopolitical stake of innovations in money and payments. *Accounting, Economics, and Law: A Convivium*, 1 (ahead-of-print). doi:[10.1515/ael-2020-0053](https://doi.org/10.1515/ael-2020-0053)
- Farahani, B., Firouzi, F., Chang, V., Badaroglu, M., Constant, N., & Mankodiya, K. (2018). Towards fog-driven IoT eHealth: Promises and challenges of IoT in medicine and healthcare. *Future Generation Computer Systems*, 78, 659–676. doi:[10.1016/j.future.2017.04.036](https://doi.org/10.1016/j.future.2017.04.036)
- Faraoni, M., Rialti, R., Zollo, L., & Pellicelli, A. C. (2019). Exploring e-loyalty antecedents in B2C e-commerce: Empirical results from Italian grocery retailers. *British Food Journal*, 121(2), 574–589. doi:[10.1108/BFJ-04-2018-0216](https://doi.org/10.1108/BFJ-04-2018-0216)
- Farzanegan, M., R., Feizi, M., & Gholipour, H. F. (2020). Globalization and outbreak of COVID-19: An empirical analysis. *Joint Discussion Paper Series in Economics*, 18(May), 1–22. doi:[10.3390/jrfm14030105](https://doi.org/10.3390/jrfm14030105)
- Fawcett, S. E., Wallin, C., Allred, C., Fawcett, A. M., & Magnan, G. M. (2011). Information technology as an enabler of supply chain collaboration: A dynamic-capabilities perspective. *Journal of Supply Chain Management*, 47(1), 38–59. doi:[10.1111/j.1745-493X.2010.03213.x](https://doi.org/10.1111/j.1745-493X.2010.03213.x)
- Fernandes, N. (2020). Economic effects of coronavirus outbreak (COVID-19) on the world economy. Retrieved from <https://ssrn.com/abstract=3557504>. SSRN 3557504.
- Finch, G., Goehring, B., & Marshall, A. (2017). The enticing promise of cognitive computing: High-value functional efficiencies and innovative enterprise capabilities. *Strategy & Leadership*, 45(6), 26–33. doi:[10.1108/SL-07-2017-0074](https://doi.org/10.1108/SL-07-2017-0074)
- Finextra. (2017). Mobile technology, its importance, present and future trends. Retrieved from <https://www.finextra.com/blogposting/14000/mobile-technology-its-importance-present-and-future-trends>. Accessed on November 17, 2020.
- Fishbein, M., & Ajzen, I. (1975). *Belief, attitude, intention, and behavior: An introduction to theory and research*. Reading, MA: Addison-Wesley.
- Flood, R. P., & Hodrick, R. J. (1990). On testing for speculative bubbles. *Journal of Economic Perspectives*, 4(2), 85–101. doi:[10.1257/jep.4.2.85](https://doi.org/10.1257/jep.4.2.85)

- Flores, E., Xu, X., & Lu, Y. (2020). Human capital 4.0: A workforce competence typology for industry 4.0. *Journal of Manufacturing Technology Management*, 31(4), 687–703. doi:[10.1108/JMTM-08-2019-0309](https://doi.org/10.1108/JMTM-08-2019-0309)
- Forslid, R., Okubo, T., & Ulltveit-Moe, K. H. (2014). *Why are firms that export cleaner? International trade and CO<sub>2</sub> emissions*. CESifo Working Paper Series, 4817. doi:[10.1016/j.jeem.2018.07.006](https://doi.org/10.1016/j.jeem.2018.07.006)
- Framework, D. N. B. D. I. (2015). *Draft nist big data interoperability framework: Volume 7, standards roadmap*. NIST Special Publication, 1500.
- Franco, C. E., & Regi, S. B. (2016). Advantages and challenges of e-commerce customers and businesses: In Indian perspective. *International Journal of Research-Granthaalayah*, 4(3SE), 7–13. doi:[10.29121/granthaalayah.v4.i3se.2016.2771](https://doi.org/10.29121/granthaalayah.v4.i3se.2016.2771)
- Franco-Bedoya, S., & Frohm, E. (2020). *Global trade in final goods and intermediate inputs: Impact of FTAs and reduced ‘Border Effects’*. ECB Working Paper No. 2020/2410.
- Frase, P. (2016). *Four futures, life after capitalism*. London: Verso.
- Freelancers Union. (2019). Freelancing in America: 2019. In *Freelancers union & upwork*. Retrieved from <https://www.upwork.com/press/releases/freelancing-in-america-2019>
- Friedman, G. (2014). Workers without employers: Shadow corporations and the rise of the gig economy. *Review of Keynesian Economics*, 2, 171–188. doi:[10.4337/roke.2014.02.03](https://doi.org/10.4337/roke.2014.02.03)
- Gabrielsson, M., & Gabrielsson, P. (2011). Internet-based sales channel strategies of born global firms. *International Business Review*, 20(1), 88–99. doi:[10.1016/j.ibusrev.2010.05.001](https://doi.org/10.1016/j.ibusrev.2010.05.001)
- Gabus, A., & Fontela, E. (1972). *World problems, an invitation to further thought within the framework of DEMATEL* (pp. 1–8). Geneva: Battelle Geneva Research Center.
- Galindo, L. D. (2016). *The challenges of logistics 4.0 for the supply chain management and the information technology*. Master's thesis, NTNU, Trondheim, Norway.
- Gandal, N., Hamrick, J., Moore, T., & Oberman, T. (2018). Price manipulation in the Bitcoin ecosystem. *Journal of Monetary Economics*, 95, 86–96. doi:[10.1016/j.jmoneco.2017.12.004](https://doi.org/10.1016/j.jmoneco.2017.12.004)
- Gandomi, A., & Haider, M. (2015). Beyond the hype: Big data concepts, methods, and analytics. *International Journal of Information Management*, 35(2), 137–144. doi:[10.1016/j.ijinfomgt.2014.10.007](https://doi.org/10.1016/j.ijinfomgt.2014.10.007)
- Gargiulo, R. M., & Bouck, E. C. (2015). *Special education in contemporary society: An introduction to exceptionality* (5th ed.). Thousand Oaks, CA: Sage. ISBN:978-1452216775.
- Gartner. (2017, February 7). Gartner Inc. Retrieved from <https://www.gartner.com/en/newsroom/press-releases/2017-02-07-gartner-says-8-billion-connected-things-will-be-in-use-in-2017-up-31-percent-from-2016>. Accessed on November 10, 2020.
- Gerencer, T. (2021). 200+ sales statistic (cold calling, follow-up, closing rates). Retrieved from <https://zety.com/blog/sales-statistics#social-selling>. Accessed on February 5, 2021.
- Ghodeswar, B. M. (2008). Building brand identity in competitive markets: A conceptual model. *Journal of Product & Brand Management*, 17(1), 4–12. doi:[10.1108/10610420810856468](https://doi.org/10.1108/10610420810856468)

- Gilchrist, A. (2016). *Industry 4.0 the industrial internet of things*. New York, NY: Springer.
- Gillpatrick, T., Blunck, E., & Bođa, S. (2019, November). Understanding the role of consumer behavior in forecasting the impact of industry 4.0 and the wave of digital disruption driving innovation in retailing. In *DIEM: Dubrovnik International Economic Meeting*, 4(1), 165–176. Sveučilište u Dubrovniku.
- Giovanni, P. De (2020). Blockchain and smart contracts in supply chain management: A game theoretic model. *International Journal of Production Economics*, 228, 1–18. doi:[10.1016/j.ijpe.2020.107855](https://doi.org/10.1016/j.ijpe.2020.107855)
- Glende, S., Conrad, I., Krezdon, L., Klemcke, S., & Krätzel, C. (2016). Increasing the acceptance of assistive robots for older people through marketing strategies based on stakeholder needs. *International Journal of Social Robotics*, 8(3), 355–369. doi:[10.1007/s12369-015-0328-5](https://doi.org/10.1007/s12369-015-0328-5)
- Gnoni, M. G., Bragatto, P. A., Milazzo, M. F., & Setola, R. (2020). Integrating IoT technologies for an “intelligent” safety management in the process industry. *Procedia Manufacturing*, 42, 511–515. doi:[10.1016/j.promfg.2020.02.040](https://doi.org/10.1016/j.promfg.2020.02.040)
- Goes, P., Tu, Y., & Tung, Y. A. (2013). Seller heterogeneity in electronic marketplaces: A study of new and experienced sellers in eBay. *Decision Support Systems*, 56, 247–258. doi:[10.1016/j.dss.2013.06.007](https://doi.org/10.1016/j.dss.2013.06.007)
- Gökdemir, Ö. (2005). Economic development of the football industry in Europe. *Journal of Economics*, 463–468, 18–24.
- Google News. (2021). Coronavirus (COVID-19). Retrieved from <https://news.google.com/COVID19/map?hl=tr&gl=TR&cid=TR%3Atr>
- Gopal, G., Suter-Crazzolara, C., Toldo, L., & Eberhardt, W. (2019). Digital transformation in healthcare—architectures of present and future information technologies. *Clinical Chemistry and Laboratory Medicine*, 57(3), 328–335. doi:[10.1515/cclm-2018-0658](https://doi.org/10.1515/cclm-2018-0658)
- Görçün, Ö. F. (2018). Lojistikte Teknoloji Kullanımı Ve Robotik Sistemler—technology utilization in Logistics and robotic systems. *Mehmet Akif Ersoy Üniversitesi Sosyal Bilimler Enstitüsü Dergisi*, 10(24), 351–368. doi:[10.20875/makusobed.397373](https://doi.org/10.20875/makusobed.397373)
- Gorelik, A. (2019). *The enterprise big data lake: Delivering the promise of big data and data science*. Sebastopol, CA: O'Reilly Media.
- GORIN, D. (2019). The road to the 2030 manufacturing workplace: What industry 4.0 means for talent strategies. Retrieved from <https://tracsolution.com/blog/manufacturing-talent-strategies/>
- Graham, L. (2016). Citi eyes a trillion-dollar industry in virtual reality technology. Retrieved from <https://www.cnbc.com/2016/10/14/citi-eyes-a-trillion-dollar-industry-in-virtual-reality-technology.html>. Accessed on December 12, 2020.
- Green, M. C., & Keegan, W. J. (2015). *Global marketing* (7th ed.). Upper Saddle River, NJ: Pearson.
- Grieger, M. (2003). Electronic marketplaces: A literature review and a call for supply chain management research. *European Journal of Operational Research*, 144, 280–294. <https://core.ac.uk/download/pdf/208724007.pdf>
- Grossman, G. M., & Krueger, A. B. (1991). *Environmental impacts of a North American free trade agreement*. NBER Working Papers, 3914. doi:[10.3386/w3914](https://doi.org/10.3386/w3914)

- Grover, V. (2019). 4 examples of virtual reality marketing: Lessons for market-ers. Retrieved from <https://www.marTechadvisor.com/articles/interactive-marketing/examples-of-virtual-reality-marketing/>. Accessed on November 15, 2020.
- Gubbi, J., Buyya, R., Marusic, S., & Palaniswami, M. (2013). Internet of Things (IoT): A vision, architectural elements, and future directions. *Future Generation Computer Systems*, 29, 645–660. doi:[10.1016/j.future.2013.01.010](https://doi.org/10.1016/j.future.2013.01.010)
- Güleç, T. C., & Aktaş, H. (2019a). Kriptopara Birimleri Piyasasında Pump&Dump Manipülasyonlarının İki Aşamalı analizi. *Atatürk Üniversitesi İktisadi ve İdari Bilimler Dergisi*, 33(3), 919–932.
- Güleç, T. C., & Aktaş, H. (2019b). Kripto Para Piyasasında Spekulatif Fiyat Balonlarının analizi. *Muhasebe ve Finansman Dergisi*, 84, 149–164. doi:[10.25095/mufad.625790](https://doi.org/10.25095/mufad.625790)
- Gupta, R., Mejia, C., & Kajikawa, Y. (2019). Business, innovation and digital ecosystems landscape survey and knowledge cross sharing. *Technological Forecasting and Social Change*, 147, 100–109. doi:[10.1016/j.techfore.2019.07.004](https://doi.org/10.1016/j.techfore.2019.07.004)
- Güzel, P., Yıldız, K., Esentaş, M., & Zerengök, D. (2020). “Know-How” to Spend time in home isolation during COVID-19; restrictions and recreational activities. *International Journal of Psychology and Educational Studies*, 7(2), 122–131. doi:[10.17220/ijpes.2020.02.011](https://doi.org/10.17220/ijpes.2020.02.011)
- Haghirian, P., Madlberger, M., & Tanuskoval, A. (2005). Increasing advertising value of mobile marketing—an empirical study of antecedents. In Proceedings of the 38th annual Hawaii international conference on system sciences (pp. 1–10). Piscataway, NJ: IEEE.
- Hajli, N. (2015). Social commerce constructs and consumer's intention to buy. *International Journal Information Management*, 35(2), 183–191. doi:[10.1016/j.ijinfomgt.2014.12.005](https://doi.org/10.1016/j.ijinfomgt.2014.12.005)
- Haleem, A., Javaid, M., Vaishya, R., & Vaish, A. (2020). Role of internet of things for health-care monitoring during COVID-19 pandemic. *Apollo Medicine*, 17(5), 55–57. doi:[10.4103/am.am\\_66\\_20](https://doi.org/10.4103/am.am_66_20)
- Hall, A., Towers, N., & Shaw, D. R. (2017). Understanding how millennial shoppers decide what to buy. *International Journal of Retail & Distribution Management*, 45(5), 498–517. doi:[10.1108/IJRD-11-2016-0206](https://doi.org/10.1108/IJRD-11-2016-0206)
- Hall, S. (2020). This is how COVID-19 is affecting the world of sports. Retrieved from <https://www.weforum.org/agenda/2020/04/sports-COVID19-coronavirus-exercise-spectators-media-coverage/>
- Hallikainen, H., Savimäki, E., & Laukkonen, T. (2020). Fostering B2B sales with customer big data analytics. *Industrial Marketing Management*, 86, 90–98. doi:[10.1016/j.indmarman.2019.12.005](https://doi.org/10.1016/j.indmarman.2019.12.005)
- Hammer, M. (2001). The superefficient company. *Harvard Business Review*, 79(9), 82–93.
- Han, S. L., An, M., Han, J. J., & Lee, J. (2020). Telepresence, time distortion, and consumer traits of virtual reality shopping. *Journal of Business Research*, 118, 311–320. doi:[10.1016/j.jbusres.2020.06.056](https://doi.org/10.1016/j.jbusres.2020.06.056)
- Harari, Y. N. (2018). *21 lessons for the 21st century*. London: Jonathan Cape.
- Haren, P., & Simchi-Levi, D. (2020). How coronavirus could impact the global supply chain by mid-march. *Harvard Business Review*, February 28. Retrieved from <https://hbr.org/2020/02/how-coronavirus-could-impact-the-global-supply-chain-by-mid-march>

- Harris, S. D., & Krueger, A. B. (2015). *A proposal for modernizing labor laws for twenty-first-century work: The “independent worker.* The Hamilton Project Discussion Paper. Retrieved from [https://www.hamiltonproject.org/assets/files/modernizing\\_labor\\_laws\\_for\\_twenty\\_first\\_century\\_work\\_krueger\\_harris.pdf](https://www.hamiltonproject.org/assets/files/modernizing_labor_laws_for_twenty_first_century_work_krueger_harris.pdf)
- Harrison, B., Eckman, B., Hamilton, R., Hartwick, P., Kalagnanam, J., Paraszczak, J., & Williams, P. (2010). Foundations for smarter cities. *IBM Journal of Research and Development*, 54(4), 1–16. doi:[10.1147/JRD.2010.2048257](https://doi.org/10.1147/JRD.2010.2048257)
- Hasan, R., Shams, R., & Rahman, M. (2020). Consumer trust and perceived risk for voice-controlled artificial intelligence: The case of Siri. *Journal of Business Research*, 131, 591–597. doi:[10.1016/j.jbusres.2020.12.012](https://doi.org/10.1016/j.jbusres.2020.12.012)
- Hasanat, M. W., Hoque, A., Shikha, F. A., Anwar, M., Hamid, A. B. A., & Tat, H. H. (2020). The impact of coronavirus (COVID-19) on e-business in Malaysia. *Asian Journal of Multidisciplinary Studies*, 3(1), 85–90.
- Hasanov, F. J., Liddle, B., & Mikayilov, J. I. (2018). The impact of international trade on CO<sub>2</sub> emissions in oil exporting countries: Territory vs consumption emissions accounting. *Energy Economics*, 74, 343–350. doi:[10.1016/j.eneco.2018.06.004](https://doi.org/10.1016/j.eneco.2018.06.004)
- Hasim, M. S., Hashim, A. E., Ariff, N. R. M., Sapeciay, Z., & Abdullah, A. S. (2018). Commitment to sustainability: A content analysis of website for university organisations. *IOP Conference Series: Earth and Environmental Science*, 117, 012046. doi:[10.1088/1755-1315/117/1/012046](https://doi.org/10.1088/1755-1315/117/1/012046)
- Hassani, K., & Dost, S. (2020). Impact of COVID 19 on international trade and China’s trade. *Turkish Economic Review*, 7(2), 103–110. doi:[10.1453/ter.v7i2.2079](https://doi.org/10.1453/ter.v7i2.2079)
- Hayakawa, K., & Mukunoki, H. (2020). *Impacts of COVID-19 on international trade: Evidence from the first quarter of 2020.* Institute of Developing Economies Discussion Paper, No. 791, pp. 1–23.
- Heaton, J., Noyes, J., Sloper, P., & Shah, R. (2005). Families’ experiences of caring for technology-dependent children: A temporal perspective. *Health and Social Care in the Community*, 13(5), 441–450. doi:[10.1111/j.1365-2524.2005.00571.x](https://doi.org/10.1111/j.1365-2524.2005.00571.x)
- Hecklau, F., Galeitzke, M., Flachs, S., & Kohl, H. (2016). Holistic approach for human resource management in Industry 4.0. *Procedia CIRP*, 54, 1–6. doi:[10.1016/j.procir.2016.05.102](https://doi.org/10.1016/j.procir.2016.05.102)
- He, M., Ren, C., Wang, Q., Shao, B., & Dong, J. (2010, November). The internet of things as an enabler to supply chain innovation. In *2010 IEEE 7th international conference on E-business engineering* (pp. 326–331). doi:[10.1109/ICEBE.2010.11](https://doi.org/10.1109/ICEBE.2010.11)
- Heilweil, R. (2020). Coronavirus is the first big test for futuristic tech that can prevent pandemics. Retrieved from <https://www.vox.com/recode/2020/2/27/21156358/surveillance-techcoronavirus-china-facial-recognition>. Accessed on February 27, 2021.
- Hermawati, S., & Pieri, K. (2019). Assistive technologies for severe and profound hearing loss: Beyond hearing aids and implants. *Assistive Technology*, 32(4), 1–12. doi:[10.1080/10400435.2018.1522524](https://doi.org/10.1080/10400435.2018.1522524)
- Herway, J., & Hickman, A. (2020). Remote work: Is it a virtual threat to your culture? Retrieved from <https://www.gallup.com/workplace/317753/remote-work-virtual-threat-culture.aspx>. Accessed on August 30, 2020.
- Hjelm, N. M. (2005). Benefits and drawbacks of telemedicine. *Journal of Telemedicine and Telecare*, 11(2), 60–70. doi:[10.1258/1357633053499886](https://doi.org/10.1258/1357633053499886)
- Hoekstra, R., Michel, B., & Suh, S. (2016). The emission cost of international sourcing: Using structural decomposition analysis to calculate the contribution

- of international sourcing to CO<sub>2</sub>-emission growth. *Economic Systems Research*, 28(2), 151–167. doi:[10.1080/09535314.2016.1166099](https://doi.org/10.1080/09535314.2016.1166099)
- Hofacker, C. F., Malthouse, E. C., & Sultan, F. (2016). Big data and consumer behavior: Imminent opportunities. *Journal of Consumer Marketing*, 33(2), 89–97. doi:[10.1108/JCM-04-2015-1399](https://doi.org/10.1108/JCM-04-2015-1399)
- Hofmann, E., & Rüsch, M. (2017). Industry 4.0 and the current status as well as future prospects on logistics. *Computers in Industry*, 89, 23–34. doi:[10.1016/j.compind.2017.04.002](https://doi.org/10.1016/j.compind.2017.04.002)
- Hompel, M., & Schmidt, T. (2006). *Warehouse management: Automation and organisation of warehouse and order picking systems*. Berlin: Springer.
- Hootsuite & We are Social. (2021). *We are social global digital report 2020*. Retrieved from <https://datareportal.com/reports/digital-2021-global-overview-report>. Accessed on January 31, 2021.
- Horenberg, D. (2017). *Applications within logistics 4.0: A research conducted on the visions of 3PL service providers*. Bachelor's thesis, University of Twente, Enschede.
- Horky, T. (2020). No sports, no spectators—No media, no money? The importance of spectators and broadcasting for professional sports during COVID-19. *Soccer and Society*, 22(1–2), 1–7. doi:[10.1080/14660970.2020.1790358](https://doi.org/10.1080/14660970.2020.1790358)
- Horst, D. J., Duvoisin, C. A., & de Almeida Vieira, R. (2018). Additive manufacturing at industry 4.0: A review. *International Journal of Engineering and Technical Research*, 8(8), 3–8.
- Hoskinson, C. (2017). Why we are building Cardano. IOHK. Retrieved from <https://www.cardano.com>. Accessed on December 18, 2017.
- Howcroft, D., & Bergall-Kareborn, B. (2019). A typology of crowdwork platforms. *Work, Employment and Society*, 33, 21–38. doi:[10.1177/0950017018760136](https://doi.org/10.1177/0950017018760136)
- Hoy, M. B. (2018). Alexa, Siri, Cortana, and more: An introduction to voice assistants. *Medical Reference Services Quarterly*, 37(1), 81–88. doi:[10.1080/02763869.2018.1404391](https://doi.org/10.1080/02763869.2018.1404391)
- Huang, W., Le, T., Li, X., & Gandha, S. (2006). Categorizing web features and functions to evaluate commercial web sites: An assessment framework and an empirical investigation of Australian companies. *Industrial Management & Data Systems*, 106(4), 523–539. doi:[10.1108/02635570610661606](https://doi.org/10.1108/02635570610661606)
- Huang, Z., & Benyoucef, M. (2013). From e-commerce to social commerce: A close look at design features. *Electronic Commerce Research and Applications*, 12(4), 246–259. doi:[10.1016/j.elerap.2012.12.003](https://doi.org/10.1016/j.elerap.2012.12.003)
- Hugar, J. G. (2019). Content analysis of engineering college library websites in Goa. *Library Philosophy and Practice*, 2320. doi:[10.2139/ssrn.3620064](https://doi.org/10.2139/ssrn.3620064)
- Hunter, G. (2020). The impact of coronavirus on football might change the game forever. Retrieved from <https://www.espn.com/soccer/spanish-primera-division/story/4077900/the-impact-of-coronavirus-on-football-might-change-the-game-forever>
- Hwang, J., Park, S., & Kim, I. (2020). Understanding motivated consumer innovativeness in the context of a robotic restaurant: The moderating role of product knowledge. *Journal of Hospitality and Tourism Management*, 44, 272–282. doi:[10.1016/j.jhtm.2020.06.003](https://doi.org/10.1016/j.jhtm.2020.06.003)
- IBRD (International Bank for Reconstruction and Development). (1992). *World development report 1992. Development and the environment*. New York, NY: Oxford University Press. doi:[10.1596/0-1952-08-5](https://doi.org/10.1596/0-1952-08-5)

- Iddris, F. (2018). Digital supply chain: Survey of the literature. *International Journal of Business Research and Management*, 9(1), 47–61.
- Ilie-Zudor, E., Kemény, Z., Van Blommestein, F., Monostori, L., & Van Der Meulen, A. (2011). A survey of applications and requirements of unique identification systems and RFID techniques. *Computers in Industry*, 62(3), 227–252. doi: [10.1016/j.compind.2010.10.004](https://doi.org/10.1016/j.compind.2010.10.004)
- Individuals with Disabilities Education Improvement Act, 20 U.S.C. § 305. (2004)
- International Labor Organization. (2020). *International labor organization global employment trends for youth 2020*. Retrieved from [https://www.ilo.org/wcmsp5/groups/public/-dgreports/-dcomm/-publ/documents/publication/wcms\\_737648.pdf](https://www.ilo.org/wcmsp5/groups/public/-dgreports/-dcomm/-publ/documents/publication/wcms_737648.pdf)
- Ismail, K. (2020). Conversational marketing: How to go beyond Chatbots. Retrieved from <https://www.cmswire.com/digital-marketing/conversational-marketing-how-to-go-beyond-chatbots/>. Accessed on November 13, 2020.
- Itre. (2016). *Industry 4.0*. European Parliament's Committee on Industry. Retrieved from [https://www.europarl.europa.eu/RegData/etudes/STUD/2016/570007/IPOL\\_STU\(2016\)570007\\_EN.pdf](https://www.europarl.europa.eu/RegData/etudes/STUD/2016/570007/IPOL_STU(2016)570007_EN.pdf)
- Ivanov, D. (2020). Predicting the impacts of epidemic outbreaks on global supply chains: A simulation-based analysis on the coronavirus outbreak (COVID-19/SARS-CoV-2) case. *Transportation Research Part E: Logistics and Transportation Review*, 136, 1–14. doi: [10.1016/j.tre.2020.101922](https://doi.org/10.1016/j.tre.2020.101922)
- Iwamura, M., Kitamura, Y., Matsumoto, T., & Saito, K. (2019). Can we stabilize the price of a cryptocurrency?: Understanding the design of Bitcoin and its potential to compete with Central Bank money. *Hitotsubashi Journal of Economics*, 60(1), 41–60.
- İyigün, İ. (2019). Lojistik ve Tedarik Zinciri Süreçlerinde Büyük Veri Kullanımı ve Etkilerinin Analizi. *Anemon Muş Alparslan Üniversitesi Sosyal Bilimler Dergisi*, 7, 95–103. doi: [10.18506/anemon.576185](https://doi.org/10.18506/anemon.576185)
- Jamrus, T., Wang, H.-K., & Chien, C.-F. (2020). Dynamic coordinated scheduling for supply chain under uncertain production time to empower smart production for Industry 3.5. *Computers & Industrial Engineering*, 142, 1–9. doi: [10.1016/j.cie.2020.106375](https://doi.org/10.1016/j.cie.2020.106375)
- Jamshidi, M., Lalbakhsh, A., Talla, J., Peroutka, Z., Hadjilooei, F., Lalbakhsh, P., ... Mohyuddin, W. (2020). Artificial intelligence and COVID-19: Deep learning approaches for diagnosis and treatment. *IEEE Access*, 8, 109581–109595. doi: [10.1109/ACCESS.2020.3001973](https://doi.org/10.1109/ACCESS.2020.3001973)
- Jänicke, M., & Jacob, K. (2009). *A third industrial revolution. Solutions to the crisis of resource-intensive growth*. doi: [10.17169/refubium-23438](https://doi.org/10.17169/refubium-23438)
- Javornik, A. (2016). Augmented reality: Research agenda for studying the impact of its media characteristics on consumer behaviour. *Journal of Retailing and Consumer Services*, 30, 252–261. doi: [10.1016/j.jretconser.2016.02.004](https://doi.org/10.1016/j.jretconser.2016.02.004)
- Jhon Hopkins University. (2020). Retrieved from <https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6>. Accessed on February 27, 2021.
- Jiang, X., & Guan, D. (2017). The global CO<sub>2</sub> emissions growth after international crisis and the role of international trade. *Energy Policy*, 109, 734–746. doi: [10.1016/j.enpol.2017.07.058](https://doi.org/10.1016/j.enpol.2017.07.058)

## 204 References

- Jiang, X., Liu, Y., Zhang, J., Zu, L., Wang, S., & Green, C. (2015). Evaluating the role of international trade in the growth of China's CO<sub>2</sub> emissions. *Journal of Systems Science and Complexity*, 28(4), 907–924. doi:[10.1007/s11424-015-2152-2](https://doi.org/10.1007/s11424-015-2152-2)
- Jindal, A. (2019). Globalization 4.0 or fourth industrial revolution. Retrieved from <https://currentaffairs.anujjindal.in/globalization-4-0-or-fourth-industrial-revolution/>. Accessed on January 23, 2021.
- Jing, P., Xu, G., Chen, Y., Shi, Y., & Zhan, F. (2020). The determinants behind the acceptance of autonomous vehicles: A systematic review. *Sustainability*, 12(5), 1–26. doi:[10.3390/su12051719](https://doi.org/10.3390/su12051719)
- Kaczorowska-Spychalska, D. (2018). Digital technologies in the process of virtualization of consumer behaviour—awareness of new technologies. *Management*, 22(2), 187–203. doi:[10.2478/manment-2018-0031](https://doi.org/10.2478/manment-2018-0031)
- Kagermann, H., Lukas, W. D., & Wahlster, W. (2011). Industrie 4.0: Mit dem Internet der Dinge auf dem Weg zur 4. industriellen Revolution. *VDI Nachrichten*, 13(1), 2–3.
- Kaine, S., & Josserand, E. (2019). The organisation and experience of work in the gig economy. *Journal of Industrial Relations*, 61(4), 479–501. doi:[10.1177/0022185619865480](https://doi.org/10.1177/0022185619865480)
- Kalla, A., Hewa, T., Mishra, R. A., Ylianttila, M., & Liyanage, M. (2020). The role of blockchain to fight against COVID-19. *IEEE Engineering Management Review*, 48(3), 85–96. doi:[10.1109/EMR.2020.3014052](https://doi.org/10.1109/EMR.2020.3014052)
- Kaplan, A., & Haenlein, M. (2019). Siri, Siri, in my hand: Who's the fairest in the land? On the interpretations, illustrations, and implications of artificial intelligence. *Business Horizons*, 62(1), 15–25. doi:[10.1016/j.bushor.2018.08.004](https://doi.org/10.1016/j.bushor.2018.08.004)
- Karlı, H., & Tanyaş, M. (2020). Lojistik yönetiminin dijital dönüşümü: Akıllı lojistik üzerine sistematik literatür haritalaması. *Optimum Ekonomi ve Yönetim Bilimleri Dergisi*, 7(2), 613–632. doi:[10.17541/optimum.718622](https://doi.org/10.17541/optimum.718622)
- Katircı, H. (2016). Comparison of the content of web sites of higher education institutions providing for sports management education: The case of Turkish and English universities. *Educational Research and Reviews*, 11(8), 562–572. doi:[10.5897/ERR2016.2698](https://doi.org/10.5897/ERR2016.2698)
- Katsiampa, P., Corbet, S., & Lucey, B. (2019). High frequency volatility co-movements in cryptocurrency markets. *Journal of International Financial Markets, Institutions and Money*, 62, 35–52. doi:[10.1016/j.intfin.2019.05.003](https://doi.org/10.1016/j.intfin.2019.05.003)
- Kaur, K., & Kaur, R. (2016). Internet of things to promote tourism: An insight into smart tourism. *International Journal of Recent Trends in Engineering & Research*, 2(4), 357–361.
- Kaur, M. J., Mishra, V. P., & Maheshwari, P. (2020). The convergence of digital twin, IoT, and machine learning: Transforming data into action. In *Digital twin technologies and smart cities* (pp. 3–17). Cham: Springer.
- Kennedy, P. (2012). William Gibson's future is now. Retrieved from <https://www.nytimes.com/2012/01/15/books/review/distrust-that-particular-flavor-by-william-gibson-book-review.html>
- Kennedy, D., & Kennedy, P. (2020). English premier league football clubs during the COVID-19 pandemic: Business as usual? *Soccer and Society*, 22(1–2), 1–8. doi:[10.1080/14660970.2020.1797498](https://doi.org/10.1080/14660970.2020.1797498)

- Kent, A. M., & Kirby, A. E. (2009). The design of the store environment and its implications for retail image. *International Review of Retail Distribution & Consumer Research*, 19(4), 457–468. doi:[10.1080/09593960903331501](https://doi.org/10.1080/09593960903331501)
- Khan, R., Tausif, S., & Javed Malik, A. (2019). Consumer acceptance of delivery drones in urban areas. *International Journal of Consumer Studies*, 43(1), 87–101. doi:[10.1111/jics.12487](https://doi.org/10.1111/jics.12487)
- Khan, W. Z., Aalsalem, M. Y., & Khan, M. K. (2018). Five acts of consumer behavior: A potential security and privacy threat to internet of things. In *2018 IEEE international conference on consumer electronics (ICCE)* (pp. 1–3). IEEE. doi:[10.1109/ICCE.2018.8326124](https://doi.org/10.1109/ICCE.2018.8326124)
- Khattak, A. H., Tehreem, K., Almogren, A., Ameer, Z., Ud Din, I., & Adnan, M. (2020). Dynamic pricing in industrial internet of things: Blockchain application for energy management in smart cities. *Journal of Information Security and Applications*, 55, 1–8. doi:[10.1016/j.jisa.2020.102615](https://doi.org/10.1016/j.jisa.2020.102615)
- Khurshid, A. (2020). Applying blockchain technology to address the crisis of trust during the COVID-19 pandemic. *JMIR Medical Informatics*, 8(9), e20477. doi:[10.2196/20477](https://doi.org/10.2196/20477)
- Kiel, D., Arnold, C., & Voigt, K. I. (2017). The influence of the Industrial internet of things on business models of established manufacturing companies – A business level perspective. *Technovation*, 68, 4–19. doi:[10.1016/j.technovation.2017.09.003](https://doi.org/10.1016/j.technovation.2017.09.003)
- Kilpatrick, J., & Barter, L. (2020). COVID-19 managing supply chain risk and disruption. Retrieved from Deloitte <https://www2.deloitte.com/global/en/pages/risk/articles/covid-19-managing-supply-chain-risk-and-disruption.html>
- Kim, I., & Pant, G. (2019). Predicting web site audience demographics using content and design cues. *Information & Management*, 56(5), 718–730. doi:[10.1016/j.im.2018.11.005](https://doi.org/10.1016/j.im.2018.11.005)
- Kim, J. J., Choe, J. Y. J., & Hwang, J. (2021). Application of consumer innovativeness to the context of robotic restaurants. *International Journal of Contemporary Hospitality Management*, 33(1), 224–242. doi:[10.1108/IJCHM-06-2020-0602](https://doi.org/10.1108/IJCHM-06-2020-0602)
- Kimura, F., Thangavelu, S., M., Narjoko, D., & Findlay, C. (2020). Pandemic (COVID-19) policy, regional cooperation and the emerging global production network. *Asian Economic Journal*, 34(1), 3–27. doi:[10.1111/asej.12198](https://doi.org/10.1111/asej.12198)
- Kiryakova, G., Yordanova, L., & Angelova, N. (2017). Can we make schools and universities smarter with the internet of things? *TEM Journal*, 6(1), 80–84.
- Klaus, P., & Zaichkowsky, J. (2020). AI voice bots: A services marketing research agenda. *Journal of Services Marketing*, 34(3), 389–398. doi:[10.1108/JSM-01-2019-0043](https://doi.org/10.1108/JSM-01-2019-0043)
- Koch, G., Füller, J., & Brunswicker, S. (2011). Online crowdsourcing in the public sector: How to design open government platforms. In *Online communities and social computing, lecture notes in computer science* (Vol. 6778, pp. 203–212). Newyork, NY: Springer.
- Koren, I., & Klamma, R. (2018). Enabling visual community learning analytics with internet of things devices. *Computers in Human Behavior*, 89, 385–394. doi:[10.1016/j.chb.2018.07.036](https://doi.org/10.1016/j.chb.2018.07.036)
- Korn, F., Saha, B., Srivastava, D., & Ying, S. (2013). On repairing structural problems in semi-structured data. *Proceedings of the VLDB Endowment*, 6(9), 601–612. doi:[10.14778/2536360.2536361](https://doi.org/10.14778/2536360.2536361)

- Kostrzewski, M., Kosacka-Olejnik, M., & Werner-Lewandowska, K. (2019). Assessment of innovativeness level for chosen solutions related to Logistics 4.0. 29th international conference on flexible automation and intelligent manufacturing (FAIM2019), June 24–28, 2019, Limerick, Ireland. *Procedia Manufacturing*, 38, 621–628. doi:[10.1016/j.promfg.2020.01.080](https://doi.org/10.1016/j.promfg.2020.01.080)
- Kostrzewski, M., Varjan, P., & Gnap, J. (2020). Solutions dedicated to internal logistics 4.0. In *Sustainable logistics and production in industry 4.0* (pp. 243–262). Cham: Springer. doi:[10.1007/978-3-030-33369-0\\_14](https://doi.org/10.1007/978-3-030-33369-0_14)
- Kotler, P. (2020). Retrieved from [https://www.linkedin.com/posts/philipkotler\\_i-just-gave-a-short-zoom-lecture-to-kellogg-activity-6720780158086766592-eMoO](https://www.linkedin.com/posts/philipkotler_i-just-gave-a-short-zoom-lecture-to-kellogg-activity-6720780158086766592-eMoO). Accessed on November 5, 2020.
- Kotler, P., Kartajaya, H., & Setiawan, I. (2011). *Marketing 3.0: From products to customers to the human spirit*. Hoboken, NJ: John Wiley & Sons.
- Kotler, P., Kartajaya, H., & Setiawan, I. (2017). *Marketing 4.0: Moving from traditional to digital*. New Jersey: John Wiley & Sons.
- Kozanoglu, D. C., & Abedin, B. (2020). Understanding the role of employees in digital transformation: Conceptualization of digital literacy of employees as a multi-dimensional organizational affordance. *Journal of Enterprise Information Management*. doi:[10.1108/JEIM-01-2020-0010](https://doi.org/10.1108/JEIM-01-2020-0010)
- KPMG. (2015). Sanayi 4.0 dördüncü sanayi devrimi. Yarının Fabrikaları Neye Benziyor. Retrieved from <https://home.kpmg/content/dam/kpmg/tr/pdf/2016/08/tr-sanayi-4.PDF>
- KPMG. (2020a). *Player value not immune to pandemic-An analysis of the impact of the COVID-19 crisis on football players' market values*. Retrieved from <https://assets.kpmg/content/dam/kpmg/nl/pdf/2020/persberichten/kpmg-fbm-report-COVID-impact-on-players-values.pdf>
- KPMG. (2020b). The European Elite 2020-football clubs' valuation. Retrieved from [https://footballbenchmark.com/documents/files/KPMG%20The%20European%20Elite%202020\\_Online%20version\\_.pdf](https://footballbenchmark.com/documents/files/KPMG%20The%20European%20Elite%202020_Online%20version_.pdf)
- Kruger, D. J., Moffet, I. M., Seluk, L. C., & Zammit, L. A. (2020). A content analysis of internet information sources on medical cannabis. *Journal of Cannabis*, 2(29), 2–6. doi:[10.1186/s42238-020-00041-1](https://doi.org/10.1186/s42238-020-00041-1)
- Kumar, A. (2018). Methods and materials for smart manufacturing: Additive manufacturing, internet of things, flexible sensors and soft robotics. *Manufacturing Letters*, 15, 122–125. doi:[10.1016/j.mfglet.2017.12.014](https://doi.org/10.1016/j.mfglet.2017.12.014)
- Kumar, A. (2020). Improvement of public distribution system efficiency applying blockchain technology during pandemic outbreak (COVID-19). *Journal of Humanitarian Logistics and Supply Chain Management*, 11(1), 1–28. doi:[10.1108/JHLSCM-06-2020-0050](https://doi.org/10.1108/JHLSCM-06-2020-0050)
- Kumar, A., Luthra, S., Mangla, S. K., & Kazançoglu, Y. (2020). COVID-19 impact on sustainable production and operations management. *Sustainable Operations and Computers*, 1, 1–7. doi:[10.1016/j.susoc.2020.06.001](https://doi.org/10.1016/j.susoc.2020.06.001)
- Kurtts, S., Dobbins, N., & Takemae, N. (2020). Using assistive technology to meet diverse learner needs. In M. Dawkins (Ed.), *Intellectual freedom issues in school libraries*. Santa Barbara, CA: Libraries Unlimited Inc. ISBN:978-1-4408-7237-2.
- Kuznets, S. (1955). Economic growth and income inequality. *American Economic Review*, 45(1), 1–28.

- Lai, P. C. (2017). The literature review of technology adoption models and theories for the novelty technology. *JISTEM-Journal of Information Systems and Technology Management*, 14(1), 21–38. doi:[10.4301/s1807-17752017000100002](https://doi.org/10.4301/s1807-17752017000100002)
- Lambourne, A. D., & Ranson, P. F. (2019). U.S. Patent Application No. 15/787,175.
- Lambrinos, L., & Dosis, A. (2013). DisAssist: An internet of things and mobile communications platform for disabled parking space management. In *2013 IEEE global communications conference* (pp. 2810–2815). doi:[10.1109/GLOCOM.2013.6831500](https://doi.org/10.1109/GLOCOM.2013.6831500)
- Lee, J., Bagheri, B., & Kao, H.-A. (2015). A cyber-physical systems architecture for industry 4.0-based manufacturing systems. *Manufacturing Letters*, 3, 18–23. doi:[10.1016/j.mfglet.2014.12.001](https://doi.org/10.1016/j.mfglet.2014.12.001)
- Lee, C. K. M., Lv, Y., Ng, K. K. H., Ho, W., & Choy, K. L. (2018). Design and application of Internet of things-based warehouse management system for smart logistics. *International Journal of Production Research*, 56(8), 2753–2768. doi:[10.1080/00207543.2017.1394592](https://doi.org/10.1080/00207543.2017.1394592)
- Leech, N. L., & Onwuegbuzie, A. J. (2007). An array of qualitative data analysis tools: A call for data analysis triangulation. *School Psychology Quarterly*, 22(4), 557–584. doi:[10.1037/1045-3830.22.4.557](https://doi.org/10.1037/1045-3830.22.4.557)
- Leontief, W. (1983). Technological advance, economic growth, and the distribution of income. *Population and Development Review*, 9(3), 403–410. doi:[10.2307/1973315](https://doi.org/10.2307/1973315)
- Lestari, D., Darma, D. C., Amalia, S., & Setini, M. (2020). International trade in the Covid-19 outbreak: Is the digital economy working? *International Journal of Business and Management*, 8(2), 86–92. doi:[10.20472/BM.2020.8.2.005](https://doi.org/10.20472/BM.2020.8.2.005)
- Lewandowski, P. (2007). PESCADF: Stata module to perform pesaran's cadf panel unit root test in presence of cross section dependence. Warsaw School of Economics, Institute for Structural Research. Retrieved from [http://fmwww.bc.edu/repec/bocode/p/pescadf.ado/](http://fmwww.bc.edu/repec/bocode/p/pescadf.ado)
- Li, T. (2020). A SWOT analysis of China's air cargo sector in the context of COVID-19 pandemic. *Journal of Air Transport Management*, 88, 101875. doi:[10.1016/j.jairtraman.2020.101875](https://doi.org/10.1016/j.jairtraman.2020.101875)
- Liakopoulos, A., Barry, L., & Schwartz, J. (2013). The open talent economy: People and work in a borderless workplace. Deloitte development LLC, 1–12. Retrieved from <https://www2.deloitte.com/content/dam/Deloitte/global/Documents/HumanCapital/dttl-hc-english-opentalenteconomy.pdf>
- Liang, T. P., Ho, Y. T., Li, Y. W., & Turban, E. (2011). What drives social commerce: The role of social support and relationship quality. *International Journal of Electronic Commerce*, 16(2), 69–90. doi:[10.2753/JEC1086-4415160204](https://doi.org/10.2753/JEC1086-4415160204)
- Liang, T. P., & Turban, E. (2011). Introduction to the special issue social commerce: A research framework for social commerce. *International Journal of Electronic Commerce*, 16(2), 5–13. doi:[10.2753/JEC1086-4415160201](https://doi.org/10.2753/JEC1086-4415160201)
- Liang, Y., Lee, S. H., & Workman, J. E. (2020). Implementation of artificial intelligence in fashion: Are consumers ready? *Clothing and Textiles Research Journal*, 38(1), 3–18. doi:[10.1177/0887302X19873437](https://doi.org/10.1177/0887302X19873437)
- Liljander, V., Gillberg, F., Gummerus, J., & Van Riel, A. (2006). Technology readiness and the evaluation and adoption of self-service technologies. *Journal of Retailing and Consumer Services*, 13(3), 177–191. doi:[10.1016/j.jretconser.2005.08.004](https://doi.org/10.1016/j.jretconser.2005.08.004)

- Lin, C. L., & Tzeng, G. H. (2009). A value-created system of science park by using DEMETEL. *Expert Systems with Applications*, 36, 9683–9697. doi:[10.1016/j.eswa.2008.11.040](https://doi.org/10.1016/j.eswa.2008.11.040)
- Liou, J. J., Tzeng, G. H., & Chang, H. C. (2007). Airline safety measurement using a hybrid model. *Journal of Air Transport Management*, 13(4), 243–249.
- Liu, J., & Yang, L. (2011). Application of internet of things in the community security management. In *2011 third international conference on computational intelligence, communication systems and networks* (pp. 314–318). Piscataway, NJ: IEEE.
- Liu, Y., Chen, D. Q., & Gao, W. (2020). How does customer orientation (in) congruence affect B2B electronic commerce platform firms' performance. *Industrial Marketing Management*, 87, 18–30. doi:[10.1016/j.indmarman.2020.02.027](https://doi.org/10.1016/j.indmarman.2020.02.027)
- Llewellyn, G. (2019). Social commerce trends for 2020 you need to look out for. Retrieved from <https://www.smartinsights.com/ecommerce/social-commerce/social-commerce-trends-for-2020-you-need-to-look-out-for/>. Accessed on February 5, 2021.
- Lo, F. Y., & Campos, N. (2018). Blending Internet-of-Things (IoT) solutions into relationship marketing strategies. *Technological Forecasting and Social Change*, 137, 10–18. doi:[10.1016/j.techfore.2018.09.029](https://doi.org/10.1016/j.techfore.2018.09.029)
- Löffler, M., & Tschiesner, A. (2013). *The internet of things and the future of manufacturing*. McKinsey & Company. Retrieved from <https://www.mckinsey.com/business-functions/mckinsey-digital/our-insights/the-internet-of-things-and-the-future-of-manufacturing>
- Lohachab, A., & Jangra, A. (2019). Opportunistic Internet of Things (IoT): Demystifying the effective possibilities of opportunistic networks towards IoT. In *2019 6th international conference on signal processing and integrated networks (SPIN)* (pp. 1100–1105).
- Longoni, C., Bonezzi, A., & Morewedge, C. K. (2019). Resistance to medical artificial intelligence. *Journal of Consumer Research*, 46(4), 629–650. doi:[10.1093/jcr/ucz013](https://doi.org/10.1093/jcr/ucz013)
- Lopes, N. V. (2020). Internet of things feasibility for disabled people. *Transactions on Emerging Telecommunications Technologies*, 31(12), 1–22. doi:[10.1002/ett.3906](https://doi.org/10.1002/ett.3906)
- Loske, D. (2020). The impact of COVID-19 on transport volume and freight capacity dynamics: An empirical analysis in German food retail logistics. *Transportation Research Interdisciplinary Perspectives*, 6, 100165. doi:[10.1016/j.trip.2020.100165](https://doi.org/10.1016/j.trip.2020.100165)
- Loureiro, S. M. C., Guerreiro, J., Eloy, S., Langaro, D., & Panchapakesan, P. (2019). Understanding the use of virtual reality in marketing: A text mining-based review. *Journal of Business Research*, 100, 514–530. doi:[10.1016/j.jbusres.2018.10.055](https://doi.org/10.1016/j.jbusres.2018.10.055)
- Lu, J., Yu, C. S., Liu, C., & Yao, J. E. (2003). Technology acceptance model for wireless Internet. *Internet Research*, 13(3), 206–222. doi:[10.1108/10662240310478222](https://doi.org/10.1108/10662240310478222)
- Lu, Y. (2017). Industry 4.0: A survey on technologies, applications and open research issues. *Journal of Industrial Information Integration*, 6, 1–10. doi:[10.1016/j.jiii.2017.04.005](https://doi.org/10.1016/j.jiii.2017.04.005)
- Lueth, K. L. (2020). State of the IoT 2020: 12 billion IoT connections, surpassing non-IoT for the first time. Retrieved from <https://iot-analytics.com/state-of-the-iot-2020-12-billion-iot-connections-surpassing-non-iot-for-the-first-time/>. Accessed on February 27, 2021.
- Luo, X., Yin, L., Li, C., Wang, C., Fang, F., Zhu, C., & Tian, Z. (2020). A light-weight privacy-preserving communication protocol for heterogeneous IoT environment. *IEEE Access*, 8, 67192–67204. doi:[10.1109/ACCESS.2020.2978525](https://doi.org/10.1109/ACCESS.2020.2978525)

- Lycett, M. (2013). 'Datafication': Making sense of (big) data in a complex world. *European Journal of Information Systems*, 22(4), 381–386. doi:[10.1057/ejis.2013.10](https://doi.org/10.1057/ejis.2013.10)
- Machado, C. G., Winroth, M., Carlsson, D., Almström, P., Centerholt, V., & Hallin, M. (2019). Industry 4.0 readiness in manufacturing companies: Challenges and enablers towards increased digitalization. *Procedia CIRP*, 81, 1113–1118. doi:[10.1016/j.procir.2019.03.262](https://doi.org/10.1016/j.procir.2019.03.262)
- Madakam, S., Lake, V., Lake, V., & Lake, V. (2015). Internet of Things (IoT): A literature review. *Journal of Computer and Communications*, 3(05), 164–173. doi:[10.4236/jcc.2015.35021](https://doi.org/10.4236/jcc.2015.35021)
- Madhavaram, S., Badrinarayanan, V., & McDonald, R. E. (2005). Integrated marketing communication (IMC) and brand identity as critical components of brand equity strategy: A conceptual framework and research propositions. *Journal of Advertising*, 34(4), 69–80. doi:[10.1080/00913367.2005.10639213](https://doi.org/10.1080/00913367.2005.10639213)
- Mai, R., Hoffmann, S., Schwarz, U., Niemand, T., & Seidel, J. (2014). The shifting range of optimal web site complexity. *Journal of Interactive Marketing*, 28, 101–116. doi:[10.1016/j.intmar.2013.10.001](https://doi.org/10.1016/j.intmar.2013.10.001)
- Mainardes, E. W., Souza, I. M. De, & Correia, D. (2020). Antecedents and consequents of consumers not adopting e-commerce. *Journal of Retailing and Consumer Services*, 55(March), 102138. doi:[10.1016/j.jretconser.2020.102138](https://doi.org/10.1016/j.jretconser.2020.102138)
- Malavasi, M., & Gabriele, S. (2017). *Lean manufacturing and industry 4.0: An empirical analysis between sustaining and disruptive change*. Milano: Politecnico.
- Mann, S., Potdar, V., Gajavilli, R. S., & Chandan, A. (2018). Blockchain technology for supply chain traceability, transparency and data provenance. In ICBTA 2018: Proceedings of the 2018 international conference on blockchain technology and application, Xi'an (pp. 22–26). doi:[10.1145/3301403.3301408](https://doi.org/10.1145/3301403.3301408)
- Manyika, J., Chui, M., Bisson, P., Woetzel, J., Dobbs, R., Bughin, J., & Aharon, D. (2015). *Unlocking the potential of the internet of things*. San Francisco, CA: McKinsey Global Institute.
- Maple, C. (2017). Security and privacy in the internet of things. *Journal of Cyber Policy*, 2(2), 155–184. doi:[10.1080/23738871.2017.1366536](https://doi.org/10.1080/23738871.2017.1366536)
- Marangoz, M., Yeşildağ, B., & Saltık-Arikan, I. (2012). E-ticaret işletmeleri sayfalarının içerik analizi. *IUYD*, 3(2), 53–78. Retrieved from [http://www.journalagent.com/fuyd/pdfs/fuyd\\_3\\_2\\_53\\_78.pdf](http://www.journalagent.com/fuyd/pdfs/fuyd_3_2_53_78.pdf)
- Margulies, J. C. (2015). *Data as competitive advantage*. New York, NY: Winterberry Group.
- Mariani, M. M., & Wamba, S. F. (2020). Exploring how consumer goods companies innovate in the digital age: The role of big data analytics companies. *Journal of Business Research*, 121, 338–352. doi:[10.1016/j.jbusres.2020.09.012](https://doi.org/10.1016/j.jbusres.2020.09.012)
- Marjani, M., Nasaruddin, F., Gani, A., Karim, A., Hashem, I. A. T., Siddiq, A., & Yaqoob, I. (2017). Big IoT data analytics: Architecture, opportunities, and open research challenges. *IEEE Access*, 5, 5247–5261. doi:[10.1109/ACCESS.2017.2689040](https://doi.org/10.1109/ACCESS.2017.2689040)
- Martín-Gómez, A., Aguayo-González, F., & Luque, A. (2019). A holonic framework for managing the sustainable supply chain in emerging economies with smart connected metabolism. *Resources, Conservation and Recycling*, 141, 219–232. doi:[10.1016/j.resconrec.2018.10.035](https://doi.org/10.1016/j.resconrec.2018.10.035)
- Mas-Coma, S., Jones, M. K., & Marty, A. M. (2020). COVID-19 and globalization. *One health*, 9, 100132. doi:[10.1016/j.onehlt.2020.100132](https://doi.org/10.1016/j.onehlt.2020.100132)

## 210 References

- Mastos, T. D., Nizamis, A., Vafeiadis, T., Alexopoulos, N., Ntinias, C., Gkortzis, D., ... Tzovaras, D. (2020). Industry 4.0 sustainable supply chains: An application of an IoT enabled scrap metal management solution. *Journal of Cleaner Production*, 269, 1–13. doi:[10.1016/j.jclepro.2020.122377](https://doi.org/10.1016/j.jclepro.2020.122377)
- Mastromartino, B., Ross, W. J., Wear, H., & Naraine, M. L. (2020). Thinking outside the ‘box’: A discussion of sports fans, teams, and the environment in the context of COVID-19. *Sport in Society*, 23(11), 1707–1723. doi:[10.1080/17430437.2020.1804108](https://doi.org/10.1080/17430437.2020.1804108)
- Matook, S. (2013). Measuring the performance of electronic marketplaces: An external goal approach study. *Decision Support Systems*, 54, 1065–1075. doi:[10.1016/j.dss.2012.10.032](https://doi.org/10.1016/j.dss.2012.10.032)
- Matt, D. T., & Rauch, E. (2020). SME 4.0: The role of small-and medium-sized enterprises in the digital transformation. In D. T. Matt, V. Modrák, & H. Zsifkovits (Eds.), *Industry 4.0 for SMEs* (pp. 3–36). Cham: Palgrave Macmillan.
- Maxwell, J. A. (2012). *Qualitative research design: An interactive approach* (Vol. 41). Thousand Oaks, CA: Sage Publications.
- McAfee, A., Brynjolfsson, E., Davenport, T. H., Patil, D. J., & Barton, D. (2012). Big data: The management revolution. *Harvard Business Review*, 90(10), 60–68.
- McCall, B. (2020). COVID-19 and artificial intelligence: Protecting health-care workers and curbing the spread. *The Lancet Digital Health*, 2(4), e166–e167. doi:[10.1016/S2589-7500\(20\)30054-6](https://doi.org/10.1016/S2589-7500(20)30054-6)
- Mclachlan, S. (2020). What is social commerce and why should your brand care? Retrieved from <https://blog.hootsuite.com/social-commerce/>. Accessed on February 4, 2021.
- McLean, G., & Wilson, A. (2019). Shopping in the digital world: Examining customer engagement through augmented reality mobile applications. *Computers in Human Behavior*, 101, 210–224. doi:[10.1016/j.chb.2019.07.002](https://doi.org/10.1016/j.chb.2019.07.002)
- Meadows, D., Meadows, D., Randers, J., & Behrens, W. W., III (1972). *The limit to growth. A report for the club of Rome's project on the predicament of Mankind*. New York: A Potomac Associates Book.
- Medaglia, C. M., & Serbanati, A. (2010). An overview of privacy and security issues in the internet of things. In D. Giusto, A. Iera, G. Morabito, & L. Atzori (Eds.), *The internet of things* (pp. 389–395). New York, NY: Springer.
- Meißner, M., Pfeiffer, J., Peukert, C., Dietrich, H., & Pfeiffer, T. (2020). How virtual reality affects consumer choice. *Journal of Business Research*, 117, 219–231. doi:[10.1016/j.jbusres.2020.06.004](https://doi.org/10.1016/j.jbusres.2020.06.004)
- Mell, P., & Grance, T. (2011). *The NIST definition of cloud computing* (pp. 1–3). Gaithersburg, MA: National Institute of Standards and Technology (NIST). Special Publication 800-145.
- Mende, M., Scott, M. L., van Doorn, J., Grewal, D., & Shanks, I. (2019). Service robots rising: How humanoid robots influence service experiences and elicit compensatory consumer responses. *Journal of Marketing Research*, 56(4), 535–556. doi:[10.1177%2F0022243718822827](https://doi.org/10.1177%2F0022243718822827)
- Metin, İ. (2020). An innovative alternative of industry 4.0 for the Turkish customs operations: Customs 4.0 and single window system. In İ. Metin & T. Danacı Ünal, (Eds.), *Managing global trade In industry 4.0: New issues and trends*. Ankara: Gazi Kitabevi.

- Meyer, S., Ruppen, A., & Magerkurth, C. (2013, June). Internet of things-aware process modeling: Integrating IoT devices as business process resources. In *International conference on advanced information systems engineering* (pp. 84–98). Berlin: Springer.
- Min, H., & Zhou, G. (2002). Supply chain modeling: Past, present and future. *Computers & Industrial Engineering*, 43(1–2), 231–249. doi:[10.1016/S0360-8352\(02\)00066-9](https://doi.org/10.1016/S0360-8352(02)00066-9)
- Miorandi, D., Sicari, S., De Pellegrini, F., & Chlamtac, I. (2012). Internet of things: Vision, applications and research challenges. *Ad Hoc Networks*, 10(7), 1497–1516. doi:[10.1016/j.adhoc.2012.02.016](https://doi.org/10.1016/j.adhoc.2012.02.016)
- Montes, J. O. (2016). Impacts of 3D printing on the development of new business models. In 2016 IEEE european technology and engineering management summit (E-TEMS). doi:[10.1109/E-TEMS.2016.7912605](https://doi.org/10.1109/E-TEMS.2016.7912605)
- Morel, M., Balm, S., Berden, M., & van Amstel, W. P. (2020). Governance models for sustainable urban construction logistics: Barriers for collaboration. *City Logistics 2019. Transportation Procedia*, 46, 173–180. doi:[10.1016/j.trpro.2020.03.178](https://doi.org/10.1016/j.trpro.2020.03.178)
- Moreno, L. (2019). 10 impressive examples of IA in marketing. Retrieved from <https://blog.socialmediastrategiessummit.com/10-examples-of-ai-in-marketing/>. Accessed on November 16, 2020.
- Morewedge, C. K., Monga, A., Palmatier, R. W., Shu, S. B., & Small, D. A. (2021). Evolution of consumption: A psychological ownership framework. *Journal of Marketing*, 85(1), 196–218. doi:[10.1177%2F0022242920957007](https://doi.org/10.1177%2F0022242920957007)
- Nadkarni, S., Kriechbaumer, F., Rothenberger, M., & Christodoulidou, N. (2019). The path to the hotel of things: Internet of things and big data converging in hospitality. *Journal of Hospitality and Tourism Technology*, 11(1), 93–107. doi:[10.1108/JHTT-12-2018-0120](https://doi.org/10.1108/JHTT-12-2018-0120)
- Nair, K. S. (2017). Impact of e-commerce on global business and opportunities – A conceptual study. *International Journal of Advanced Engineering and Management Research*, 2(2), 324–336.
- Najjar, L. J. (2011). Advances in e-commerce user interface design. In Proceedings of the first international conference on human interface and the management of information: Interacting with information, Part II, Orlando, FL, USA, July 9–14. *Lecture notes in computer science* (Vol. 6772, pp. 292–300). Berlin: Springer.
- Nakamoto, S. (2008). A peer-to-peer electronic cash system. Bitcoin. Retrieved from <https://Bitcoin.Org/Bitcoin.Pdf>.
- Nakhate, S. B., & Jain, N. (2020). The effect of coronavirus on E commerce. *Studies in Indian Place Names*, 40(68), 516–518.
- Nandi, S., Sarkis, J., Hervani, A. A., & Helms, M. M. (2021). Redesigning supply chains using blockchain-enabled circular economy and COVID-19 experiences. *Sustainable Production and Consumption*, 27, 10–22. doi:[10.1016/j.spc.2020.10.019](https://doi.org/10.1016/j.spc.2020.10.019)
- Nanehkaran, A. Y. (2013). Introduction to electronic commerce. *International Journal of Scientific & Technology Research*, 2(4), 190–193. Retrieved from <http://www.ijstr.org/final-print/apr2013/An-Introduction-To-Electronic-Commerce.pdf>
- Nang, R. N., Monahan, F., Diehl, G. B., & French, D. (2015). A qualitative content analysis of global health engagements in peacekeeping and Stability operations institute's Stability operations Lessons Learned and information management system. *Military Medicine*, 180(4), 409–418. doi:[10.7205/MILMED-D-14-00387](https://doi.org/10.7205/MILMED-D-14-00387)

## 212 References

- Nasajpour, M., Pouriyeh, S., Parizi, R. M., Dorodchi, M., Valero, M., & Arabnia, H. R. (2020). Internet of things for current COVID-19 and future pandemics: An exploratory study. *Journal of Healthcare Informatics Research*, 4, 325–364. doi: [10.1007/s41666-020-00080-6](https://doi.org/10.1007/s41666-020-00080-6)
- National Theatre. (n.d.). Smart caption glasses. Retrieved from <https://www.nationaltheatre.org.uk/your-visit/access/caption-glasses>. Accessed on November 12, 2020.
- Nemati, M., Hu, W., & Reed, M. (2019). Are free trade agreements good for the environment? A panel data analysis. *Review of Development Economics*, 23(1), 435–453. doi: [10.1111/rode.12554](https://doi.org/10.1111/rode.12554)
- Neves, J., Vicente, H., Esteves, M., Ferraz, F., Abelha, A., Machado, J., ... Sampaio, L. (2018). A deep-big data approach to health care in the AI age. *Mobile Networks and Applications*, 23(4), 1123–1128. doi: [10.1007/s11036-018-1071-6](https://doi.org/10.1007/s11036-018-1071-6)
- Newton, E. (2019). Marketing 5.0: A view to marketing in the 2020s and beyond. Retrieved from <https://www.linkedin.com/pulse/marketing-50-view-2020s-beyond-erik-newton/>. Accessed on November 8, 2020.
- Niranjanamurthy, M., Kavyashree, N., & Chahar, S. J. D. (2013). Analysis of e-commerce and m-Commerce: Advantages, limitations and security issues. *International Journal of Advanced Research in Computer and Communication Engineering*, 2(6), 2360–2370.
- Nizzoli, L., Tardelli, S., Avvenuti, M., Cresci, S., Tesconi, M., & Ferrara, E. (2020). Charting the landscape of online cryptocurrency manipulation. *IEEE Access*, 8, 113230–113245. doi: [10.1109/ACCESS.2020.3003370](https://doi.org/10.1109/ACCESS.2020.3003370)
- Nosalska, K., & Mazurek, G. (2019). Marketing principles for Industry 4.0—A conceptual framework. *Engineering Management in Production and Services*, 11(3), 9–20. doi: [10.2478/emj-2019-0016](https://doi.org/10.2478/emj-2019-0016)
- O'Donovan, P., Leahy, K., Bruton, K., & O'Sullivan, D. T. (2015). An industrial big data pipeline for data-driven analytics maintenance applications in large-scale smart manufacturing facilities. *Journal of Big Data*, 2(1), 1–26. doi: [10.1186/s40537-015-0034-z](https://doi.org/10.1186/s40537-015-0034-z)
- Oleśków-Szlapka, J., Wojciechowski, H., Domański, R., & Pawłowski, G. (2019). Logistics 4.0 maturity levels assessed based on GDM (grey decision model) and artificial intelligence in logistics 4.0 – Trends and future perspective. 25th international conference on production research manufacturing innovation: Cyber physical manufacturing, August 9–14, 2019. Chicago, IL. *Procedia Manufacturing*, 39, 1734–1742. doi: [10.1016/j.promfg.2020.01.266](https://doi.org/10.1016/j.promfg.2020.01.266)
- Olszak, C. M. (2016). Toward better understanding and use of Business Intelligence in organizations. *Information Systems Management*, 33(2), 105–123. doi: [10.1080/10580530.2016.1155946](https://doi.org/10.1080/10580530.2016.1155946)
- Oprićović, S., & Tzeng, G. H. (2004). Compromise solution by MCDM methods: A comparative analysis of VIKOR and TOPSIS. *European Journal of Operational Research*, 156(2), 445–455. doi: [10.1016/S0377-2217\(03\)00020-1](https://doi.org/10.1016/S0377-2217(03)00020-1)
- OrCam. (n.d.). About OrCam. Retrieved from <https://www.orcam.com/en/myeye2/>
- Our World in Data. (2020). CO<sub>2</sub> emissions. Retrieved from <https://ourworldindata.org/co2-emissions>
- Oz, C., & Leu, M. C. (2011). American sign language word recognition with a sensory glove using artificial neural networks. *Engineering Applications of Artificial Intelligence*, 24(7), 1204–1213. doi: [10.1016/j.engappai.2011.06.015](https://doi.org/10.1016/j.engappai.2011.06.015)

- Özdemir, M. (2010). Nitel veri analizi: Sosyal bilimlerde yöntembilim sorunsal üzerine bir çalışma. *Eskişehir Osmangazi Üniversitesi Sosyal Bilimler Dergisi*, 11(1), 323–343. Retrieved from <https://dergipark.org.tr/tr/pub/ogusbd/issue/10997/131612>
- Özdipçiner, N. S., & Ceylan, S. (2017). Restoran İşletmeleri İnternet Siteleri İçerik Analizi: Denizli İli Araştırması. *Yalova Sosyal Bilimler Dergisi*, 7(14), 51–61. doi: [10.17828/yalovasosbil.359808](https://doi.org/10.17828/yalovasosbil.359808)
- Ozili, P., & Arun, T. (2020). *Spillover of COVID-19: Impact on the global economy*. MPRA Paper No. 99850. Retrieved from <https://mpra.ub.uni-muenchen.de/99850/>
- Ozturk, A. B., Nusair, K., Okumus, F., & Singh, D. (2017). Understanding mobile hotel booking loyalty: An integration of privacy calculus theory and trust-risk framework. *Information Systems Frontiers*, 19(4), 753–767. doi: [10.1007/s10796-017-9736-4](https://doi.org/10.1007/s10796-017-9736-4)
- Pal, P. (2020). The coronavirus crisis and international trade. In P. De & S. Gupta (Eds.), *COVID-19 challenges for the Indian economy: Trade and foreign policy effects* (pp. 83–88). Kolkata: EEP CINDIA.
- Pantano, E., & Priporas, C. V. (2016). The effect of mobile retailing on consumers' purchasing experiences: A dynamic perspective. *Computers in Human Behavior*, 61, 548–555. doi: [10.1016/j.chb.2016.03.071](https://doi.org/10.1016/j.chb.2016.03.071)
- Pantelimon, F., Georgescu, T., & Posedaru, B.-Ş. (2020). The impact of mobile e-commerce on GDP: A comparative analysis between Romania and Germany and how Covid-19 influences the e-commerce activity worldwide. *Informatica Economica*, 24(2), 27–41. doi: [10.2481/issn14531305/24.2.2020.03](https://doi.org/10.2481/issn14531305/24.2.2020.03)
- Pappas, I. O., Mikalef, P., Giannakos, M. N., Krogstie, J., & Lekakos, G. (2018). Big data and business analytics ecosystems: Paving the way towards digital transformation and sustainable societies. *Information Systems and E-Business Management*, 16, 479–491. doi: [10.1007/s10257-018-0377-z](https://doi.org/10.1007/s10257-018-0377-z)
- Parasuraman, A. (2000). Technology Readiness Index (TRI) a multiple-item scale to measure readiness to embrace new technologies. *Journal of Service Research*, 2(4), 307–320. doi: [10.1177/109467050024001](https://doi.org/10.1177/109467050024001)
- Parasuraman, A., & Colby, C. L. (2015). An updated and streamlined technology readiness index: TRI 2.0. *Journal of Service Research*, 18(1), 59–74. doi: [10.1177/1094670514539730](https://doi.org/10.1177/1094670514539730)
- Parikh, T. (2018). The ERP of the future: Blockchain of things. *International Journal of Scientific Research in Science, Engineering and Technology IJSRSET*, 4(1), 1341–1348.
- Parnell, D., Bond, A. J., Widdop, P., & Cockayne, D. (2021). Football Worlds: Business and networks during COVID-19. *Soccer and Society*, 22(1–2), 19–26. doi: [10.1080/14660970.2020.1782719](https://doi.org/10.1080/14660970.2020.1782719)
- Patra, P. (2018). Distribution of profit in a smart phone supply chain under Green sensitive consumer demand. *Journal of Cleaner Production*, 192, 608–620. doi: [10.1016/j.jclepro.2018.04.144](https://doi.org/10.1016/j.jclepro.2018.04.144)
- Patrucco, A., Ciccullo, F., & Pero, M. (2020). Industry 4.0 and supply chain process re-engineering. *Business Process Management Journal*, 25(5), 1093–1119. doi: [10.1108/BPMJ-04-2019-0147](https://doi.org/10.1108/BPMJ-04-2019-0147)
- Paulo, M. M., Rita, P., Oliveira, T., & Moro, S. (2018). Understanding mobile augmented reality adoption in a consumer context. *Journal of Hospitality and Tourism Technology*, 9(2), 142–157. doi: [10.1108/JHTT-01-2017-0006](https://doi.org/10.1108/JHTT-01-2017-0006)

## 214 References

- Peña, N., & de Arroyabe, J. C. F. (2002). *Business cooperation: From theory to practice*. New York, NY: Springer.
- Peng, Z., Sun, Y., & Guo, X. (2018). Antecedents of employees' extended use of enterprise systems: An integrative view of person, environment, and technology. *International Journal of Information Management*, 39, 104–120. doi:[10.1016/j.ijinfomgt.2017.11.007](https://doi.org/10.1016/j.ijinfomgt.2017.11.007)
- Pereira, A. G., Lima, T. M., & Charrua-Santos, F. (2020). Industry 4.0 and Society 5.0: Opportunities and threats. *International Journal of Recent Technology and Engineering*, 8(5), 3305–3308. doi:[10.35940/ijrte.D8764.018520](https://doi.org/10.35940/ijrte.D8764.018520)
- Perera, C., Liu, C. H., & Jayawardena, S. (2015). The emerging internet of things marketplace from an industrial perspective: A survey. *IEEE Transactions on Emerging Topics in Computing*, 3(4), 585–598. doi:[10.1109/TETC.2015.2390034](https://doi.org/10.1109/TETC.2015.2390034)
- Perry, M., & Bodkin, C. D. (2002). Fortune 500 manufacturer web sites: Innovative marketing strategies or cyberbrochures? *Industrial Marketing Management*, 31(2), 133–144. doi:[10.1016/S0019-8501\(01\)00187-0](https://doi.org/10.1016/S0019-8501(01)00187-0)
- Pesaran, M. H. (2004). General diagnostic tests for cross section dependence in panels. Cambridge Working Papers in Economics No. 0435. Faculty of Economics, University of Cambridge. Retrieved from <http://www.econ.cam.ac.uk/research-files/repec/cam/pdf/cwpe0435.pdf>
- Pesaran, M. H. (2007). A simple panel unit root test in the presence of cross-section dependence. *Journal of Applied Econometrics*, 22(2), 265–312. doi:[10.1002/jae.951](https://doi.org/10.1002/jae.951)
- Pesaran, M. H., Ullah, A., & Yamagata, T. (2008). A bias-adjusted LM test of error cross-section independence. *Econometrics Journal*, 11(1), 105–127. doi:[10.1111/j.1368-423X.2007.00227.x](https://doi.org/10.1111/j.1368-423X.2007.00227.x)
- Petropoulos, F., & Makridakis, S. (2020). Forecasting the novel coronavirus COVID-19. *PloS One*, 15(3), 1–8. doi:[10.1371/journal.pone.0231236](https://doi.org/10.1371/journal.pone.0231236)
- Pezzuto, I. (2019). Turning globalization 4.0 into a real and sustainable success for all stakeholders. *Journal of Governance and Regulation*, 8(1), 8–18. doi:[10.22495/jgr\\_v8\\_i1\\_p1](https://doi.org/10.22495/jgr_v8_i1_p1)
- Phillips, P. C., & Sul, D. (2007). Transition modeling and econometric convergence tests. *Econometrica*, 75(6), 1771–1855. doi:[10.1111/j.1468-0262.2007.00811.x](https://doi.org/10.1111/j.1468-0262.2007.00811.x)
- Phillips, P. C., & Sul, D. (2009). Economic transition and growth. *Journal of Applied Econometrics*, 24(7), 1153–1185. doi:[10.1002/jae.1080](https://doi.org/10.1002/jae.1080)
- Piccoli, G., & Pigni, F. (2013). Harvesting external data: The potential of digital data streams. *MIS Quarterly Executive*, 12(1), 53–64.
- Pîrvu, B. C., & Zamfirescu, C. B. (2017, August). Smart factory in the context of 4th industrial revolution: Challenges and opportunities for Romania. In *IOP conference series: Materials science and engineering* (Vol. 227(1), pp. 012094). Bristol: IOP Publishing.
- Plos, O., Buisine, S., Auoussat, A., Mantelet, F., & Dumas, C. (2012). A universalist strategy for the design of assistive technology. *International Journal of Industrial Ergonomics*, 42(6), 533–541. doi:[10.1016/j.ergon.2012.09.003](https://doi.org/10.1016/j.ergon.2012.09.003)
- Poon, T. S. C. (2019). Independent workers: Growth trends, categories, and employee relations implications in the emerging gig economy. *Employee Responsibilities and Rights Journal*, 31, 63–69. doi:[10.1007/s10672-018-9318-8](https://doi.org/10.1007/s10672-018-9318-8)

- Porter, M. E., & Heppelmann, J. E. (2017). Why every organization needs an augmented reality strategy. *HBR'S 10 MUST*, 85. Retrieved from <https://hbr.org/2017/11/why-every-organization-needs-an-augmented-reality-strategy>. Accessed on November 19, 2020.
- Prause, G. (2015). Sustainable business models and structures for industry 4.0. *Journal of Security and Sustainability Issues*, 2(5), 1–11. doi:[10.9770/jssi.2015.5.2\(3\)](https://doi.org/10.9770/jssi.2015.5.2(3))
- Protopsaltis, A., Sarigiannidis, P., Margounakis, D., & Lytos, A. (2020, August). Data visualization in internet of things: Tools, methodologies, and challenges. In *Proceedings of the 15th international conference on availability* (pp. 1–11). Reliability and Security. Ireland: Virtual Event.
- Puntoni, S., Reczek, R. W., Giesler, M., & Botti, S. (2021). Consumers and artificial intelligence: An experiential perspective. *Journal of Marketing*, 85(1), 131–151. doi: [10.1177/0022242920953847](https://doi.org/10.1177/0022242920953847)
- PwC, (2016), Industry 4.0: How digitization makes the supply chain more efficient, Agile, and customer-focused.
- PwC. (2020). *Sports industry: System rebooting*. Retrieved from <https://www.insidethegames.biz/media/file/186775/PwCs-Sports-Survey-2020.pdf>
- Qina, J., Liua, Y., & Grosvenora, R. (2016). A categorical framework of manufacturing for industry 4.0 and beyond. *Changeable, Agile, Reconfigurable & Virtual Production – Procedia CIRP*, 52, 173–178. doi:[10.1016/j.procir.2016.08.005](https://doi.org/10.1016/j.procir.2016.08.005)
- Qutab, S., & Mahmood, K. (2009). Library web sites in Pakistan: An analysis of content. *Program: Electronic Library and Information Systems*, 43(4), 430–445. doi: [10.1108/00330330910998075](https://doi.org/10.1108/00330330910998075)
- Radenković, M., Bogdanović, Z., Despotović-Zrakić, M., Labus, A., & Lazarević, S. (2020). Assessing consumer readiness for participation in IoT-based demand response business models. *Technological Forecasting and Social Change*, 150, 119715. doi:[10.1016/j.techfore.2019.119715](https://doi.org/10.1016/j.techfore.2019.119715)
- Radivojević, G., & Milosavljević, L. (2017). The concept of logistics 4.0 in. Proceedings of the 4th Logistics International Conference–LOGIC (pp. 283–292).
- Rajeswari, S., Suthendran, K., & Rajakumar, K. (2017. June). A smart agricultural model by integrating IoT, mobile and cloud-based big data analytics. In *2017 international conference on intelligent computing and control (I2C2)* (pp. 1–5). IEEE. doi:[10.1109/I2C2.2017.8321902](https://doi.org/10.1109/I2C2.2017.8321902)
- Ramadan, Z. B., Farah, M. F., & Mrad, M. (2017). An adapted TPB approach to consumers' acceptance of service-delivery drones. *Technology Analysis & Strategic Management*, 29(7), 817–828. doi:[10.1080/09537325.2016.1242720](https://doi.org/10.1080/09537325.2016.1242720)
- Ranjan, R., Rana, O., Nepal, S., Yousif, M., James, P., Wen, Z., ... Dustdar, S. (2018). The next grand challenges: Integrating the internet of things and data science. *IEEE Cloud Computing*, 5(3), 12–26. doi:[10.1109/MCC.2018.032591612](https://doi.org/10.1109/MCC.2018.032591612)
- Raposo, D., Rodrigues, A., Sinche, S., Sá Silva, J., & Boavida, F. (2018). Industrial IoT monitoring: Technologies and architecture proposal. *Sensors*, 18(10), 3568. doi:[10.3390/s18103568](https://doi.org/10.3390/s18103568)
- Rashid, Z., Melià-Seguí, J., Pous, R., & Peig, E. (2017). Using augmented reality and internet of things to improve accessibility of people with motor disabilities in the context of smart cities. *Future Generation Computer Systems*, 76, 248–261. doi: [10.1016/j.future.2016.11.030](https://doi.org/10.1016/j.future.2016.11.030)

## 216 References

- Ratten, V. (2013). Cloud computing: A social cognitive perspective of ethics, entrepreneurship, technology marketing, computer self-efficacy and outcome expectancy on behavioural intentions. *Australasian Marketing Journal*, 21(3), 137–146. doi:[10.1016/j.ausmj.2013.02.008](https://doi.org/10.1016/j.ausmj.2013.02.008)
- Ratten, V. (2015a). A cross-cultural comparison of online behavioural advertising knowledge, online privacy concerns and social networking using the technology acceptance model and social cognitive theory. *Journal of Science & Technology Policy Management*, 6(1), 25–36. doi:[10.1108/JSTPM-06-2014-0029](https://doi.org/10.1108/JSTPM-06-2014-0029)
- Ratten, V. (2015b). Factors influencing consumer purchase intention of cloud computing in the United States and Turkey. *EuroMed Journal of Business*, 10(1), 80–97. doi:[10.1108/EMJB-02-2014-0007](https://doi.org/10.1108/EMJB-02-2014-0007)
- Rauschnabel, P. A. (2018). Virtually enhancing the real world with holograms: An exploration of expected gratifications of using augmented reality smart glasses. *Psychology and Marketing*, 35(8), 557–572. doi:[10.1002/mar.21106](https://doi.org/10.1002/mar.21106)
- Rauschnabel, P. A., Felix, R., & Hinsch, C. (2019). Augmented reality marketing: How mobile AR-apps can improve brands through inspiration. *Journal of Retailing and Consumer Services*, 49, 43–53. doi:[10.1016/j.jretconser.2019.03.004](https://doi.org/10.1016/j.jretconser.2019.03.004)
- ur Rehman, M. H., Yaqoob, I., Salah, K., Imran, M., Jayaraman, P. P., & Perera, C. (2019). The role of big data analytics in industrial internet of things. *Future Generation Computer Systems*, 99, 247–259. doi:[10.1016/j.future.2019.04.020](https://doi.org/10.1016/j.future.2019.04.020)
- Rekik, R., Kallel, I., Casillas, J., & Alimi, A. M. (2018). Assessing web site quality: A systematic literature review by text and association rules mining. *International Journal of Information Management*, 38, 201–216. doi:[10.1016/j.ijinfomgt.2017.06.007](https://doi.org/10.1016/j.ijinfomgt.2017.06.007)
- Ren, S., Yuan, B., Ma, X., & Chen, X. (2014). International trade, FDI (foreign direct investment) and embodied CO<sub>2</sub> emissions: A case study of Chinas industrial sectors. *China Economic Review*, 28, 123–134. doi:[10.1016/j.chieco.2014.01.003](https://doi.org/10.1016/j.chieco.2014.01.003)
- Requejo, P. S., Furumasu, J., & Mulroy, S. J. (2015). Evidence-based strategies for preserving mobility for elderly and aging manual wheelchair users. *Topics in Geriatric Rehabilitation*, 31(1), 26–41. doi:[10.1097/TGR.0000000000000042](https://doi.org/10.1097/TGR.0000000000000042)
- Research and Markets. (2020). *Social commerce-global market trajectory and analysis*. Retrieved from [https://www.researchandmarkets.com/reports/5140143/social-commerce-global-market-trajectory-and?utm\\_source](https://www.researchandmarkets.com/reports/5140143/social-commerce-global-market-trajectory-and?utm_source). Accessed on February 4, 2021.
- Rifkin, J. (1995). *The end of work*. Putnam Publishing Group.
- Riggins, F. J., & Wamba, S. F. (2015, January). Research directions on the adoption, usage, and impact of the internet of things through the use of big data analytics. In *2015 48th Hawaii international conference on system sciences* (pp. 1531–1540). IEEE. doi:[10.1109/HICSS.2015.186](https://doi.org/10.1109/HICSS.2015.186)
- Rogers, E. M. (1995). *Diffusion of innovations* (4th ed.). New York, NY: The Free Press.
- Rogers, E. M., & Shoemaker, F. F. (1971). *Communication of innovations*. New York, NY: The Free Press.
- Rojko, A. (2017). Industry 4.0 concept: Background and overview. *International Journal of Interactive Mobile Technologies*, 5(11), 77–90. doi:[10.3991/ijim.v11i5.7072](https://doi.org/10.3991/ijim.v11i5.7072)
- Romero, D., & Molina, A. (2011). Collaborative networked organisations and customer communities: Value co-creation and co-innovation in the networking

- era. *Production Planning & Control*, 22(5–6), 447–472. doi:[10.1080/09537287.2010.536619](https://doi.org/10.1080/09537287.2010.536619)
- Ross, D. F. (1997). *Competing through supply chain management: Creating market-winning strategies through supply chain partnerships*. Norwell, MA: Kluwer Academic Publishers.
- Rosso, A. L., Taylor, J. A., Tabb, L. P., & Michael, Y. L. (2013). Mobility, disability, and social engagement in older adults. *Journal of Aging and Health*, 25(4), 617–637. doi:[10.1177/0898264313482489](https://doi.org/10.1177/0898264313482489)
- Rubin, V., & Lukoianova, T. (2013). Veracity roadmap: Is big data objective, truthful and credible? *Advances in Classification Research Online*, 24(1), 4–15. doi:[10.7152/acrov24i1.14671](https://doi.org/10.7152/acrov24i1.14671)
- Ruesch, M., Todesco, P., & Hegi, P. (2020). A positive planning approach to secure logistics facilities in urban areas. *Transportation Research Procedia*, 46, 69–76. doi:[10.1016/j.trpro.2020.03.165](https://doi.org/10.1016/j.trpro.2020.03.165)
- Russom, P. (2011). Big data analytics. *TDWI Best Practices Report, Fourth Quarter*, 19(4), 1–34.
- Saaty, T. L. (1980). The analytic hierarchy process (AHP). *The Journal of the Operational Research Society*, 41(11), 1073–1076.
- Saeed, K. (2008). Limits to growth concepts in classical economics. Retrieved from <https://ssrn.com/abstract=806227>
- Safko, L., & Brake, D. (2012). *The Social media bible: Tactics, tools, and strategies for business success*. Hoboken, NJ: John Wiley & Sons Inc.
- Salehan, M., & Kim, D. J. (2016). Predicting the performance of online consumer reviews: A sentiment mining approach to big data analytics. *Decision Support Systems*, 81, 30–40. doi:[10.1016/j.dss.2015.10.006](https://doi.org/10.1016/j.dss.2015.10.006)
- Salisu, A. A., Akanni, L., & Raheem, I. (2020). The COVID-19 global fear index and the predictability of commodity price returns. *Journal of Behavioral and Experimental Finance*, 27, 100383. doi:[10.1016/j.jbef.2020.100383](https://doi.org/10.1016/j.jbef.2020.100383)
- Santos, V. F. dos, Sabino, L. R., Morais, G. M., & Goncalves, C. A. (2017). E-Commerce: A short history follow-up on possible trends. *International Journal of Business Administration*, 8(7), 130–138. doi:[10.5430/ijba.v8n7p130](https://doi.org/10.5430/ijba.v8n7p130)
- SAS. (2012, June). *White paper, “big data meets big data analytics”, by SAS*.
- Sağlık Bakanlığı, T. C. (2020). Hayat Eve Siğar. <https://hayatevesigar.saglik.gov.tr/>. Accessed on February 02, 2021.
- Scanmarker. (n.d.). Scanmarker, easy, fast, precise. Retrieved from [https://scanmarker.com/?gclid=CjwKCAiAzNj9BRBDEiwAPsL0d\\_J65Ni\\_2hE5odaG7C\\_B7UVrKJd9s1rBeEcQxa6LQOCVVE\\_Rj0-xEABoCRRoQAvD\\_BwE](https://scanmarker.com/?gclid=CjwKCAiAzNj9BRBDEiwAPsL0d_J65Ni_2hE5odaG7C_B7UVrKJd9s1rBeEcQxa6LQOCVVE_Rj0-xEABoCRRoQAvD_BwE). Accessed on November 10, 2020.
- Scholz, J., & Duffy, K. (2018). We are at home: How augmented reality reshapes mobile marketing and consumer-brand relationships. *Journal of Retailing and Consumer Services*, 44, 11–23. doi:[10.1016/j.jretconser.2018.05.004](https://doi.org/10.1016/j.jretconser.2018.05.004)
- Schulz, T., Fuglerud, K. S., Arfwedson, H., & Busch, M. (2014). A case study for universal design in the internet of things. In *Universal design 2014: Three days of creativity and diversity*. doi:[10.3233/978-1-61499-403-9-45](https://doi.org/10.3233/978-1-61499-403-9-45)
- Schwab, K. (2016). *Dördüncü sanayi devrimi*. İstanbul: Optimist Yayınevi Grubu.
- Seabrook, J. (2010). Plastics. Retrieved from <https://www.newyorker.com/news/newsdesk/plastics>

## 218 References

- Secundo, G., Shams, S. R., & Nucci, F. (2021). Digital technologies and collective intelligence for healthcare ecosystem: Optimizing internet of things adoption for pandemic management. *Journal of Business Research*, 131, 563–572. doi:[10.1016/j.jbusres.2021.01.034](https://doi.org/10.1016/j.jbusres.2021.01.034)
- Şeker, A. (2020). International trade and digitalization, managing global trade. In İ. Metin & T. Danacı Ünal (Eds.), *Industry 4.0: New issues and trends*. Ankara: Gazi Kitabevi.
- Şekkeli, Z. H., & Bakan, İ. (2018). Endüstri 4.0’ın Etkisiyle Lojistik 4.0. *Journal of Life Economics*, 5(2), 17–36. doi:[10.15637/jlecon.247](https://doi.org/10.15637/jlecon.247)
- Sforza, A., & Steininger, M. (2020). *Globalization in the time of COVID-19*. CESifo Working Paper, No. 8184, Center for Economic Studies and ifo Institute (CESifo), Munich.
- Sgarbossa, F., Grossé, E. H., Neumann, W. P., Battini, D., & Glock, C. H. (2020). Human factors in production and logistics systems of the future. *Annual Reviews in Control*, 49, 295–305. doi:[10.1016/j.arcontrol.2020.04.007](https://doi.org/10.1016/j.arcontrol.2020.04.007)
- Shakespeare, W., & Kaplan, M. L. (2002). The merchant of Venice. In *The merchant of Venice* (pp. 25–120). Springer.
- Shanaev, S., Sharma, S., Ghimire, B., & Shuraeva, A. (2020). Taming the blockchain beast? Regulatory implications for the cryptocurrency market. *Research in International Business and Finance*, 51, 101080. doi:[10.1016/j.ribaf.2019.101080](https://doi.org/10.1016/j.ribaf.2019.101080)
- Shankar, V., & Balasubramanian, S. (2009). Mobile marketing: A synthesis and prognosis. *Journal of Interactive Marketing*, 23(2), 118–129. doi:[10.1016/j.intmar.2009.02.002](https://doi.org/10.1016/j.intmar.2009.02.002)
- Sharif, A., Aloui, C., & Yarovaya, L. (2020). COVID-19 pandemic, oil prices, stock market, geopolitical risk and policy uncertainty nexus in the US economy: Fresh evidence from the wavelet-based approach. *International Review of Financial Analysis*, 70, 101496. doi:[10.1016/j.irfa.2020.101496](https://doi.org/10.1016/j.irfa.2020.101496)
- Sharma, A., Bahl, S., Bagha, A. K., Javaid, M., Shukla, D. K., & Haleem, A. (2020). Blockchain technology and its applications to combat COVID-19 pandemic. *Research on Biomedical Engineering*, 1–8. doi:[10.1007/s42600-020-00106-3](https://doi.org/10.1007/s42600-020-00106-3)
- Sharma, M., Singh, G., & Singh, R. (2019). An advanced conceptual diagnostic healthcare framework for diabetes and cardiovascular disorders. *EAI Endorsed Transactions on Scalable Information Systems*, 5(18), 1–11. doi:[10.4108/eai.19-6-2018.154828](https://doi.org/10.4108/eai.19-6-2018.154828)
- Shiau, W.-L., & Luo, M. M. (2012). Factors affecting online group buying intention and satisfaction: A social exchange theory perspective. *Computers in Human Behavior*, 28(6), 2431–2444. doi:[10.1016/j.chb.2012.07.030](https://doi.org/10.1016/j.chb.2012.07.030)
- Shieh, J. I., Wu, H. H., & Huang, K. K. (2010). A DEMATEL method in Identifying key access factors of hospital service quality. *Knowledge-Based Systems*, 23(1), 277–282. doi:[10.1016/j.knosys.2010.01.013](https://doi.org/10.1016/j.knosys.2010.01.013)
- Shui, B., Harriss, R. C. (2006). The role of CO<sub>2</sub> embodiment in US-China trade. *Energy Policy*, 34, 4063–4068. doi:[10.1016/j.enpol.2005.09.010](https://doi.org/10.1016/j.enpol.2005.09.010)
- Siemens. (2017). Endüstri 4.0 yolunda el kitapçığı. Retrieved from <https://siemens.edergi.com/pubs/Endustri40/Endustri40/Default.html#p=2>
- Sife, A. S., & Tandika, Z. (2014). Analysis of contents of Tanzanian university library websites, Huria. *Journal of the Open University of Tanzania*, 17, 42–49. Retrieved from <https://www.ajol.info/index.php/huria/article/view/109475>

- Sila, G. (2018). Sanayi 4.0 Yolunda Türkiye. *Sosyoekonomi*, 26(36), 235–243. doi: [10.17233/sosyoekonomi.2018.02.14](https://doi.org/10.17233/sosyoekonomi.2018.02.14)
- da Silva, F. S. T., da Costa, C. A., Crovato, C. D. P., & da Rosa Righi, R. (2020). Looking at energy through the lens of industry 4.0: A systematic literature review of concerns and challenges. *Computers & Industrial Engineering*, 143, 106426. doi: [10.1016/j.cie.2020.106426](https://doi.org/10.1016/j.cie.2020.106426)
- Sima, V., Gheorghe, I. G., Subić, J., & Nancu, D. (2020). Influences of the industry 4.0 revolution on the human capital development and consumer behavior: A systematic review. *Sustainability*, 12(10), 4035. doi: [10.3390/su12104035](https://doi.org/10.3390/su12104035)
- Simões, D., Filipe, S., & Barbosa, B. (2019). An overview on IoT and its impact on marketing. In D. Simões, S. Filipe, & B. Barbosa (Eds.), *Smart marketing with the internet of things* (pp. 1–20). Hershey, PA: IGI Global.
- Singh, S., Kumar, R., Panchal, R., & Tiwari, M. K. (2020). Impact of COVID-19 on logistics systems and disruptions in food supply chain. *International Journal of Production Research*, 1–16. doi: [10.1080/00207543.2020.1792000](https://doi.org/10.1080/00207543.2020.1792000)
- Sisinni, E., Saifullah, A., Han, S., Jennehag, U., & Gidlund, M. (2018). Industrial internet of things: Challenges, opportunities, and directions. *IEEE Transactions on Industrial Informatics*, 14(11), 4724–4734. doi: [10.1109/TII.2018.2852491](https://doi.org/10.1109/TII.2018.2852491)
- Son, J.-Y., Tu, L., & Benbasat, I. (2006). A descriptive content analysis of trust-building measures in B2B electronic marketplaces. *Communications of the Association for Information Systems*, 18(1), 99–128. doi: [10.17705/1cais.01806](https://doi.org/10.17705/1cais.01806)
- Song, L., & Zhou, Y. (2020). The COVID-19 pandemic and its impact on the global economy: What does it take to turn crisis into opportunity? *China and World Economy*, 28(4), 1–25. doi: [10.1111/cwe.12349](https://doi.org/10.1111/cwe.12349)
- Sowe, S. K., Kimata, T., Dong, M., & Zettsu, K. (2014, July). Managing heterogeneous sensor data on a big data platform: IoT services for data-intensive science. In *2014 IEEE 38th international computer software and applications conference workshops* (pp. 295–300). IEEE. doi: [10.1109/COMPSACW.2014.52](https://doi.org/10.1109/COMPSACW.2014.52)
- Soyaslan, M., Közkurt, C., & Fenercioğlu, A. (2015). Otomatik Depolama ve Boşaltma Sistemleri (ODBS): Depo Kurulumu ve Performans Çalışmaları Üzerine Araştırma. *Akademik Platform Mühendislik ve Fen Bilimleri Dergisi*, 3(3), 8–26. doi: [10.5505/apjes.2015.07379](https://doi.org/10.5505/apjes.2015.07379)
- Spann, M., & Tellis, G. J. (2006). Does the internet promote better consumer decisions? The case of name-your-own-price auctions. *Journal of Marketing*, 70(1), 65–78. doi: [10.1509/jmkg.70.1.065.qxd](https://doi.org/10.1509/jmkg.70.1.065.qxd)
- Spekman, R. E., Kamauff, J. W., & Myhr, N. (1998). An empirical investigation into supply chain management: A perspective on partnerships. *Supply Chain Management: An International Journal*, 3(2), 53–67. doi: [10.1108/13598549810215379](https://doi.org/10.1108/13598549810215379)
- Sports Law and Policy Centre (SLPC). (2020). Coronavirus and its impact on football. Retrieved from <https://www.sportslawandpolicycentre.com/SLPC%20LIS%20Survey%20-%20Final%20-%205%20May%202020.pdf>
- Standing, G. (2011). *The precariat: The new dangerous class*. London: Bloomsbury Academic.
- Standing, G. (2015a). Taskers: The precariat in the on-demand economy: Part 1. Retrieved from <https://workingclassstudies.wordpress.com/2015/02/16/taskers-the-precariat-in-the-on-demand-economy-part-one/>

## 220 References

- Standing, G. (2015b). Taskers in the precariat: Part 2 – Essential reforms. Retrieved from <https://workingclassstudies.wordpress.com/2015/04/20/taskers-in-the-precariat-part-2-essential-reforms/>
- Statista. (2020a). Leading countries in the globalization index field of economic globalization in 2020. Retrieved from <https://www.statista.com/statistics/268171/index-of-economic-globalization/>. Accessed on July 02, 2021.
- Statista. (2020b). Coronavirus: Impact on the sports industry worldwide. Retrieved from <https://www.statista.com/study/71572/the-sports-industry-impact-of-the-COVID-19-pandemic-2020/>
- Statista. (2021a). Market size of the European professional football market from 2006/07 to 2018/19. Retrieved from <https://www.statista.com/statistics/261223/european-soccer-market-total-revenue/#:~:text=In%20the%202018%2F19%20season,estimated%20at%2028.9%20billion%20euros>
- Statista. (2021b). Retail e-commerce sales worldwide from 2014 to 2023. Retrieved from <https://www.statista.com/statistics/379046/worldwide-retail-e-commerce-sales/>. Accessed on January 30, 2021.
- Statista. (2021c). Number of social network users worldwide from 2017 to 2025. Retrieved from <https://www.statista.com/statistics/278414/number-of-worldwide-social-network-users/>. Accessed on February 04, 2021.
- Steenkamp, J. B. E., Ter Hofstede, F., & Wedel, M. (1999). A cross-national investigation into the individual and national cultural antecedents of consumer innovativeness. *Journal of Marketing*, 63(2), 55–69. doi:[10.1177/00222429906300204](https://doi.org/10.1177/00222429906300204)
- Stern, D. I. (2004). The rise and fall of the environmental Kuznets curve. *World Development*, 32(8), 1419–1439. doi:[10.1016/j.worlddev.2004.03.004](https://doi.org/10.1016/j.worlddev.2004.03.004)
- Stiglitz, J. E. (2004). Globalization and growth in emerging markets. *Journal of Policy Modeling*, 26(4), 465–484. doi:[10.1016/j.jpolmod.2004.04.010](https://doi.org/10.1016/j.jpolmod.2004.04.010)
- Still, J.,M. (2001). A content analysis of university library Web sites in English speaking countries. *Online Information Review*, 25(3), 160–165. doi:[10.1108/14684520110395281](https://doi.org/10.1108/14684520110395281)
- Story, M. F. (1998). Maximizing usability: The principles of universal design. *Assistive Technology*, 10(1), 4–12. doi:[10.1080/10400435.1998.10131955](https://doi.org/10.1080/10400435.1998.10131955)
- Strangleman, T. (2015). The fissured (working-class) workplace. Retrieved from <https://workingclassstudies.wordpress.com/2015/03/30/the-fissured-working-class-workplace/>
- Stretesky, P. B., & Lynch, M. J. (2009). A cross-national study of the association between per capita carbon dioxide emissions and exports to the United States. *Social Science Research*, 38(1), 239–250. doi:[10.1016/j.ssresearch.2008.08.004](https://doi.org/10.1016/j.ssresearch.2008.08.004)
- Strohmeier, S. (2020). Smart HRM – A Delphi study on the application and consequences of the internet of things in human resource management. *The International Journal of Human Resource Management*, 31(18), 2289–2318. doi:[10.1080/09585192.2018.1443963](https://doi.org/10.1080/09585192.2018.1443963)
- Strong, C. (2015). *Humanizing big data: Marketing at the meeting of data, social science and consumer insight*. London: Kogan Page.
- Suau-Sánchez, P., Voltes-Dorta, A., & Cugueró-Escofet, N. (2020). An early assessment of the impact of COVID-19 on air transport: Just another crisis or the end of aviation as we know it? *Journal of Transport Geography*, 86. doi:[10.1016/j.jtrangeo.2020.102749](https://doi.org/10.1016/j.jtrangeo.2020.102749)

- Sulkowski, L. (2020). Covid-19 pandemic; recession, virtual revolution leading to de-globalization? *Journal of Intercultural Management*, 12(1), 1–11. doi:[10.2478/joim-2020-0029](https://doi.org/10.2478/joim-2020-0029)
- Sun, H. (2011). Designing for social commerce experience as cultural consumption. In P. L. P. Rau (Ed.), *Internationalization, design and global development. IDGD 2011. Lecture notes in computer science* (Vol. 6775). Berlin: Springer. doi:[10.1007/978-3-642-21660-2\\_45](https://doi.org/10.1007/978-3-642-21660-2_45)
- Sun, J., Yamamoto, H., & Matsui, M. (2020). Horizontal integration management: An optimal switching model for parallel production system with multiple periods in smart supply chain environment. *International Journal of Production Economics*, 221, 1–11. doi:[10.1016/j.ijpe.2019.08.010](https://doi.org/10.1016/j.ijpe.2019.08.010)
- Suppatvech, C., Godsell, J., & Day, S. (2019). The roles of internet of things technology in enabling servitized business models: A systematic literature review. *Industrial Marketing Management*, 82, 70–86. doi:[10.1016/j.indmarman.2019.02.016](https://doi.org/10.1016/j.indmarman.2019.02.016)
- Swan, M. (2018, February–March). Blockchain economics: “Ripple for ERP”. *The European Financial Review*, 24–27.
- Talimciler, A. (2021). Financial football. Retrieved from <http://www.futbolekonomi.com/index.php/haberler-makaleler/genel/259-ahmet-talimciler/5138-finansal-futbol.html>
- Tan, L., & Wang, N. (2010, August). Future internet: The internet of things. In *2010 3rd international conference on advanced computer theory and engineering (ICACTE)* (Vol. 5, pp. V5–V376). IEEE. doi:[10.1109/ICACTE.2010.5579543](https://doi.org/10.1109/ICACTE.2010.5579543)
- Tanabe, S., Saitoh, E., Koyama, S., Kiyono, K., Tatemoto, T., Kumazawa, N., ... Ota, H. (2019). Designing a robotic smart home for everyone, especially the elderly and people with disabilities. *Fujita Medical Journal*, 5(2), 31–35. doi:[10.20407/fmj.2018-009](https://doi.org/10.20407/fmj.2018-009)
- Tarricone, R., & Tsouros, A. D. (Eds.). (2008). *Home care in Europe: The solid facts: Home care in Europe*. World Health Organization Regional Office Europe. ISBN: 978-92-890-4281-9
- Taylor, D. G., & Strutton, D. (2010). Has e-marketing come of age? Modeling historical influences on post-adoption era Internet consumer behaviors. *Journal of Business Research*, 63(9–10), 950–956. doi:[10.1016/j.jbusres.2009.01.018](https://doi.org/10.1016/j.jbusres.2009.01.018)
- TCDD. (2020). TCDD Taşımacılık Genel Müdürü Kamuran Yazıcı 5. Ekonomi Ve Lojistik Zirvesine Katıldı. <https://www.tcdttasimacilik.gov.tr/haber/498/>. Accessed on February 14, 2021.
- The Center for Universal Design. (1997). *The principles of universal design, version 2.0*. Raleigh, NC: North Carolina State University.
- The Industry 4.0 Platform. (2015). *Implementation strategy industry 4.0 report on the results of the industry 4.0 platform, Germany*.
- Thomas, I. (2018). *Three globalizations, not two: Rethinking the history and economics of trade and globalization*. FMM Working Paper, No. 18, Hans-Böckler-Stiftung, Macroeconomic Policy Institute (IMK), Forum for Macroeconomics and Macroeconomic Policies (FFM), Düsseldorf.
- Thompson, M. F., Tuzovic, S., & Braun, C. (2019). Trustmarks: Strategies for exploiting their full potential in e-commerce. *Business Horizons*, 62(2), 237–247. doi:[10.1016/j.bushor.2018.09.004](https://doi.org/10.1016/j.bushor.2018.09.004)

- Ting, D. S. W., Carin, L., Dzau, V., & Wong, T. Y. (2020). Digital technology and COVID-19. *Nature Medicine*, 26(4), 459–461. doi:[10.1038/s41591-020-0824-5](https://doi.org/10.1038/s41591-020-0824-5)
- Tiwari, A. (2020). Why sports will never be the same after coronavirus pandemic. Retrieved from <https://www.indiatoday.in/sports/other-sports/story/sports-future-players-fans-coronavirus-changes-COVID-19-pandemic-1675844-2020-05-08>
- Tixier, M. (2005). Globalization and localization of contents: Evolution of major internet sites across sectors of industry. *Thunderbird International Business Review*, 47(February), 15–48. doi:[10.1002/tie.20039](https://doi.org/10.1002/tie.20039)
- Tokic, K. (2014). Content analysis of the Croatian tourism library websites in relation to the information literacy. In S. Kurbanoglu, S. Špiranec, E. Grassian, D. Mizrahi, & R. Catts (Eds.), *Information literacy. Lifelong learning and digital citizenship in the 21st century. ECIL 2014. Communications in computer and information science* (Vol. 492). Cham: Springer. doi:[10.1007/978-3-319-14136-7\\_79](https://doi.org/10.1007/978-3-319-14136-7_79)
- Torbacki, W., & Kijewska, K. (2019). Identifying key performance indicators to be used in logistics 4.0 and industry 4.0 for the needs of sustainable municipal logistics by means of the DEMATEL method. *Green Cities 2018. Transportation Research Procedia*, 39, 534–543. doi:[10.1016/j.trpro.2019.06.055](https://doi.org/10.1016/j.trpro.2019.06.055)
- Tran, L. T. T. (2020). Managing the effectiveness of e-commerce platforms in a pandemic. *Journal of Retailing and Consumer Services*, 58, 102287. doi:[10.1016/j.jretconser.2020.102287](https://doi.org/10.1016/j.jretconser.2020.102287)
- Tromel, S., Menze, J., Fremlin, P. T., Bonino, C., Tussy, M., Pueyo, R., ... Irujo, C. (2019). Making the future of work inclusive of people with disabilities. Fundacion ONCE and the ILO Global Business and Disability Network. Retrieved from <http://hdl.voced.edu.au/10707/525819>
- Tsai, W. H. (2018). Green production planning and control for the textile industry by using mathematical programming and industry 4.0 techniques. *Energies*, 11(8), 2072. doi:[10.3390/en11082072](https://doi.org/10.3390/en11082072)
- Turkey Academy of Sciences (TÜBA). (2020). *COVID-19 pandemic assessment report*. Retrieved from <http://www.tuba.gov.tr/files/images/2020/kovidraporu/COVID-19%20Raporu-Final%2B.pdf>
- Turkish Ministry of Trade. (2021). Approved B2B marketplaces. Retrieved from [https://ticaret.gov.tr/data/5ecfcbe613b876cd54b69895/2573\\_Ticaret\\_Bakanligi\\_Onay\\_Verilen\\_Siteler\\_Listesi\\_2020\\_2.pdf](https://ticaret.gov.tr/data/5ecfcbe613b876cd54b69895/2573_Ticaret_Bakanligi_Onay_Verilen_Siteler_Listesi_2020_2.pdf). Accessed January 30, 2020.
- Twomey, D., & Mann, A. (2020). Fraud and manipulation within cryptocurrency markets. In C. Alexander & C. Douglas (Eds.), *Corruption and fraud in financial markets: Malpractice, misconduct and manipulation* (pp. 205–250). West Sussex: John Wiley & Sons.
- Tzeng, G. H., & Huang, J. J. (2011). *Multiple attribute decision making: Methods and applications*. Boca Raton, FL: CRC Press.
- UNCTAD (United Nations Conference on Trade and Development). (2020). *Key statistics and trends trade trends under the Covid-19 pandemic in international trade*. New York: United Nations Publications.
- UNEP (United Nations Environment Programme). (2020). *Emissions gap report 2020*. Nairobi.
- Urbinati, A., Bogers, M., Chiesa, V., & Frattini, F. (2019). Creating and capturing value from big data: A multiple-case study analysis of provider companies. *Technovation*, 84, 21–36. doi:[10.1016/j.technovation.2018.07.004](https://doi.org/10.1016/j.technovation.2018.07.004)

- Varey, R. J., & McKie, D. (2010). Staging consciousness: Marketing 3.0, post-consumerism and future pathways. *Journal of Customer Behavior*, 9(4), 321–334. doi:[10.1362/147539210X543538](https://doi.org/10.1362/147539210X543538)
- Vassileva, B. (2017). Marketing 4.0: How technologies transform marketing organization. *Óbuda University e-Bulletin*, 7(1), 47–56.
- Velasco, K. (2019). 8 real-life big data marketing examples. Retrieved from <https://www.lytics.com/blog/8-real-life-big-data-marketing-examples>. Accessed on November 15, 2020.
- Venkatesh, V., Morris, M. G., Davis, G. B., & Davis, F. D. (2003). User acceptance of information technology: Toward a unified view. *MIS Quarterly*, 27(3), 425–478. doi:[10.2307/30036540](https://doi.org/10.2307/30036540)
- Verl, A. (2017). *Robotics & industrie 4.0*. Stuttgart: ISW.
- Vermesan, O., Friess, P., Guillemin, P., Sundmaeker, H., Eisenhauer, M., Moessner, K., ... Cousin, P. (2013). Internet of things strategic research and innovation agenda. In O. Vermesan & P. Friess (Eds.), *Internet of things converging technologies for environments and integrated ecosystem*. River Publisher Series in Communications. ISBN: 978-87-92982-96-4.
- VIAR. (2018). How to prepare your workforce for industry 4.0. Retrieved from <https://medium.com/@viarbox/how-to-prepare-your-workforce-for-digitalization-and-industry-4-0-b92fb19b6047>
- Vickery, S. K., Jayaram, J., Droke, C., & Calantone, R. (2003). The effects of an integrative supply chain strategy on customer service and financial performance: An analysis of direct versus indirect relationships. *Journal of Operations Management*, 21(5), 523–539. doi:[10.1016/j.jom.2003.02.002](https://doi.org/10.1016/j.jom.2003.02.002)
- Vidya, C. T., & Prabhesh, K. P. (2020). Implications of COVID-19 pandemic on the global trade networks. *Emerging Markets Finance and Trade*, 56(10), 2408–2421. doi:[10.1080/1540496X.2020.1785426](https://doi.org/10.1080/1540496X.2020.1785426)
- Walczuch, R., Lemmink, J., & Streukens, S. (2007). The effect of service employees' technology readiness on technology acceptance. *Information & Management*, 44(2), 206–215. doi:[10.1016/j.im.2006.12.005](https://doi.org/10.1016/j.im.2006.12.005)
- Wamba, S. F., Akter, S., Edwards, A., Chopin, G., & Gnanzou, D. (2015). How 'big data' can make big impact: Findings from a systematic review and a longitudinal case study. *International Journal of Production Economics*, 165, 234–246. doi:[10.1016/j.ijpe.2014.12.031](https://doi.org/10.1016/j.ijpe.2014.12.031)
- Wang, K. (2016, November). Logistics 4.0 solution-new challenges and opportunities. In *6th international workshop of advanced manufacturing and automation*. Manchester: Atlantis Press. doi:[10.2991/iwama-16.2016.13](https://doi.org/10.2991/iwama-16.2016.13)
- Wang, G., Gunasekaran, A., Ngai, E. W. T., & Papadopoulos, T. (2016). Big data analytics in logistics and supply chain management: Certain investigations for research and applications. *International Journal of Production Economics*, 176, 98–110. doi:[10.1016/j.ijpe.2016.03.014](https://doi.org/10.1016/j.ijpe.2016.03.014)
- Wang, S., & Cavusoglu, H. (2015). Small and medium sized manufacturer performance on third party B2B electronic marketplaces: The role of enabling and IT capabilities. *Decision Support Systems*, 79, 184–194. doi:[10.1016/j.dss.2015.08.006](https://doi.org/10.1016/j.dss.2015.08.006)
- Wang, S., Mao, J.-Y., & Archer, N. (2012). On the performance of B2B e-markets: An analysis of organizational capabilities and market opportunities. *Electronic Commerce Research and Applications*, 11, 59–74. doi:[10.1016/j.elerap.2011.07.001](https://doi.org/10.1016/j.elerap.2011.07.001)

## 224 References

- Wasicek, A. (2020). The future of 5G smart home network security is micro-segmentation. *Network Security*, 11, 11–13. doi:[10.1016/S1353-4858\(20\)30129-X](https://doi.org/10.1016/S1353-4858(20)30129-X)
- Waslo, R., Lewis, T., Hajj, R., & Carton, R. (2017). Managing risk in an age of connected production. *Deloitte University Press*, 1, 1–22.
- Watson, C., McCarthy, J., & Rowley, J. (2013). Consumer attitudes towards mobile marketing in the smart phone era. *International Journal of Information Management*, 33(5), 840–849. doi:[10.1016/j.ijinfomgt.2013.06.004](https://doi.org/10.1016/j.ijinfomgt.2013.06.004)
- WBCSD (World Business Council for Sustainable Development). (2020). Macrotrends and Disruptions shaping 2020–2030. Retrieved from [https://docs.wbcsd.org/2020/05/WBCSD\\_V2050IB\\_Macrotrends\\_Disruptions\\_20202030.pdf](https://docs.wbcsd.org/2020/05/WBCSD_V2050IB_Macrotrends_Disruptions_20202030.pdf)
- Webber, S. C., Porter, M. M., & Menec, V. H. (2010). Mobility in older adults: A comprehensive framework. *The Gerontologist*, 50(4), 443–450. doi:[10.1093/geront/gnq013](https://doi.org/10.1093/geront/gnq013)
- Weber, R. H. (2010). Internet of things – New security and privacy challenges. *Computer Law & Security Review*, 26(1), 23–30. doi:[10.1016/j.clsr.2009.11.008](https://doi.org/10.1016/j.clsr.2009.11.008)
- Wedel, M., Bigné, E., & Zhang, J. (2020). Virtual and augmented reality: Advancing research in consumer marketing. *International Journal of Research in Marketing*, 37(3), 443–465. doi:[10.1016/j.ijresmar.2020.04.004](https://doi.org/10.1016/j.ijresmar.2020.04.004)
- Weil, D. (n.d.). The fissured workplace. What is the “fissured workplace”? Retrieved from <https://www.fissuredworkplace.net/the-problem.php>
- Werner-Lewandowska, K., & Kosacka-Olejnik, M. (2019). Logistics 4.0 maturity in service industry: Empirical research results. 29th international conference on flexible automation and intelligent manufacturing (FAIM2019), June 24–28, 2019, Limerick, Ireland. *Procedia Manufacturing*, 38, 1058–1065. doi:[10.1016/j.promfg.2020.01.192](https://doi.org/10.1016/j.promfg.2020.01.192)
- Westerlund, J. (2007). Testing for error correction in panel data. *Oxford Bulletin of Economics and Statistics*, 69(6), 709–748.
- Westerlund, M., Rajala, R., & Leminen, S. (2011). Insights into the dynamics of business models in the media industry. Laurea Julkaisut, A74. Published Report. Helsinki. ISBN 978-951-799-229-9.
- Westjohn, S. A., Arnold, M. J., Magnusson, P., Zdravkovic, S., & Zhou, J. X. (2009). Technology readiness and usage: A global-identity perspective. *Journal of the Academy of Marketing Science*, 37(3), 250–265. doi:[10.1007/s11747-008-0130-0](https://doi.org/10.1007/s11747-008-0130-0)
- WeWalk. (n.d.). The perfect pairing for ultimate visually impaired mobility. Retrieved from <https://bewalk.io/en/product/>. Accessed on November 10, 2020.
- WHO. (n.d.). WHO coronavirus disease (COVID-19) dashboard. Retrieved from <https://covid19.who.int/>
- Wikipedia. (2021). Impact of the COVID-19 pandemic on association football. Retrieved from [https://en.wikipedia.org/wiki/Impact\\_of\\_the\\_COVID-19\\_pandemic\\_on\\_association\\_football](https://en.wikipedia.org/wiki/Impact_of_the_COVID-19_pandemic_on_association_football)
- Wirtz, J., & Lovelock, C. H. (2018). *Essentials of services marketing*. Essex: Pearson.
- Witkowski, K. (2017). Innovative solutions in logistics and supply chains management. 7th international conference on engineering, project, and production management internet of things, big data, industry 4.0. *Procedia Engineering*, 182, 763–769. doi:[10.1016/j.proeng.2017.03.197](https://doi.org/10.1016/j.proeng.2017.03.197)
- Wood, A., Graham, M., & Lehdovirta, V. (2019). Networked but commodified: The (dis)embeddedness of digital labour in the gig economy. *Sociology*, 53(5), 931–950. doi:[10.1177/0038038519828906](https://doi.org/10.1177/0038038519828906)

- Wooldridge, J. M. (2002). *Econometric analysis of cross section and panel data*. Cambridge, MA: MIT Press.
- Wooldridge, J. M. (2010). *Econometric analysis of cross section and panel data* (2nd ed.). Cambridge, MA: MIT Press.
- WorldBank. (2021). *World bank open data*. Retrieved from <https://data.worldbank.org/>
- World Economic Forum. (2017). *Shaping the future of retail for consumer industries*. Retrieved from <https://www.weforum.org/reports/shaping-the-future-of-retail-for-consumer-industries>. Accessed on November 15, 2020.
- World Economic Forum. (2018). *The future of jobs report 2018*. Retrieved from [http://www3.weforum.org/docs/WEF\\_Future\\_of\\_Jobs\\_2018.pdf](http://www3.weforum.org/docs/WEF_Future_of_Jobs_2018.pdf)
- World Economic Forum. (2020). *The future of jobs report 2020*. Retrieved from <https://www.weforum.org/reports/the-future-of-jobs-report-2020/digest>
- World Health Organization. (2001). Impairments, activity limitations, and participation restrictions. Retrieved from <https://www.who.int/classifications/icf/en/>. Accessed on November 10, 2020.
- World Health Organization. (2018, January 16). *Disability and health*. Retrieved from <https://www.who.int/news-room/fact-sheets/detail/disability-and-health>. Accessed on November 10, 2020.
- World Health Organization. (2020, March 1). *Deafness and hearing loss*. Retrieved from <https://www.who.int/news-room/fact-sheets/detail/deafness-and-hearing-loss>. Accessed on November 11, 2020.
- World Trade Organization. (2020). WTO goods barometer flashes red as COVID-19 disrupts world trade. Retrieved from [https://www.wto.org/english/news\\_e/news20\\_e/wtoi\\_19may20\\_e.pdf](https://www.wto.org/english/news_e/news20_e/wtoi_19may20_e.pdf)
- Wortmann, F., & Flüchter, K. (2015). Internet of things. *Business & Information Systems Engineering*, 57(3), 221–224. doi:[10.1007/s12599-015-0383-3](https://doi.org/10.1007/s12599-015-0383-3)
- Wottrich, V. M., van Reijmersdal, E. A., & Smit, E. G. (2018). The privacy trade-off for mobile app downloads: The roles of app value, intrusiveness, and privacy concerns. *Decision Support Systems*, 106, 44–52. doi:[10.1016/j.dss.2017.12.003](https://doi.org/10.1016/j.dss.2017.12.003)
- Wu, J., Liao, H., & Wang, J. W. (2020). Analysis of consumer attitudes towards autonomous, connected, and electric vehicles: A survey in China. *Research in Transportation Economics*, 80, 100828. doi:[10.1016/j.retrec.2020.100828](https://doi.org/10.1016/j.retrec.2020.100828)
- Wu, J. T., Leung, K., & Leung, G. M. (2020). Nowcasting and forecasting the potential domestic and international spread of the 2019-nCoV outbreak originating in Wuhan, China: A modelling study. *The Lancet*, 395(10225), 689–697. doi:[10.1016/S0140-6736\(20\)30260-9](https://doi.org/10.1016/S0140-6736(20)30260-9)
- Wu, L., Yue, X., Jin, A., & Yen, C. D. (2016). Smart supply chain management: A review and implications for future research. *The International Journal of Logistics Management*, 27(2), 395–417. doi:[10.1108/IJLM-02-2014-0035](https://doi.org/10.1108/IJLM-02-2014-0035)
- Wuest, T., Kusiak, A., Dai, T. & Tayur, S. (2020). Impact of COVID-19 on manufacturing and supply networks—The case for AI-inspired digital transformation. doi:[10.2139/ssrn.3593540](https://doi.org/10.2139/ssrn.3593540)
- Xiao, L., & Kumar, V. (2021). Robotics for customer service: A useful complement or an ultimate substitute? *Journal of Service Research*, 24(1), 9–29. doi:[10.1177/1094670519878881](https://doi.org/10.1177/1094670519878881)
- Yamano, N., & Guilhoto, J. (2020). *CO2 emissions embodied in international trade and domestic final demand: Methodology and results using the OECD Inter-Country*

## 226 References

- Input-Output Database.* OECD Science, Technology and Industry Working Papers, No. 2020/11. OECD Publishing, Paris. doi:[10.1787/8f2963b8-en](https://doi.org/10.1787/8f2963b8-en)
- Yang, S., Carlson, J. R., & Chen, S. (2020). How augmented reality affects advertising effectiveness: The mediating effects of curiosity and attention toward the ad. *Journal of Retailing and Consumer Services*, 54, 102020. doi:[10.1016/j.jretconser.2019.102020](https://doi.org/10.1016/j.jretconser.2019.102020)
- Yaoyuneyong, G., Foster, J., Johnson, E., & Johnson, D. (2016). Augmented reality marketing: Consumer preferences and attitudes toward hypermedia print ads. *Journal of Interactive Advertising*, 16(1), 16–30. doi:[10.1080/15252019.2015.1125316](https://doi.org/10.1080/15252019.2015.1125316)
- Yaqoob, I., Hashem, I. A. T., Gani, A., Mokhtar, S., Ahmed, E., Anuar, N. B., & Vasilakos, A. V. (2016). Big data: From beginning to future. *International Journal of Information Management*, 36(6), 1231–1247. doi:[10.1016/j.ijinfomgt.2016.07.009](https://doi.org/10.1016/j.ijinfomgt.2016.07.009)
- Yavas, V., & Ozkan-Ozen, Y. D. (2020). Logistics centers in the new industrial era: A proposed framework for logistics center 4.0. *Transportation Research Part E: Logistics and Transportation Review*, 135, 1–18. doi:[10.1016/j.tre.2020.101864](https://doi.org/10.1016/j.tre.2020.101864)
- Ye, Q., Zhou, J., & Wu, H. (2020). Using information technology to manage the COVID-19 pandemic: Development of a technical framework based on practical experience in China. *JMIR Medical Informatics*, 8(6), 1–9. doi:[10.2196/19515](https://doi.org/10.2196/19515)
- Yıldırım, A. (1999). Nitel Araştırma Yöntemlerinin Temel Özellikleri ve Eğitim Araştırmalarındaki Yeri ve Önemi. *Eğitim ve Bilim*, 23(112), 7–17. <http://egitimvebilim.ted.org.tr/index.php/EB/article/view/5327/1486>
- Yıldız, A. (2018). Endüstri 4.0 ile bütünlendirilmiş dijital tedarik zinciri. *BMIJ*, 6(4), 1215–1230. doi:[10.15295/bmij.v6i4.322](https://doi.org/10.15295/bmij.v6i4.322)
- Yılmaz, E. (2019). Content analysis of master's and doctoral dissertations on inclusive education in Turkey. *Kastamonu Education Journal*, 27(1), 119–127. doi:[10.24106/kefdergi.2402](https://doi.org/10.24106/kefdergi.2402)
- Yılmaz, Ü., & Duman, B. (2018). Artırılmış Gerçeklik Teknolojisiniin Lojistik Faaliyetleri Üzerine Olan Etkilerinin İncelenmesi. *Uluslararası İnsan Çalışmaları Dergisi*, 2(3), 1–7. doi:[10.35235/uicd.464839](https://doi.org/10.35235/uicd.464839)
- Yılmaz, Ü., & Duman, B. (2019). Lojistik 4.0 Kavramına Genel Bir Bakış: Geçmişten Bugüne Gelişim ve Değişimi. *Bilecik Şeyh Edebali Üniversitesi Sosyal Bilimler Enstitüsü Dergisi*, 4(1), 186–200. doi:[10.33905/bseusbed.465962](https://doi.org/10.33905/bseusbed.465962)
- Yim, M. Y. C., & Park, S. Y. (2019). “I am not satisfied with my body, so I like augmented reality (AR)”: Consumer responses to AR-based product presentations. *Journal of Business Research*, 100, 581–589.
- Yu, H., Tullio-Pow, S., & Akhtar, A. (2015). Retail design and the visually impaired: A needs assessment. *Journal of Retailing and Consumer Services*, 24, 121–129. doi:[10.1016/j.jretconser.2015.03.001](https://doi.org/10.1016/j.jretconser.2015.03.001)
- Zhang, H., & Xiao, Y. (2020). Customer involvement in big data analytics and its impact on B2B innovation. *Industrial Marketing Management*, 86, 99–108. doi:[10.1016/j.indmarman.2019.02.020](https://doi.org/10.1016/j.indmarman.2019.02.020)
- Zhang, K., Qu, T., Zhou, D., Thürer, M., Liu, Y., Nie, D., ... Huang, G. Q. (2019). IoT-enabled dynamic lean control mechanism for typical production systems. *Journal of Ambient Intelligence and Humanized Computing*, 10(3), 1009–1023. doi:[10.1007/s12652-018-1012-z](https://doi.org/10.1007/s12652-018-1012-z)

- Zhou, L., Zhang, P., & Zimmermann, H. D. (2013). Social commerce research: An integrated view. *Electronic Commerce Research and Applications*, 12(2), 61–68. doi: [10.1016/j.elerap.2013.02.003](https://doi.org/10.1016/j.elerap.2013.02.003)
- Zhu, N., Diethe, T., Camplani, M., Tao, L., Burrows, A., Twomey, N., ... Craddock, I. (2015). Bridging e-health and the internet of things: The sphere project. *IEEE Intelligent Systems*, 30(4), 39–46. doi: [10.1109/MIS.2015.57](https://doi.org/10.1109/MIS.2015.57)
- Ziegeldorf, J. H., Morchon, O. G., & Wehrle, K. (2014). Privacy in the internet of things: Threats and challenges. *Security and Communication Networks*, 7(12), 2728–2742. doi: [10.1002/sec.795](https://doi.org/10.1002/sec.795)
- Zisser, H., Robinson, L., Bevier, W., Dassau, E., Ellingsen, C., Doyle III, F. J., & Jovanovic, L. (2008). Bolus calculator: A review of four “smart” insulin pumps. *Diabetes Technology & Therapeutics*, 10(6), 441–444. doi: [10.1089/dia.2007.0284](https://doi.org/10.1089/dia.2007.0284)