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Effects of human resources management on the manufacturing firm performance: Sustainable development approach

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References

[1] G. Beier, S. Niehoff, T. Ziems, and B. Xue, "Sustainability aspects of a digitalized industry – A comparative study from China and Germany," Int. J. Precis. Eng. Manuf. - Green Technol., vol. 4, no. 2, pp. 227–234, 2017, doi: 10.1007/s40684-017-0028-8.

[2] S. S. Kamble, A. Gunasekaran, and S. A. Gawankar, "Sustainable Industry 4.0 framework: A systematic literature review identifying the current trends and future perspectives," Process Saf. Environ. Prot., vol. 117, pp. 408–425, 2018, doi: 10.1016/j.psep.2018.05.009.

[3] P. Glavič and R. Lukman, "Review of sustainability terms and their definitions," J. Clean. Prod., vol. 15, no. 18, pp. 1875–1885, 2007, doi: 10.1016/j.jclepro.2006.12.006.

[4] A. B. Lopes de Sousa Jabbour, C. J. C. Jabbour, M. Godinho Filho, and D. Roubaud, "Industry 4.0 and the circular economy: a proposed research agenda and original roadmap for sustainable operations," Ann. Oper. Res., vol. 270, no. 1–2, pp. 273–286, 2018, doi: 10.1007/s10479-018-2772-8.

[5] N. Medić, Z. Anišić, B. Lalić, U. Marjanović, and M. Brezocnik, "Hybrid fuzzy multi-attribute decision making model for evaluation of advanced digital technologies in manufacturing: Industry 4.0 perspective," Adv. Prod. Eng. Manag., vol. 14, no. 4, pp. 483–493, 2019, doi: 10.14743/apem2019.4.343.

[6] L. K. Grafmüller, S. Hankammer, S. Hönigsberg, and H. Wache, "Developing complex, mass-customized products in SME networks: Perspectives from co-creation, solution space development, and information system design," Int. J. Ind. Eng. Manag., vol. 9, no. 4, pp. 215–227, 2018, doi: 10.24867/IJIEM-2018-4-215.

[7] S. Wang, J. Wan, D. Zhang, D. Li, and C. Zhang, "Towards smart factory for industry 4.0: A self-organized multi-agent system with big data based feedback and coordination," Comput. Networks, vol. 101, pp. 158–168, 2016, doi: 10.1016/j.comnet.2015.12.017.

[8] T. Hoffmann-Walbeck, "Smart factory: JDF and XJDF," J. Graph. Eng. Des., vol. 9, no. 1, pp. 5–9, 2018, doi: 10.24867/JGED-2018-1-005.

[9] Alasdair Gilchrist, "Industry 4.0 : The Industrial Internet of Things," Dep. Trade, Invest. Innov., p. 20, 2016, doi: 10.1007/978-1-4842-2047-4.

[10] D. Brougham and J. Haar, "Smart Technology, Artificial Intelligence, Robotics, and Algorithms (STARA): Employees' perceptions of our future workplace," J. Manag. Organ., vol. 24, no. 2, pp. 239–257, 2018, doi: 10.1017/jmo.2016.55.

[11] I. Korobaničová and N. Kováčová, "Human capital investment: Practices and measurement in Slovak enterprises," Int. J. Ind. Eng. Manag., vol. 9, no. 3, pp. 139–146, 2018, doi: 10.24867/IJIEM-2018-3-139.

[12] H. Kagermann, W. Wahlster, and J. Helbig, "Recommendations for implementing the strategic initiative INDUSTRIE 4.0," Frankfurt, Germany, 2013.

[13] D. Reid and N. Sanders, Operations Management: An Integrated Approach. Hoboken, USA: John Wiley & Sons, Inc., 2013.

[14] G. L. Tortorella and D. Fettermann, "Implementation of industry 4.0 and lean production in brazilian manufacturing companies," Int. J. Prod. Res., vol. 56, no. 8, pp. 2975–2987, 2018, doi: 10.1080/00207543.2017.1391420.

[15] A. Stork et al., "Enabling virtual assembly training in and beyond the automotive industry," in Proceedings of the 2012 18th International Conference on Virtual Systems and Multimedia, VSMM 2012: Virtual Systems in the Information Society, 2012, pp. 347–352, doi: 10.1109/VSMM.2012.6365944.

[16] N. Suzić, E. Sandrin, S. Suzić, C. Forza, A. Trentin, and Z. Anišić, "Implementation guidelines for mass customization: A researcher-oriented view," Int. J. Ind. Eng. Manag., vol. 9, no. 4, pp. 229–243, 2018, doi: 10.24867/IJIEM-2018-4-229.

[17] L. S. Dalenogare, G. B. Benitez, N. F. Ayala, and A. G. Frank, "The expected contribution of Industry 4.0 technologies for indus

trial performance," Int. J. Prod. Econ., vol. 204, no. July, pp. 383–394, 2018, doi: 10.1016/j.ijpe.2018.08.019.
[18] C. B. Frey and M. A. Osborne, "The future of employment: How susceptible are jobs to computerisation?," Technol. Forecast. Soc. Change, vol. 114, pp. 254–280, 2017, doi: 10.1016/j.techfore.2016.08.019.
[19] G. H. Brundtland, "Report of the World Commission on Environment and Development: Our Common Future," Oslo, Norway, 1987.
[20] M. Van Marrewijk, "Concepts and Definitions of CSR and Corporate Sustainability: Between Agency and Communion," J. Bus. Ethics, vol. 44, no. 2–3, pp. 95–105, 2003, doi: 10.1023/A:1023331212247.
[21] A. B. Carroll, "Corporate social responsibility: Evolution of a definitional construct," Bus. Soc., vol. 38, no. 3, pp. 268–295, 1999, doi: 10.1177/000765039903800303.
[22] M. E. Porter and M. R. Kramer, "Strategy & society: The link between competitive advantage and corporate social responsibility," Harv. Bus. Rev., vol. 84, no. 12, pp. 78–92, 2006.
[23] J. L. Campbell, "Why would corporations behave in socially responsible ways? An institutional theory of corporate social responsibility," Acad. Manag. Rev., vol. 32, no. 3, pp. 946–967, 2007, doi: 10.5465/AMR.2007.25275684.
[24] A. Benešová and J. Tupa, "Requirements for Education and Qualification of People in Industry 4.0," Procedia Manuf., vol. 11, pp. 2195–2202, 2017, doi: 10.1016/j.promfg.2017.07.366.
[25] M. Bakator, N. Petrović, S. Borić, and N. Đalić, "Impact of human resource management on business performance: A review of literature," J. Eng. Manag. Compet., vol. 9, no. 1, pp. 3–13, 2019, doi: 10.5937/jemc1901003b.
[26] I. Ma Prieto and M. Pilar Perez-Santana, "Managing innovative work behavior: the role of human resource practices," Pers. Rev., vol. 43, no. 2, pp. 184–208, 2014.
[27] A. Fazlzadeh and M. R. Khoshhal, "Strategic Human Resource Practices and Innovation Performance — The Mediating Role of Knowledge Management Capacity," SSRN Electron. J., 2012, doi: 10.2139/ssrn.1672243.
[28] B. Lalic, T. Todorovic, N. Medic, B. Bogojevic, D. Ciric, and U. Marjanovic, "The Impact of Inter-Organizational Cooperation on R&D Expenditure of Manufacturing Companies," Procedia Manuf., vol. 39, pp. 1401–1406, 2019, doi: 10.1016/j.promfg.2020.01.315.
[29] B. Lalic, N. Medic, M. Delic, N. Tasic, and U. Marjanovic, "Open innovation in developing regions: An empirical analysis across manufacturing companies," Int. J. Ind. Eng. Manag., vol. 8, no. 3, pp. 111–120, 2017.
[30] U. Marjanovic, B. Lalic, N. Medic, J. Prester, and I. Palcic, "Servitization in manufacturing: role of antecedents and firm characteristics," Int. J. Ind. Eng. Manag., no. 2, pp. 133–144, Jun. 2020, doi: 10.24867/IJIEM-2020-2-259.
[31] N. Medic, U. Marjanovic, N. Zivlak, Z. Anisic, and B. Lalic, "Hybrid Fuzzy MCDM Method for Selection of Organizational Innovations in Manufacturing Companies," in TEMS-ISIE 2018 - 1st Annual International Symposium on Innovation and Entrepreneurship of the IEEE Technology and Engineering Management Society, 2018, doi: 10.1109/TEMS-ISIE.2018.8478445.
[32] B. Lalic, S. Rakic, and U. Marjanovic, "Use of industry 4.0 and organisational innovation concepts in the Serbian textile and apparel industry," Fibres Text. East. Eur., vol. 27, no. 3, pp. 10–18, 2019, doi: 10.5604/01.3001.0013.0737.
[33] B. Lalic, Z. Anisic, N. Medic, N. Tasic, and U. Marjanovic, "The impact of organizational innovation concepts on new products and related services," in International Conference on Production Research - ICPR, 2017, pp. 110–115.
[34] B. Lalic, U. Marjanovic, S. Rakic, M. Pavlovic, T. Todorovic, and N. Medic, "Big data analysis as a digital service: Evidence form manufacturing firms," in Lecture Notes in Mechanical Engineering, 2020, pp. 263–269, doi: 10.1007/978-3-030-46212-3_19.
[35] D. Berić, D. Stefanović, B. Lalić, and I. Ćosić, "The implementation of ERP and MES Systems as a support to industrial management systems," Int. J. Ind. Eng. Manag., vol. 9, no. 2, pp. 77–86, 2018.
[36] U. Marjanovic, S. Rakic, and B. Lalic, "Digital Servitization: The Next 'Big Thing' in Manufacturing Industries," in Advances in Production Management Systems. Production Management for the Factory of the Future, 2019, pp. 510–517, doi: 10.1007/978-3-030-30000-5_63.
[37] U. Marjanovic, B. Lalic, V. Majstorovic, N. Medic, J. Prester, and P. Iztok, "How to Increase Share of Product-Related Services in Revenue? Strategy Towards Servitization," in Advances in Production Management Systems. Smart Manufacturing for Industry 4.0, 2018, vol. 536, pp. 57–64, doi: 10.1007/978-3-319-99707-0.
[38] R. Koren and I. Palčič, "The impact of technical and organisational innovation concepts on product characteristics.," Adv. Prod. Eng. Manag., vol. 10, no. 1, pp. 27–39, 2015.