Association for Information Systems

AIS Electronic Library (AISeL)

Wirtschaftsinformatik 2022 Proceedings

Track 7: Digital Business Models & Entrepreneurship

Jan 17th, 12:00 AM

The Impact of Signaling Commitment to Ethical AI on Organizational Attractiveness

Sünje Clausen University of Duisburg-Essen, Faculty of Engineering, Duisburg, Germany, suenje.clausen@uni-due.de

Felix Brünker University of Duisburg-Essen, Faculty of Engineering, Duisburg, Germany, felix.bruenker@uni-due.de

Anna-Katharina Jung University of Duisburg-Essen, Faculty of Engineering, Duisburg, Germany, anna-katharina.jung@uni-due.de

Stefan Stieglitz University of Duisburg-Essen, Faculty of Engineering, Duisburg, Germany, stefan.stieglitz@uni-due.de

Follow this and additional works at: https://aisel.aisnet.org/wi2022

Recommended Citation

Clausen, Sünje; Brünker, Felix; Jung, Anna-Katharina; and Stieglitz, Stefan, "The Impact of Signaling Commitment to Ethical AI on Organizational Attractiveness" (2022). *Wirtschaftsinformatik 2022 Proceedings*. 10.

https://aisel.aisnet.org/wi2022/digital_business_models/digital_business_models/10

This material is brought to you by the Wirtschaftsinformatik at AIS Electronic Library (AISeL). It has been accepted for inclusion in Wirtschaftsinformatik 2022 Proceedings by an authorized administrator of AIS Electronic Library (AISeL). For more information, please contact elibrary@aisnet.org.

The Impact of Signaling Commitment to Ethical AI on Organizational Attractiveness

Sünje Clausen¹, Felix Brünker¹, Anna-Katharina Jung¹, Stefan Stieglitz¹

¹ University of Duisburg-Essen, Faculty of Engineering, Duisburg, Germany {suenje.clausen, felix.bruenker, anna-katharina.jung, stefan.stieglitz}@uni-due.de

Abstract. As organizations drive the development and deployment of Artificial Intelligence (AI)-based technologies, their commitment to ethical and humanistic values is critical to minimizing potential risks. Here, we investigate talent attraction as an economic incentive for organizations to commit to ethical AI. Based on Corporate Social Responsibility (CSR) literature and signaling theory, we present a mixed-methods research design to investigate the effect of ethical AI commitment on organizational attractiveness. Specifically, we i) identify signals of ethical AI commitment based on a review of corporate websites and expert interviews and ii) examine the effect of selected signals on organizational attractiveness in an online experiment. This short paper presents first results on ethical AI signals and details the next steps. Our research will contribute to the theoretical conceptualization of ethical AI as a part of CSR and support managers of digital transformation processes when weighing investments in ethical AI initiatives.

Keywords: Signaling Theory, Corporate Social Responsibility, Organizational Attractiveness, Artificial Intelligence, Ethics

1 Motivation

Artificial Intelligence (AI), that is, the "increasing capability of machines to perform specific roles and tasks currently performed by humans within the workplace and society in general" [1, p. 2], is considered a key element for value creation in organizations and obtaining competitive advantages in the digital transformation [2]. While AI-based technologies are increasingly integrated in organizations [3], they are also a subject of concern [4, 5] especially due to their complexity and adaptability impeding the anticipation of adverse outcomes [6]. Thereby, legal guidelines and frameworks for the development and deployment of AI are still in their infancy and transferring them into practice can be challenging [6] and is strongly dependent on the priorities within organizations [7]. Thus, the initiatives of organizations to strive for *AI*-based technologies as a force of good which empower humans and benefit society (here referred to as "ethical AI") are a crucial step for avoiding potential harms and should be a part of any company's corporate social responsibility (CSR) initiatives.

CSR has its roots in normative ethics [8] and has been defined as an "organization's voluntary efforts to operate ethically and promote the social and economic welfare of

¹⁷th International Conference on Wirtschaftsinformatik, February 2022, Nürnberg, Germany

internal and external stakeholders" [9, p. 872]. The view that organizations ought to take more responsibility for the social and economic impact of digital technologies is also reflected in the recently proposed concept of corporate *digital* responsibility (CDR; [10]). Yet, regardless of normative considerations, the historical development of CSR shows that *economic incentives* are indispensable for organizations engaging in CSR activities [11]. Accordingly, previous research addressed how *doing good* (i.e., being ethical) and *doing well* (i.e., making profit) could be reconciled [12, 13] and identified arguments in the "business case for CSR" [14]. This raises the question: which economic incentives exist for organizations to voluntarily commit to ethical AI?

One such economic incentive could be a competitive advantage in attracting and retaining talent [14] which is one of the most important factors for sustained business success [15]. Due to demographic developments and changing demands in the job market, the competition among organizations for recruiting talented employees has intensified [16, 17]. Thereby, CSR initiatives (e.g., sustainable practices) were found to increase organizational attractiveness and employer attractiveness [18, 19] as well as job choice intentions [20, 21]. Moreover, Ronda et al. found that CSR is a nonnegotiable attribute for some applicants: If a company did not meet CSR requirements, job offers were rejected in 31% of the cases, regardless of other attributes [22]. Thus, CSR serves as a competitive advantage for attracting talent [23, 24]. Here, organizational attractiveness refers to one's (positive) attitude toward an organization and perceived desirability of entering an employment relationship. The effect of CSR on organizational attractiveness has been explained with signaling theory [25, 26] which assumes that CSR initiatives convey information about the companies' values and practices. The effect on the perceived organizational attractiveness of prospective applicants is mediated through perceived value fit with an organization, anticipated pride of working for an organization, and expected treatment in an organization [18].

Against this backdrop, we suggest that signaling commitment to ethical AI as a part of CSR could signal desirable qualities about an organization and thus serve as a competitive advantage in attracting and retaining talent. Accordingly, we formulate the following research question: *How does signaling commitment to ethical AI impact organizational attractiveness?*

To answer this research question, we draw on signaling theory, CSR-, and organizational attractiveness literature [9, 18, 26] and follow a mixed methods approach to i) identify signals of commitment to ethical AI based on a review of corporate websites and an interview study and ii) examine the effect of these signals on organizational attractiveness in an online experiment. Here, we present our approach and first results for identifying ethical AI signals and the design for the online experiment. Our research will contribute to the conceptualization of CSR regarding ethical AI initiatives, empirically test the model of signaling mechanisms by Jones and colleagues [18] in a new context, and support managers of digital transformation processes when weighing the costs and benefits of ethical AI initiatives. It could present a strategy for *doing well by doing good* [12] and synergistically achieving instrumental (i.e., increasing profit through improved talent attraction) and humanistic (i.e., social welfare through a focus on ethical AI) outcomes when developing or deploying AI systems in organizations [cf. 27].

2 Research Design

2.1 Signaling commitment to ethical AI

To identify signals of commitment to ethical AI, we reviewed the websites of companies which i) develop and/or apply AI technologies and ii) are listed among "The 2021 World's Most Ethical Companies" by the Ethisphere Institute. The rating evaluates the company's i) Ethics and Compliance Program, ii) Culture of Ethics, iii) Corporate Citizenship and Responsibility, iv) Governance, and v) Leadership and Reputation based on company-reported data, supplementary documentation, publicly available information, and, if necessary, additional research. While it is not focused on ethical AI specifically, we expected that a software, IT- or technology organization ranking highly in these areas of ethical conduct is also likely to be committed to ethical AI. Thus, we expected that the online presence of such companies would provide informative examples for signaling commitment to ethical AI to relevant stakeholders.

From the 2021 list, we selected companies from the industries "Software & Services", "Information Technology Services", and "Technology" which indicated on their website that they develop or use AI technology (i.e., Infosys, wipro (IND), DellTechnologies, HewlettPackard Enterprise, IBM, leidos, Microsoft, Salesforce, workday (USA)). The websites of these companies were reviewed for information related to *costly* initiatives in the field of AI technology and ethics. According to signaling theory, a signal only conveys information to the recipient if it is costly. Otherwise, it could be acquired by anyone and thus would lose its informational quality [25]. Zerbini [26] developed an overview of CSR signals and distinguishes between dissipative costs (i.e., must always be paid for acquiring a signal, for example hiring an Ethics Officer) and penalty costs (i.e., must only be paid if signals turn out to be untrue, for example if a company is sued for not following its own code of ethics). Table 1 shows exemplary signals retrieved from the websites of IBM and Salesforce and their classification based on Zerbini [26].

To validate, prioritize, and potentially complement the list of identified ethical AI signals, semi-structured interviews will be conducted with each 3-5 individuals from i) Human Resources or Management, ii) Business Ethics, and iii) prospective applicants in the technology sector. The first part of the semi-structured interview includes questions about the background and position of the interviewee, the perceived relevance of ethical behavior of an organization in job choice, and if they can think of initiatives of organizations which make them appear more ethical to them. In the second part, the identified ethical AI signals will be discussed with four guiding questions: How do you perceive the costs or difficulty of implementing or acquiring the signal? How does the signal impact organizational attractiveness for you? How relevant do you consider the signal from an ethical or societal point of view? What would make this signal (in)sincere for you? The interviews will be transcribed and coded according to qualitative content analysis [28]. A subset of ethical AI signals will then be implemented on the website of a fictious technology company called "Cladus" as a corporate website is often the first point of contact for job seekers.

Company Observable Signals Classification based on [26]; new signals Salesforce Chief ethical and ethical use officer and "Office of Ethical and Ethical Use of Technology" with advisory council Ethics committee Guiding principles (e.g., privacy, safety) and AI ethics commitment (e.g., accountable, transparent) Code of ethics Certifications, standards, regulations (e.g., ISO 27018 for data privacy) Trust marks (certifications) Building awareness for employees (e.g., consequence scanning) Training programs consequence scanning) IBM AI ethics board, IBM Policy Lab Ethics committee(s) Trust and transparency principles (e.g., augment- not replace, explainability) Corporate disclosure (knowledge sharing) Open-source software toolkits (e.g., AI Corporate disclosure (knowledge sharing) European Commission Expert Group on AI, Global Partnership on AI, IEEE Trust marks Global initiative on AI Ethics TechEthicsLab (with University of Notre Dame) – research collaboration Self-restriction Self-restriction not to develop general facial recognition software until legal framework is refined Self-restriction			
SalesforceChief ethical and ethical use officer and "Office of Ethical and Ethical Use of Technology" with advisory councilEthics committeeGuiding principles (e.g., privacy, safety) and AI ethics commitment (e.g., accountable, transparent)Code of ethicsCertifications, standards, regulations (e.g., ISO 27018 for data privacy)Trust marks (certifications)Building awareness for employees (e.g., consequence scanning)Training programsIBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Corporate disclosure (knowledge sharing)Open-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Dame) – research collaborationTrust marks (memberships)Global initiative on AI EthicsResearchDame) – research collaborationSelf-restrictionSelf-restriction not to develop general facial recognition software until legalSelf-restriction	Company	Observable Signals	Classification based
"Office of Ethical and Ethical Use of Technology" with advisory councilEthics committeeGuiding principles (e.g., privacy, safety) and AI ethics commitment (e.g., accountable, transparent)Code of ethicsCertifications, standards, regulations (e.g., ISO 27018 for data privacy)Trust marks 			on [26]; new signals
Technology" with advisory councilGuiding principles (e.g., privacy, safety) and AI ethics commitment (e.g., accountable, transparent)Code of ethicsCertifications, standards, regulations (e.g., ISO 27018 for data privacy)Trust marks (certifications)Building awareness for employees (e.g., consequence scanning)Training programsIBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Corporate disclosure (knowledge sharing)Open-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE (memberships)Trust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaboration <i>Self-restriction</i> Self-restriction not to develop general facial recognition software until legalSelf-restriction	Salesforce	Chief ethical and ethical use officer and	Ethics officer
Guiding principles (e.g., privacy, safety) and AI ethics commitment (e.g., accountable, transparent)Code of ethicsCertifications, standards, regulations (e.g., ISO 27018 for data privacy)Trust marks (certifications)Building awareness for employees (e.g., consequence scanning)Training programs consequence scanning)IBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Code of ethicsOpen-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE (memberships)Trust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationSelf-restriction facial recognition software until legal		"Office of Ethical and Ethical Use of	Ethics committee
and AI ethics commitment (e.g., accountable, transparent)Certifications, standards, regulations (e.g., ISO 27018 for data privacy)Trust marks (certifications)Building awareness for employees (e.g., consequence scanning)Training programsIBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Code of ethicsOpen-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsSelf-restriction facial recognition software until legal		Technology" with advisory council	
accountable, transparent)Certifications, standards, regulations (e.g., ISO 27018 for data privacy)Trust marks (certifications)Building awareness for employees (e.g., consequence scanning)Training programsIBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Code of ethicsOpen-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsEthicsTechEthicsLab (with University of Notre Dame) – research collaborationSelf-restriction Self-restriction software until legal		Guiding principles (e.g., privacy, safety)	Code of ethics
Certifications, standards, regulations (e.g., ISO 27018 for data privacy)Trust marks (certifications)Building awareness for employees (e.g., consequence scanning)Training programsIBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Code of ethicsOpen-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsSelf-restriction facial recognition software until legal		and AI ethics commitment (e.g.,	
(e.g., ISO 27018 for data privacy)(certifications)Building awareness for employees (e.g., consequence scanning)Training programsIBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Code of ethicsOpen-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationSelf-restriction facial recognition software until legal		accountable, transparent)	
Building awareness for employees (e.g., consequence scanning)Training programs consequence scanning)IBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Code of ethicsOpen-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE (memberships)Trust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationSelf-restriction facial recognition software until legal		Certifications, standards, regulations	Trust marks
consequence scanning)IBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Code of ethicsOpen-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationSelf-restriction Self-restriction software until legal		(e.g., ISO 27018 for data privacy)	(certifications)
IBMAI ethics board, IBM Policy LabEthics committee(s)Trust and transparency principles (e.g., augment- not replace, explainability)Code of ethicsOpen-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaboration <i>Self-restriction</i> facial recognition software until legal		Building awareness for employees (e.g.,	Training programs
Trust and transparency principles (e.g., augment- not replace, explainability)Code of ethicsOpen-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationResearch Self-restrictionSelf-restriction not to develop general facial recognition software until legalSelf-restriction		consequence scanning)	
augment- not replace, explainability)Open-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationResearch Self-restrictionSelf-restriction not to develop general facial recognition software until legalSelf-restriction	IBM	AI ethics board, IBM Policy Lab	Ethics committee(s)
Open-source software toolkits (e.g., AI Fairness 360 to find biases)Corporate disclosure (knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationResearch Self-restrictionSelf-restriction not to develop general facial recognition software until legalSelf-restriction		Trust and transparency principles (e.g.,	Code of ethics
Fairness 360 to find biases)(knowledge sharing)European Commission Expert Group on AI, Global Partnership on AI, IEEE Global initiative on AI EthicsTrust marks (memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationResearchSelf-restriction not to develop general facial recognition software until legalSelf-restriction		augment- not replace, explainability)	
European Commission Expert Group on AI, Global Partnership on AI, IEEETrust marks (memberships)Global initiative on AI Ethics(memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationSelf-restriction not to develop general facial recognition software until legalSelf-restriction		Open-source software toolkits (e.g., AI	Corporate disclosure
AI, Global Partnership on AI, IEEE Global initiative on AI Ethics(memberships)Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationResearchSelf-restriction not to develop general facial recognition software until legalSelf-restriction		Fairness 360 to find biases)	(knowledge sharing)
Global initiative on AI EthicsTechEthicsLab (with University of Notre Dame) – research collaborationSelf-restriction not to develop general facial recognition software until legal		European Commission Expert Group on	Trust marks
TechEthicsLab (with University of Notre Dame) – research collaborationResearchSelf-restriction not to develop general facial recognition software until legalSelf-restriction		AI, Global Partnership on AI, IEEE	(memberships)
Dame) - research collaborationSelf-restriction not to develop general facial recognition software until legalSelf-restriction		Global initiative on AI Ethics	
Self-restriction not to develop general facial recognition software until legalSelf-restriction		TechEthicsLab (with University of Notre	Research
facial recognition software until legal		Dame) – research collaboration	
			Self-restriction
framework is refined			
		framework is refined	

Table 1. Examples of signaling commitment to ethical AI

2.2 Impact of ethical AI signals on organizational attractiveness

The empirical evaluation of the website is based on the theoretical model by Jones et al. [18] as we investigate if the identified signals of commitment to ethical AI increase organizational attractiveness both directly and mediated by anticipated pride/organizational prestige, perceived value fit, and expected treatment. Additionally, as insincerity of the signals might torpedo the effect [26, 29], we include perceived signal quality as a moderator of the relationship. We formulate the following hypotheses (visualized in Figure 1):

H1a-c: Signals of commitment to ethical AI increase a) the anticipated pride/organizational prestige, b) the perceived value fit, and c) the expected treatment. **H2a-c**: The effect of the signals of commitment to ethical AI on a) the anticipated pride/organizational prestige, b) the perceived value fit, and c) expected treatment is positively moderated by a high perceived signal quality.

H3a-c: The a) anticipated pride/organizational prestige, b) perceived value fit, and c) expected treatment increase the perceived organizational attractiveness.

H4: Signals of commitment to ethical AI increase the perceived organizational attractiveness.

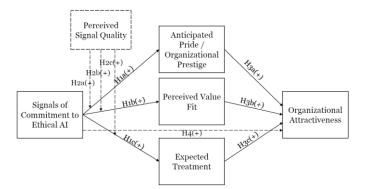


Figure 1. Adapted research model [18] of the effects of signals of commitment to ethical AI on organizational attractiveness

For the main study, we plan to recruit at least 200 participants (matching N = 180 in Jones et al. [18]) who have an educational or professional background in IT. In a between-groups design, the participants will be asked to imagine that they are looking for a new job and want to evaluate if Cladus would be a suitable employer. There will be three groups with different websites: Group 1 (baseline), group 2 (ethical AI signals), and group 3 (ethical AI signals + general CSR information). This allows for quantifying the added value of ethical AI commitment. For realism, only positive and a multitude of ethical AI signals are included on the website. Other potentially relevant factors for job choice (e.g., salary) are mentioned on the website in all conditions. Following the methodological approach of Jones et al. [18] we use the same scales for measuring anticipated pride [30], perceived value fit [18], expected treatment [18], organizational attractiveness [31], and will derive questions for perceived signal quality from related measures. For analyzing the data, we aim to conduct multiple regression analysis including the examination of mediators and moderator effects as visualized in Figure 1. We also aim to examine potential group differences that might result based on the applied signals. Furthermore, as other studies found CSR to be especially important for attracting millennials [9] and women [22], we will consider individual demographics (age, gender, AI experience) to exploratively check for group influences.

3 Conclusion

This short paper proposes a study to addresses the research gap regarding the role of ethical AI as a part of CSR and a possible economic incentive for organizations to commit to ethical AI. Organizations drive AI innovation and use, and their choices have implications for society and individuals. On a theoretical level, the study will contribute to the understanding of signal-based mechanisms and organizational attractiveness by transferring Jones et al.s' [18] model to the context of ethical AI and additionally considering the role of perceived signal quality. It will also add to the conceptualization of CSR in research to include ethical AI and potentially add types of signals (e.g., self-restriction) to existing overviews [26].

4 References

- Dwivedi, Y.K., Hughes, L., Ismagilova, E., Aarts, G., Coombs, C., Crick, T., Duan, Y., Dwivedi, R., Edwards, J., Eirug, A., et al.: Artificial Intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy. International Journal of Information Management, vol. 57, 101994 (2021). doi: 10.1016/j.ijinfomgt.2019.08.002
- Borges, A.F., Laurindo, F.J., Spínola, M.M., Gonçalves, R.F., Mattos, C.A.: The strategic use of artificial intelligence in the digital era: Systematic literature review and future research directions. International Journal of Information Management, vol. 57, 102225 (2021). doi: 10.1016/j.ijinfomgt.2020.102225
- Frick, N., Brünker, F., Ross, B., Stieglitz, S.: Design requirements for AI-based services enriching legacy information systems in enterprises: A managerial perspective. In: Proceedings of the 31st Australasian Conference on Information Systems (ACIS), pp. 1–4 (2020)
- Benbya, H., Pachidi, S., Jarvenpaa, S.L.: Special issue editorial: Artificial intelligence in organizations: Implications for information systems research. Journal of the Association for Information Systems, vol. 22, 281–303 (2021). doi: 10.17705/1jais.00662
- Floridi, L., Cowls, J., Beltrametti, M., Chatila, R., Chazerand, P., Dignum, V., Luetge, C., Madelin, R., Pagallo, U., Rossi, F., et al.: AI4People—An Ethical Framework for a Good AI Society: Opportunities, Risks, Principles, and Recommendations. Minds and Machines, vol. 28, 689–707 (2018). doi: 10.1007/s11023-018-9482-5
- Asatiani, A., Malo, P., Nagbøl, P.R., Penttinen, E., Rinta-Kahila, T., Salovaara, A.: Sociotechnical Envelopment of Artificial Intelligence: An Approach to Organizational Deployment of Inscrutable Artificial Intelligence Systems. Journal of the Association for Information Systems, vol. 22, 8 (2021). doi: 10.17705/1jais.00664
- Martin, K.: Designing Ethical Algorithms. MIS Quarterly Executive, vol. 18, 129–142 (2019). doi: 10.17705/2msqe.00012
- Bowen, H.R.: Social responsibility of the businessman. Harper, New York, NY (1953)
- Waples, C.J., Brachle, B.J.: Recruiting millennials: Exploring the impact of CSR involvement and pay signaling on organizational attractiveness. Corporate Social Responsibility and Environmental Management, vol. 27, 870–880 (2020). doi: 10.1002/csr.1851
- Lobschat, L., Mueller, B., Eggers, F., Brandimarte, L., Diefenbach, S., Kroschke, M., Wirtz, J.: Corporate digital responsibility. Journal of Business Research, vol. 122, 875–888 (2021). doi: 10.1016/j.jbusres.2019.10.006
- Bansal, P., Song, H.-C.: Similar But Not the Same: Differentiating Corporate Sustainability from Corporate Responsibility. Academy of Management Annals, vol. 11, 105–149 (2016). doi: 10.5465/annals.2015.0095
- 12. Falck, O., Heblich, S.: Corporate social responsibility: Doing well by doing good. Business Horizons, vol. 50, 247–254 (2007). doi: 10.1016/j.bushor.2006.12.002

- Yang, X., Li, Y., Kang, L.: Reconciling "doing good" and "doing well" in organizations' green IT initiatives: A multi-case analysis. International Journal of Information Management, vol. 51, 102052 (2020). doi: 10.1016/j.ijinfomgt.2019.102052
- Carroll, A.B., Shabana, K.M.: The Business Case for Corporate Social Responsibility: A Review of Concepts, Research and Practice. International Journal of Management Reviews, vol. 12, 85–105 (2010). doi: 10.1111/j.1468-2370.2009.00275.x
- Rynes, S.L., Barber, A.E.: Applicant Attraction Strategies: An Organizational Perspective. Academy of Management Review, vol. 15, 286–310 (1990). doi: 10.5465/amr.1990.4308158
- Celani, A., Singh, P.: Signaling theory and applicant attraction outcomes. Personnel review, vol. 40, 222-238 (2011). doi: 10.1108/00483481111106093
- Evertz, L., Süß, S.: The importance of individual differences for applicant attraction: a literature review and avenues for future research. Management Review Quarterly, vol. 67, 141–174 (2017). doi: 10.1007/s11301-017-0126-2
- Jones, D.A., Willness, C.R., Madey, S.: Why Are Job Seekers Attracted by Corporate Social Performance? Experimental and Field Tests of Three Signal-Based Mechanisms. Academy of management journal, vol. 57, 383–404 (2014). doi: 10.5465/amj.2011.0848
- Klimkiewicz, K., Oltra, V.: Does CSR Enhance Employer Attractiveness? The Role of Millennial Job Seekers' Attitudes. Corp. Soc. Responsib. Environ. Mgmt., vol. 24, 449–463 (2017). doi: 10.1002/csr.1419
- Dawkins, C.E., Jamali, D., Karam, C., Lin, L., Zhao, J.: Corporate Social Responsibility and Job Choice Intentions: A Cross-Cultural Analysis. Business & Society, vol. 55, 854–888 (2016). doi: 10.1177/0007650314564783
- Osburg, V.-S., Yoganathan, V., Bartikowski, B., Liu, H., Strack, M.: Effects of Ethical Certification and Ethical eWoM on Talent Attraction. Journal of Business Ethics, vol. 164, 535–548 (2020). doi: 10.1007/s10551-018-4018-8
- Ronda, L., Abril, C., Valor, C.: Job choice decisions: understanding the role of nonnegotiable attributes and trade-offs in effective segmentation. Management Decision, vol. 59, 1546-1561 (2020). doi: 10.1108/MD-10-2019-1472
- 23. Bhattacharya, C.B., Sen, S., Korschun, D.: Using corporate social responsibility to win the war for talent. MIT Sloan Management Review, vol. 49, 37–44 (2008)
- Greening, D.W., Turban, D.B.: Corporate Social Performance As a Competitive Advantage in Attracting a Quality Workforce. Business & Society, vol. 39, 254– 280 (2000). doi: 10.1177/000765030003900302
- 25. Spence, M.: Job Market Signaling. The Quarterly Journal of Economics, vol. 87, 355–374 (1973). doi: 10.2307/1882010
- Zerbini, F.: CSR Initiatives as Market Signals: A Review and Research Agenda. Journal of Business Ethics, vol. 146, 1–23 (2017). doi: 10.1007/s10551-015-2922-8
- Sarker, S., Chatterjee, S., Xiao, X., Elbanna, A.: The sociotechnical axis of cohesion: its historical development and its continued relevance. MIS Quarterly, vol. 43, 695–719 (2019). doi: 10.17705/1jais.00664

- Mayring, P.: Qualitative Content Analysis: Theoretical Background and Procedures. In: Bikner-Ahsbahs, A., Knipping, C., Presmeg, N. (eds.) Approaches to Qualitative Research in Mathematics Education: Examples of Methodology and Methods, pp. 365–380. Springer Netherlands, Dordrecht (2015). doi: 10.1007/978-94-017-9181-6_13
- Carlini, J., Grace, D., France, C., Lo Iacono, J.: The corporate social responsibility (CSR) employer brand process: integrative review and comprehensive model. Journal of Marketing Management, vol. 35, 182–205 (2019). doi: 10.1080/0267257X.2019.1569549
- Cable, D.M., Turban, D.B.: The Value of Organizational Reputation in the Recruitment Context: A Brand-Equity Perspective. Journal of Applied Social Psychology, vol. 33, 2244–2266 (2003). doi: 10.1111/j.1559-1816.2003.tb01883.x
- Highhouse, S., Lievens, F., Sinar, E.F.: Measuring Attraction to Organizations. Educational and Psychological Measurement, vol. 63, 986–1001 (2003). doi: 10.1177/0013164403258403