

innovation and, further, in solving problems of analysis and synthesis of change based on such a measure.

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REFERENCES

- [1] A. Ustundag and E. Cevikkan, *Industry 4.0: Managing The Digital Transformation*. Springer International Publishing, 2018.
- [2] OECD, Ed., *Digitalisation and productivity: A story of complementarities*. Organisation for Economic Co-Operation and Development (OECD), 2019.
- [3] OECD, *Roadmap The digitalisation of science*. Organisation for Economic Co-Operation and Development (OECD), 2019.
- [4] OECD, Ed., *Business dynamics and digitalisation*. Organisation for Economic Cooperation and Development (OECD), 2019.
- [5] W. Kuklys, *Amartya Sen's capability approach: Theoretical insights and empirical applications*, ser. Studies in choice and welfare. Berlin: Springer, op. 2010.
- [6] S. Deneulin, M. Nebel, and N. Sagovsky, *Transforming unjust structures: The capability approach / edited by Severine Deneulin, Mathias Nebel and Nicholas Sagovsky*, ser. Library of ethics and applied philosophy v. 19. Dordrecht and London: Springer, 2006. [Online]. Available: <http://www.springer.com/gb/BLDSS>
- [7] T. Fehlmann, "Computer Science and Digitalization," *Athens Journal of Sciences*, vol. 5, no. 3, pp. 247–260, 2018.
- [8] S. Bruskin, A. N. Brezhneva, L. P. Dyakonova, O. Kitova, V. M. Savinova, T. P. Danko, and V. D. Sekerin, "Business performance management models based on the digital corporation's paradigm," *European Research Studies Journal*, vol. 20, pp. 264–274, 2017.
- [9] N. Ahmad and J. Ribarsky, "Towards a Framework for Measuring the Digital Economy," in *16th Conference of the International Association of Official Statisticians (IAOS) OECD Headquarters, Paris, France*, Paris, France, 19–21 September 2018.
- [10] A. S. Geyda and I. V. Lysenko, "Modeling of Information Operations Effects: Technological Systems Example," *Future Internet*, vol. 11, no. 3, p. 62, 2019.
- [11] A. S. Geyda, "Conceptual and Formal Models of Usage Effects of Information Operations in Technological Systems," in *Proceeding Of The 24TH FRUCT Conference*, Balandin S., Ed., Bologna, Italy, 2019, pp. 599–607. [Online]. Available: <https://dl.acm.org/citation.cfm?id=3338374>
- [12] G. Vial, "Understanding digital transformation: A review and a research agenda," *The Journal of Strategic Information Systems*, vol. 28, pp. 118–144, 2019.
- [13] G. Y. Tanaka, *Digital Deflation: The Productivity Revolution and How it Will Ignite the Economy*. McGraw Hill Book CO, 2007.
- [14] A. S. Geyda and I. V. Lysenko, "Information technology efficiency models for agile system's functioning," in *Conference of Open Innovation Association FRUCT*, 2018, vol. 22, pp. 313–319.
- [15] F. Comim, M. Qizilbash, and S. Alkire, *The capability approach: Concepts, measures and applications*. Cambridge and New York: Cambridge University Press, dr. 2014.
- [16] O. Sharavova and T. Kuzovkova, "Transformation of criteria and indicators of digital development of economy and information society," in *Balandin (Ed.) – Conference of Open Innovation FRUCT 24*, 2019.
- [17] A. S. Geyda, "Conceptual and Formal Models of Information Technologies Use for Decisions Support in Technological Systems," in *Intelligent Distributed Computing XIII*, ser. Studies in Computational Intelligence Series, I. Kottenko, C. Badica, V. Desnitsky, D. E. Baz, and M. Ivanovic, Eds., vol. 868. Springer International Publishing AG, 2019, pp. 423–429.
- [18] A. S. Geyda, "Models and methods to estimate digitalization success predictively," in *Workshop on computer science and information technologies*, N. Yousoupova, Ed. Atlantis Press, 2019, vol. 2019.
- [19] A. Geyda, "Predictive models of digitalization effects and indicators: Technological system example," in *IDIMT-2019 Innovation and Transformation in a Digital World 27th Interdisciplinary Information Management Talks*, P. Doucek, Ed. Viena, Austria: Trauner Verlag, 2019, pp. 377–384.
- [20] A. Geyda, "Dynamic capabilities indicators estimation of information technology usage in technological systems," in *Recent Research in Control Engineering and Decision Making*, ser. Studies in Systems, Decision and Control, vol. 199. Cham: Springer International Publishing, 2019, pp. 379–395.
- [21] A. S. Geyda, "Models and Methods of Optimal Information Operations Use for System Functioning," in *Proceedings of the 7th Scientific Conference on Information Technologies for Intelligent Decision Making Support (ITIDS 2019)*. Paris, France: Atlantis Press, 2019.
- [22] K. S. R. Warner and M. Wager, "Building dynamic capabilities for digital transformation: An ongoing process of strategic renewal," *Long Range Planning*, vol. 52, pp. 326–349, 2019.
- [23] J. Reis, M. Amorim, N. Melao, and P. Matos, "Digital Transformation: A Literature Review and Guidelines for Future Research," in *Advances in Intelligent Systems and Computing*. Springer International Publishing, 2018, pp. 411–421.
- [24] V. Parida, D. Sjodin, and W. Reim, "Reviewing Literature on Digitalization, Business Model Innovation, and Sustainable Industry: Past Achievements and Future Promises," *Sustainability*, vol. 11, no. 2, p. 391, 2019.
- [25] P. A. Neil Perkin, *Building the Agile Business through Digital Transformation*. Kogan Page, 2017.
- [26] G. Di Stefano, M. Peteraf, and G. Verona, "Dynamic capabilities deconstructed : a bibliographic investigation into the origins, development, and future directions of the research domain," *Long Range Planning*, vol. 19, no. 4, pp. 1187–1204, 2010.
- [27] M. Tripsas and G. Gavetti, "Capabilities, cognition, and inertia: evidence from digital imaging," *Strategic Management Journal*, vol. 21, pp. 1147–1161, 2000.
- [28] J. Sandberg, L. Rouleau, A. Langley, and H. Tsoukas, *Skillful Performance: Enacting Capabilities, Knowledge, Competence, and Expertise in Organizations*. Oxford University Press, 2017, vol. 1.
- [29] S. Jong and L. Melissen, Eds., *Public diplomacy and soft power in east asia*. Palgrave Macmillan, 2016.
- [30] J. K. Marc Kerremans, "Create a digital twin of your organization to optimize your digital business transformation program," 2017.
- [31] G. F. Treverton and S. G. Jones, *Measuring national power*, ser. Conference proceedings (Rand Corporation). Santa Monica, Calif.: RAND, 2005.
- [32] A. Karna, A. Richter, and E. Riesenkampff, "Revisiting the role of the environment in the capabilities-financial performance relationship: A meta-analysis," *Strategic Management Journal*, vol. 37, no. 6, pp. 1154–1173, 2016.
- [33] G. Frege, *The foundations of arithmetic: A logico-mathematical enquiry into the concept of number*, 2nd ed. Evanston Ill.: Northwestern University Press, 1980.
- [34] C. Ogden and I. Richards, *The meaning of meaning: a study of the influence of language upon thought and of the science of symbolism*, ser. International library of psychology, philosophy and scientific method. Harcourt Brace Jovanovich, 1989. [Online]. Available: <https://books.google.ru/books?id=n8EkP2uqrDsC>
- [35] D. Golenko-Ginzburg and A. Gonik, "Project Planning and Control by Stochastic Network Models," in *Managing and Modelling Complex Projects*, T. M. Williams, Ed. Dordrecht: Springer Netherlands, 1997, pp. 21–45.