

Complexities for the Indian Economy of China's Growing Technological Competence

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Abstract

This volume brings together the opinions of engineers, economists, and policymakers. It contains chapters on approaches to assessing technological leadership in the China And the United states, an assessment of the future consequences of eroding Indian technological preeminence, an examination of the evolving landscape of innovation international market, and a discussion of Indian policy options.



References

1. K. Xue, K. Yu, H. Zhang, X. Liang, Research on health promotion strategies of public recreation space in the coastal area of Qingdao City Center, China. *Sustain. Energy Technol. Assessments.* **52**, 102144 (2022).
2. M. Bilal, M. K. Ali, U. Qazi, S. Hussain, M. Jahanzaib, A. Wasim, A multifaceted evaluation of hybrid energy policies: The case of sustainable alternatives in special Economic Zones of the China Pakistan Economic Corridor (CPEC). *Sustain. Energy Technol. Assessments.* **52**, 101958 (2022).
3. J. Wang, Q. Li, X. Ma, H. Lu, Distribution parameter-determining method comparison for airborne wind energy potential assessment in the eastern coastal area of China. *Sustain. Energy Technol. Assessments.* **52**, 102161 (2022).
4. Z. Yuan, M. Zhao, M. Du, Price discount of green residential building in China's second-hand housing market: Evidence from Shenzhen. *Sustain. Energy Technol. Assessments.* **52**, 102171 (2022).
5. J. R. Ortt, L. M. Kamp, A technological innovation system framework to formulate niche introduction strategies for companies prior to large-scale diffusion. *Technol. Forecast. Soc. Change.* **180**, 121671 (2022).
6. Y. Wang, B. Wang, Y. Yan, Does network externality affect your project? Evidences from reward-based technology crowdfunding. *Technol. Forecast. Soc. Change.* **180**, 121667 (2022).
7. N. Gupta, H. Park, R. Phaal, The portfolio planning, implementing, and governing process: An inductive approach. *Technol. Forecast. Soc. Change.* **180**, 121652 (2022).



8. S. Ghazy, Y. H. Tang, K. L. Mugumya, J. Y. Wong, A. Chan, Future-proofing Klang Valley's veins with REBET: A framework for directing transportation technologies towards infrastructure resilience. *Technol. Forecast. Soc. Change.* **180**, 121666 (2022).
9. J. Balakrishnan, S. S. Abed, P. Jones, The role of meta-UTAUT factors, perceived anthropomorphism, perceived intelligence, and social self-efficacy in chatbot-based services? *Technol. Forecast. Soc. Change.* **180**, 121692 (2022).
10. S. Lu, X. Bai, J. Zhang, J. Li, W. Li, J. Lin, Impact of virtual water export on water resource security associated with the energy and food bases in Northeast China. *Technol. Forecast. Soc. Change.* **180**, 121635 (2022).
11. A. Riandita, To collaborate and innovate for sustainability: Food retailers and their external partners. *Technol. Forecast. Soc. Change.* **180**, 121681 (2022).
12. L. A. Xavier, Identification of Age Voiceprint Using Machine Learning Algorithms. *RRST.* **1**, 1–16 (2019).
13. R. Ashraf, M. A. Khan, R. A. Khuhro, Z. A. Bhatti, Knowledge creation dynamics of technological forecasting and social change special issues. *Technol. Forecast. Soc. Change.* **180**, 121663 (2022).
14. J. Bonnin Roca, Teaching technological forecasting to undergraduate students: a reflection on challenges and opportunities. *Technol. Forecast. Soc. Change.* **180**, 121684 (2022).
15. R. Toorajipour, P. Oghazi, V. Sohrabpour, P. C. Patel, R. Mostaghel, Block by block: A blockchain-based peer-to-peer business transaction for international trade. *Technol. Forecast. Soc. Change.* **180**, 121714 (2022).
16. X. Cheng, Y. Hu, L. Varga, 5G network deployment and the associated energy consumption in the UK: A complex systems' exploration. *Technol. Forecast. Soc. Change.* **180**, 121672 (2022).
17. W. Leal Filho, T. Wall, S. A. Rui Mucova, G. J. Nagy, A.-L. Balogun, J. M. Luetz, A. W. Ng, M. Kovaleva, F. M. Safiul Azam, F. Alves, Z. Guevara, N. R. Matandirotya, A. Skouloudis, A. Tzachor, K. Malakar, O. Gandhi, Deploying artificial intelligence for climate change adaptation. *Technol. Forecast. Soc. Change.* **180**, 121662 (2022).
18. M. J. Janssen, M. Abbasiharofteh, Boundary spanning R&D collaboration: Key enabling technologies and missions as alleviators of proximity effects? *Technol. Forecast. Soc. Change.* **180**, 121689 (2022).
19. S. Chen, H. Zhang, S. Wang, Trade openness, economic growth, and energy intensity in China. *Technol. Forecast. Soc. Change.* **179**, 121608 (2022).
20. L. Zheng, P. Ma, J. F. L. Hong, Internal embeddedness of business group affiliates and innovation performance: Evidence from China. *Technovation.* **116**, 102494 (2022).



21. M. A. Hussain, Universiti Putra Malaysia, Faculty of Design and Architecture, Serdang, Malaysia, M. Y. Mohd Yunos, N. A. Ismail, N. F. Mohd Ariffin, S. Ismail, Z. Qianda, Universiti Pendidikan Sultan Idris, Faculty of Technical and Vocational, Tanjung Malim, Malaysia, Universiti Putra Malaysia, Faculty of Design and Architecture, Serdang, Malaysia, Universiti Putra Malaysia, Faculty of Design and Architecture, Serdang, Malaysia, Universiti Putra Malaysia, Faculty of Design and Architecture, Serdang, Malaysia, Linyi University, Faculty of Agriculture and Forestry, Linyi, Shandong, China, Investigating the challenges faced in designing cultural landscape at Pantai Lido urban waterfront, Johor Bahru, Malaysia. *GeoJ. Tour. Geosites.* **41**, 376–386 (2022).
22. H. Jiash, C. Li, Spatiotemporal analysis of China's agricultural bulk coal governance. *Sustain. Energy Technol. Assessments.* **51**, 101945 (2022).
23. A. T. Atieh, The Next Generation Cloud technologies: A Review On Distributed Cloud, Fog And Edge Computing and Their Opportunities and Challenges. *ResearchBerg Review of Science and Technology* (2021) (available at <https://researchberg.com/index.php/rrst/article/view/18>).
24. G. Soni, S. Kumar, R. V. Mahto, S. K. Mangla, M. L. Mittal, W. M. Lim, A decision-making framework for Industry 4.0 technology implementation: The case of FinTech and sustainable supply chain finance for SMEs. *Technol. Forecast. Soc. Change.* **180**, 121686 (2022).
25. A. Arslan, P. Ahokangas, L. Haapanen, I. Golgeci, S. Y. Tarba, O. Bazel-Shoham, Generational differences in organizational leaders: an interpretive phenomenological analysis of work meaningfulness in the Nordic high-tech organizations. *Technol. Forecast. Soc. Change.* **180**, 121717 (2022).
26. K. Blind, C. Niebel, 5G roll-out failures addressed by innovation policies in the EU. *Technol. Forecast. Soc. Change.* **180**, 121673 (2022).
27. W. Jiang, C. Zhang, C. Si, The real effect of mandatory CSR disclosure: Evidence of corporate tax avoidance. *Technol. Forecast. Soc. Change.* **179**, 121646 (2022).
28. A. Krawinkler, R. J. Breitenecker, D. Maresch, Heuristic decision-making in the green energy context:Bringing together simple rules and data-driven mathematical optimization. *Technol. Forecast. Soc. Change.* **180**, 121695 (2022).
29. M. A. M. Abdelmaged, Investigating the Impact of Omni-Health Integration on Waiting Time in Healthcare Centers. *ResearchBerg Review of Science and* (2021) (available at <https://researchberg.com/index.php/rrst/article/view/20>).
30. A. Al-Said Ahmad, P. Andras, Scalability resilience framework using application-level fault injection for cloud-based software services. *J. Cloud Comput. Adv. Syst. Appl.* **11** (2022), doi:10.1186/s13677-021-00277-z.
31. T. Zheng, J. Wan, J. Zhang, C. Jiang, Deep reinforcement learning-based workload scheduling for edge computing. *J. Cloud Comput. Adv. Syst. Appl.* **11** (2022), doi:10.1186/s13677-021-00276-0.



32. M. R. M. Hasan, N. H. S. Alani, A comparative analysis using silhouette extraction methods for dynamic objects in monocular vision. *Cloud Computing and Data Science*, 1–12 (2022).
33. K. Zunnurhain, S. V. Vrbsky, R. Hasan, FAPA: flooding attack protection architecture in a cloud system. *Int. J. Cloud Comput.* **3**, 379 (2014).
34. M. A. Islam, H. Mahmud, S. Ren, X. Wang, A carbon-aware incentive mechanism for greening colocation data centers. *IEEE trans. cloud comput.* **8**, 4–16 (2020).
35. K. C. Houng, B. Shanmugam, G. N. Samy, S. H. Albakri, A. Ahmad, Security model for Microsoft based mobile sales management application in private cloud computing. *Int. J. Cloud Comput. Serv. Sci. (IJ-CLOSER)*. **2** (2013), doi:10.11591/closer.v2i3.2741.
36. S. Vinoth, H. L. Vemula, B. Haralayya, P. Mamgain, M. F. Hasan, M. Naved, Application of cloud computing in banking and e-commerce and related security threats. *Mater. Today*. **51**, 2172–2175 (2022).
37. S. I. Jasim, M. M. Akawee, R. A. Hasan, A spectrum sensing approaches in cognitive radio network by using cloud computing environment. *Bull. Electr. Eng. Inform.* **11**, 750–757 (2022).
38. W. Hasan, Virtual machine migration in cloud computing. *Orient. j. comput. sci. technol.* **14**, 46–51 (2022).
39. A. J. Ouda, A. N. Yousif, A. S. Hasan, H. M. Ibrahim, M. A. Shyaa, The impact of cloud computing on network security and the risk for organization behaviors. *Webology*. **19**, 195–206 (2022).
40. M. Y. Shaheen, AI in Healthcare: medical and socio-economic benefits and challenges (2021), , doi:10.31219/osf.io/um38t.
41. X. Xi, W. Zhang, Y. Zhu, J. Zhang, J. Yuan, Wind integration cost in China: A production simulation approach and case study. *Sustain. Energy Technol. Assessments*. **51**, 101985 (2022).
42. D. Wang, Q. Pan, J. Hu, C. Zhao, Nonlinear model predictive control for trajectory tracking of quadrotors using Lyapunov techniques. *Sci. China Inf. Sci.* **65** (2022), doi:10.1007/s11432-020-3053-y.
43. X. H. Chen, K. Tee, V. Chang, Accelerating innovation efficiency through agile leadership: The CEO network effects in China. *Technol. Forecast. Soc. Change*. **179**, 121602 (2022).
44. V. Garcia, Do Online Marketplaces Play a Significant Role in Shaping Entrepreneurial Intention? An Empirical Investigation. *Empirical Quests for Management Essences* (2021) (available at <https://researchberg.com/index.php/eqme/article/view/27>).
45. A. A. Zoltners, P. Sinha, D. Sahay, A. Shastri, S. E. Lorimer, Practical insights for sales force digitalization success. *J. Pers. Selling Sales Manage.* **41**, 87–102 (2021).
46. M. Cisi, F. Sansalvadore, Formalized business networks in SMEs and structural relations for their governance. *J. Small Bus. Entrep.* **34**, 295–312 (2022).



47. J. A. Clampit, M. P. Lorenz, J. E. Gamble, J. Lee, Performance stability among small and medium-sized enterprises during COVID-19: A test of the efficacy of dynamic capabilities. *Int. Small Bus. J.* **40**, 403–419 (2022).
48. T. C. Chew, Y. K. Tang, T. Buck, The interactive effect of cultural values and government regulations on firms' entrepreneurial orientation. *J. small bus. enterp. dev.* **29**, 221–240 (2022).
49. J. M. Kansheba, A. E. Wald, Entrepreneurial ecosystems quality and productive entrepreneurship: entrepreneurial attitude as a mediator in early-stage and high-growth activities. *J. small bus. enterp. dev.* **29**, 311–329 (2022).
50. S. Shahid, Y. M. Kundu, Feel dragged out: a recovery perspective in the relationship between emotional exhaustion and entrepreneurial exit. *J. small bus. enterp. dev.* **29**, 203–220 (2022).
51. M. Vesci, A. Botti, R. Feola, E. Conti, A. El Tarabishy, Bridging theory and practice in the humane entrepreneurship domain: insights from small and medium Italian enterprises. *J. small bus. enterp. dev.* (2022), doi:10.1108/jsbed-11-2021-0465.
52. J. M. R. Salazar, A Comparison of The Effectiveness of Various Social Media Platforms in Promoting Restaurants. *EQME* **2**, 1–14 (2018).
53. C. Raddats, P. Naik, A. Ziaeef Bigdeli, Creating value in servitization through digital service innovations. *Ind. Mark. Manag.* **104**, 1–13 (2022).
54. J. Jovanovic, D. Morschett, Under which conditions do manufacturing companies choose FDI for service provision in foreign markets? An investigation using fsQCA. *Ind. Mark. Manag.* **104**, 38–50 (2022).
55. X. Barriola, The effect of competition on product removal. *Mark. Lett.* **33**, 203–214 (2022).
56. H. Evanschitzky, V. Stan, L. Nagengast, Strengthening the satisfaction loyalty link: the role of relational switching costs. *Mark. Lett.* **33**, 293–310 (2022).
57. M. W. Liu, Q. Zhu, X. Wang, Building consumer connection with new brands through rituals: the role of mindfulness. *Mark. Lett.* **33**, 237–250 (2022).
58. L. Peng, G. Cui, Z. Bao, S. Liu, Speaking the same language: the power of words in crowdfunding success and failure. *Mark. Lett.* **33**, 311–323 (2022).
59. M. Darvishmotevali, L. Altinay, Toward pro-environmental performance in the hospitality industry: empirical evidence on the mediating and interaction analysis. *J. hosp. mark. manag.* **31**, 431–457 (2022).
60. S. R. Nikhashemi, E. Delgado-Ballester, Branding antecedents of consumer need for uniqueness: a behavioural approach to globalness vs. localness. *J. Mark. Commun.* **28**, 392–427 (2022).



61. J. M. R. Salazar, Inverted u-shaped impact of social media posting frequency on engagement and sentiment ratio. *Empirical Quests for Management Essences* (2017) (available at <https://researchberg.com/index.php/eqme/article/view/31>).
62. B. Aminof, A. Murano, S. Rubin, F. Zuleger, Verification of agent navigation in partially-known environments. *Artif. Intell.* **308**, 103724 (2022).
63. M. Y. Anshori, T. Shawyun, D. V. Madrigal, D. Rahmalia, F. A. Susanto, T. Herlambang, D. Adzkiya, Estimation of closed hotels and restaurants in Jakarta as impact of corona virus disease spread using adaptive neuro fuzzy inference system. *IAES Int. J. Artif. Intell. (IJ-AI)*. **11**, 462 (2022).
64. H. AL-Khzraji, A. Nasser, S. Khilil, An intelligent demand forecasting model using a hybrid of metaheuristic optimization and deep learning algorithm for predicting concrete block production. *IAES Int. J. Artif. Intell. (IJ-AI)*. **11**, 649 (2022).
65. D. O. D. Handayani, M. Lubis, A. Ridho Lubis, Prediction analysis of the happiness ranking of countries based on macro level factors. *IAES Int. J. Artif. Intell. (IJ-AI)*. **11**, 666 (2022).
66. I. Indrabayu, I. S. Areni, A. Bustamin, R. Irianty, A real-time data association of internet of things based for expert weather station system. *IAES Int. J. Artif. Intell. (IJ-AI)*. **11**, 432 (2022).
67. M. M. Alhaddad, Artificial Intelligence in Banking Industry: A Review on Fraud Detection, Credit Management, and Document Processing. *RRST*. **2**, 25–46 (2018).
68. A. Yahyaouy, A. Sabri, F. Benjelloun, I. El Manaa, A. Aarab, Autonomous approach for moving object detection and classification in road applications. *Int. j. comput. aided eng. technol.* **1**, 1 (2023).
69. L. En Bing, M. Likitha, L. Neeraz, S. Vasavi, Performance evaluation for classifying type 2 diabetic retinopathy using deep neural network. *Int. j. comput. aided eng. technol.* **1**, 1 (2023).
70. N. Tarafdar, G. Di Guglielmo, P. C. Harris, J. D. Krupa, V. Loncar, D. S. Rankin, N. Tran, Z. Wu, Q. Shen, P. Chow, Algean : An open framework for deploying machine learning on heterogeneous clusters. *ACM Trans. Reconfigurable Technol. Syst.* **15**, 1–32 (2022).
71. S. R. Faraji, P. Abillama, K. Bazargan, Approximate constant-coefficient multiplication using hybrid binary-unary computing for FPGAs. *ACM Trans. Reconfigurable Technol. Syst.* **15**, 1–25 (2022).
72. S. Zeng, G. Dai, H. Sun, J. Liu, S. Li, G. Ge, K. Zhong, K. Guo, Y. Wang, H. Yang, A unified FPGA virtualization framework for general-purpose deep neural networks in the cloud. *ACM Trans. Reconfigurable Technol. Syst.* **15**, 1–31 (2022).
73. S. Al-Gharbi, A. Al-Majed, A. Abdulraheem, Z. Tariq, M. Mahmoud, Statistical methods to improve the quality of real-time drilling data. *J. Energy Resour. Technol.* **144**, 1–22 (2022).
74. I. R. S. Victorino, J. C. V. Hohendorff Filho, M. S. Castro, D. J. Schiozer, Impact of integration of the production systems and reservoir of a benchmark based on carbonate fields. *J. Energy Resour. Technol.* **144** (2022), doi:10.1115/1.4053435.



75. M. M. Alhaddad, The Impact of Cloud Adoption on The SMB Profit: Evidence from Panel Data analysis. *EQME*. **1**, 51–64 (2021).
76. C. Bobda, J. M. Mbongue, P. Chow, M. Ewais, N. Tarafdar, J. C. Vega, K. Eguro, D. Koch, S. Handagala, M. Leeser, M. Herboldt, H. Shahzad, P. Hofste, B. Ringlein, J. Szefer, A. Sanaullah, R. Tessier, The future of FPGA acceleration in datacenters and the cloud. *ACM Trans. Reconfigurable Technol. Syst.* **15**, 1–42 (2022).
77. M. Ali Ahmed Wageeh, Improving the structural specifications of the fabrics used in the production of Breast-feeding pads. *International Journal of Multidisciplinary Studies in Art and Technology*. **5**, 1–17 (2022).
78. M. Ahmed, A. Nawaz, M. Ahmed, A. Khan, I.-U. Haque, M. J. Ahmed, Blockchain based Renewable Energy P2P trading in Smart Grid (2022), , doi:10.22541/au.164925577.73460931/v1.
79. W. A.H. Ahmed, in *Handbook on Digital Business Ecosystems* (Edward Elgar Publishing, 2022; <http://dx.doi.org/10.4337/9781839107191.00032>), pp. 367–386.
80. M. Faisal, H. Sadia, T. Ahmed, N. Javed, in *Pervasive Healthcare* (Springer International Publishing, Cham, 2022; http://dx.doi.org/10.1007/978-3-030-77746-3_17), pp. 255–286.
81. S. Hussain Danwar, J. Ahmed Mahar, A. Kiran, A framework for e-voting system based on blockchain and distributed ledger technologies. *Comput. mater. contin.* **72**, 417–440 (2022).
82. P. Saini, U. Iqbal, M. Ahmed, D. Kaur, in *Advances in Electronic Government, Digital Divide, and Regional Development* (IGI Global, 2022; <http://dx.doi.org/10.4018/978-1-7998-8493-4.ch006>), pp. 127–150.
83. A. Ahmed, S. Abdullah, M. Bukhsh, I. Ahmad, Z. Mushtaq, An energy-efficient data aggregation mechanism for IoT secured by blockchain. *IEEE Access*. **10**, 11404–11419 (2022).
84. I. Abunadi, M. M. Althobaiti, F. N. Al-Wesabi, A. Mustafa Hilal, M. Medani, M. Ahmed Hamza, M. Rizwanullah, A. Serwar Zamani, Federated learning with blockchain assisted image classification for clustered UAV networks. *Comput. mater. contin.* **72**, 1195–1212 (2022).
85. S. Shamsi, M. M. Haque, S. Kumar, J. Ahmed, M. S. Badar, in *Advances in Computing Communications and Informatics* (BENTHAM SCIENCE PUBLISHERS, 2021; <http://dx.doi.org/10.2174/9781681088624121010007>), pp. 85–107.
86. M. M. Alhaddad, Implementing Blockchain in Public Sectors in MENA Countries: Opportunities and Challenges. *EQME*. **2**, 30–45 (2018).
87. J. Sukhera, H. Ahmed, Leveraging machine learning to understand how emotions influence equity related education: Quasi-experimental study. *JMIR Med. Educ.* **8**, e33934 (2022).
88. H. Maher Ahmed, M. Younis Kashmola, A proposed architecture for convolutional neural networks to detect skin cancers. *IAES Int. J. Artif. Intell. (IJ-AI)*. **11**, 485 (2022).



89. A. Santaolalla, T. Hulsen, J. Davis, H. U. Ahmed, C. M. Moore, S. Punwani, G. Attard, N. McCartan, M. Emberton, A. Coolen, M. Van Hemelrijck, The ReIMAGINE Multimodal Warehouse: Using artificial intelligence for accurate risk stratification of prostate cancer. *Front Artif Intell.* **4**, 769582 (2021).
90. M. Ahmed, R. E. Mercer, Modelling sentence pairs via reinforcement learning: An actor-critic approach to learn the irrelevant words. *Proc. Conf. AAAI Artif. Intell.* **34**, 7358–7366 (2020).
91. A. Ahmed F, T. Mohamed A, Solving integer programming problems by hybrid bat algorithm and direct search method. *Trends Artif Intell.* **2** (2018), doi:10.36959/643/303.
92. R. O. Morsi, M. F. Ahmed, A two-phase pattern matching-parse tree validation approach for efficient SQL injection attacks detection. *J. Artif. Intell.* **12**, 11–17 (2019).
93. M. Fatihu Hamza, H. Jen Yap, I. Ahmed Choudhury, Cuckoo search algorithm based design of interval Type-2 Fuzzy PID Controller for Furuta pendulum system. *Eng. Appl. Artif. Intell.* **62**, 134–151 (2017).
94. H. F. Thariq Ahmed, H. Ahmad, Aravind, Device free human gesture recognition using Wi-Fi CSI: A survey. *Eng. Appl. Artif. Intell.* **87**, 103281 (2020).
95. M. H. Olson, Remote office work: changing work patterns in space and time. *Commun. ACM.* **26**, 182–187 (1983).
96. M. M. Alhaddad, The Impacts of EdTech Collaboration, IoT-Connected Classroom and Intelligent Grading System on Educational Performance. *ACST.* **2**, 44–67 (2017).
97. S. Akther, M. Rezaul Karim, M. Samiullah, C. F. Ahmed, Mining non-redundant closed flexible periodic patterns. *Eng. Appl. Artif. Intell.* **69**, 1–23 (2018).
98. K. Z. Zamli, F. Din, S. Baharom, B. S. Ahmed, Fuzzy adaptive teaching learning-based optimization strategy for the problem of generating mixed strength t-way test suites. *Eng. Appl. Artif. Intell.* **59**, 35–50 (2017).
99. I. Hussain, A. Ahmad, M. Y. Qadri, N. N. Qadri, J. Ahmed, Ant Colony Optimization for multicore reconfigurable architecture. *AI Commun.* **29**, 595–606 (2016).
100. A. Fariha, C. F. Ahmed, C. K. Leung, M. Samiullah, S. Pervin, L. Cao, A new framework for mining frequent interaction patterns from meeting databases. *Eng. Appl. Artif. Intell.* **45**, 103–118 (2015).
101. M. U. Ahmed, H. Banaee, A. Loutfi, Health monitoring for elderly: An application using case-based reasoning and cluster analysis. *ISRN Artif. Intell.* **2013**, 1–11 (2013).
102. M. A. Khamis, W. Gomaa, W. F. Ahmed, Machine learning in computational docking. *Artif. Intell. Med.* **63**, 135–152 (2015).
103. D. Ou, Z. Zhao, Higher education expansion in China, 1999–2003: Impact on graduate employability. *China World Econ.* **30**, 117–141 (2022).



104. K. Zhou, S. Kumar, F. Lu, Q. Fang, L. Yu, Has the belt and road initiative improved the quality of food imported by Chinese enterprises? *China World Econ.* **30**, 60–83 (2022).
105. T. Sicular, X. Yang, B. Gustafsson, The rise of china's global middle class in an international context. *China World Econ.* **30**, 5–27 (2022).
106. L. Zhang, B. Qiu, X. Xu, S. Sun, Offshoring, wages, and skill premiums: Firm-level evidence from China. *China World Econ.* **29**, 1–27 (2021).
107. S. Al-Gharbi, A. Al-Majed, S. Elkhatatny, A. Abdulraheem, Evaluating the effectiveness of machine learning technologies in improving real-time drilling data quality. *J. Energy Resour. Technol.* **144**, 1–14 (2022).
108. M. M. Alhaddad, Improving Security Performance in Smart Campuses. *RRST*. **1**, 17–28 (2019).
109. National Institute of Standards and Technology, Return on investment initiative for unleashing American innovation (2018), , doi:10.6028/nist.sp.1234-draft.
110. X. L. An, J. J. Liang, J. G. Li, J. W. Chen, Y. Z. Zhou, X. F. Sun, Sample selection for models to represent ceramic cores fabricated by stereolithography three-dimensional printing. *J. Mater. Sci. Technol.* **121**, 117–123 (2022).
111. S. Solaiyappan, Y. Wen, Machine learning based medical image deepfake detection: A comparative study. *Machine Learning with Applications*. **8**, 100298 (2022).
112. M. Mark, N. Chehrazi, H. Liu, T. A. Weber, Optimal recovery of unsecured debt via interpretable reinforcement learning. *Machine Learning with Applications*. **8**, 100280 (2022).
113. X. Yang, N. Zhang, P. Schrader, A study of brain networks for autism spectrum disorder classification using resting-state functional connectivity. *Machine Learning with Applications*. **8**, 100290 (2022).
114. M. Z. Naser, Deriving mapping functions to tie anthropometric measurements to body mass index via interpretable machine learning. *Machine Learning with Applications*. **8**, 100259 (2022).
115. F. Yang, J. Han, B. Li, Deconfounded classification by an intervention approach. *Int. j. mach. learn. cybern.* **13**, 1763–1779 (2022).
116. D. Mo, W. K. Wong, X. Liu, Y. Ge, Concentrated hashing with neighborhood embedding for image retrieval and classification. *Int. j. mach. learn. cybern.* **13**, 1571–1587 (2022).
117. M. E. Lokanan, K. Sharma, Fraud prediction using machine learning: The case of investment advisors in Canada. *Machine Learning with Applications*. **8**, 100269 (2022).
118. M. Rostami, S. Kolouri, Z. Murez, Y. Owechko, E. Eaton, K. Kim, Zero-shot image classification using coupled dictionary embedding. *Machine Learning with Applications*. **8**, 100278 (2022).
119. G. Jaya Brindha, E. S. Gopi, Masking technique based attention mechanism for off-type identification in plants. *Machine Learning with Applications*. **8**, 100282 (2022).



120. A. Vafin, Forecasting macroeconomic indicators for seven major economies using the ARIMA model. *Sage Science Economic Reviews*. **3**, 1–16 (2020).
121. W. Thorbecke, N. Salike, C. Chen, The impact of exchange rate changes on the Japanese chemical industry. *Japan World Econ.* **62**, 101135 (2022).
122. Y. M. Alkhulaifi, J. H. Alsadah, E. M. A. Mokheimer, Performance analysis of a novel cascade vapor compression system for small-scale desalination and cooling. *J. Energy Resour. Technol.* **144**, 1–40 (2022).
123. M.-H. Chang, Y.-C. Wu, Speed control of electric vehicle by using type-2 fuzzy neural network. *Int. j. mach. learn. cybern.* **13**, 1647–1660 (2022).
124. T. Wang, B. Sun, C. Jiang, H. Weng, X. Chu, Kernel alignment-based three-way clustering on attribute space and its application in stroke risk identification. *Int. j. mach. learn. cybern.* **13**, 1697–1711 (2022).
125. F. Kayo, Blockchain applied to network science: Toward implementing multilevel. *Blockchain healthc. today* (2022), doi:10.30953/tmt.v7.224.
126. Black Sigatoka Classification Using Convolutional Neural Networks. *Int. J. Mach. Learn. Comput.* **12** (2022), doi:10.18178/ijmlc.2022.12.4.1089.
127. K. Halid, PharmaLedger: Blockchain-Enabled Healthcare: Privacy-Enhancement with Blockchain. *Blockchain healthc. today* (2022), doi:10.30953/tmt.v7.226.
128. T. Brian, Blockchain is a Team Sport. *Blockchain healthc. today* (2022), doi:10.30953/tmt.v7.208.
129. K. Anjum, Blockchain Applications Presentation Commentary. *Blockchain healthc. today* (2022), doi:10.30953/tmt.v7.229.
130. W. M. Charles, B. M. Delgado, Health datasets as assets: Blockchain-based valuation and transaction methods. *Blockchain healthc. today* (2022), doi:10.30953/bhty.v5.185.
131. A. Vafin, Strategic, Legal, Financial, and Operational Risks for Businesses During COVID-19 Pandemic. *Empirical Quests for Management Essences*. **1**, 65–85 (2021).
132. G. D. P. Carvalho, Desigualdades regionais e o papel dos recursos federais no SUS: fatores políticos condicionam a alocação de recursos? *Cien. Saude Colet.* **26**, 3409–3421 (2021).
133. G. Z. Felipe, J. N. Zanoni, C. C. Sehaber-Sierakowski, G. D. P. Bossolani, S. R. G. Souza, F. C. Flores, L. E. S. Oliveira, R. M. Pereira, Y. M. G. Costa, Automatic chronic degenerative diseases identification using enteric nervous system images. *Neural Comput. Appl.* **33**, 15373–15395 (2021).
134. A. De Marcellis, G. D. P. Stanchieri, M. Faccio, E. Palange, T. G. Constandinou, A 300 Mbps 37 pJ/bit pulsed optical biotelemetry. *IEEE Trans. Biomed. Circuits Syst.* **14**, 441–451 (2020).



135. G. D. P. da Silva, T. Hesselberg, A review of the use of black soldier fly larvae, *Hermetia illucens* (Diptera: Stratiomyidae), to compost organic waste in tropical regions. *Neotrop. Entomol.* **49**, 151–162 (2020).
136. G. D. P. Bossolani, I. Pintelon, J. D. Detrez, R. Buckinx, S. Thys, J. N. Zanoni, W. H. De Vos, J.-P. Timmermans, Comparative analysis reveals Ce3D as optimal clearing method for in toto imaging of the mouse intestine. *Neurogastroenterol. Motil.* **31**, e13560 (2019).
137. T. R. Alcântara-Silva, R. de Freitas-Junior, N. M. A. Freitas, W. de Paula Junior, D. J. da Silva, G. D. P. Machado, M. K. A. Ribeiro, J. P. Carneiro, L. R. Soares, Music therapy reduces radiotherapy-induced fatigue in patients with breast or gynecological cancer: A randomized trial. *Integr. Cancer Ther.* **17**, 628–635 (2018).
138. G. da P. Oliveira, A. T. Guillaumon, S. C. Benvindo, J. M. T. Lima, S. R. F. Barreto, W. M. Avelar, F. Cendes, A comparative analysis of transcranial Doppler parameters acquired during carotid stenting and semi-eversion carotid endarterectomy. *J. Vasc. Bras.* **15**, 197–204 (2016).
139. J. van Heijster, D. DeRock, How GDP spread to China: the experimental diffusion of macroeconomic measurement. *Rev. Int. Polit. Econ.* **29**, 65–87 (2022).
140. Z. Habibi, H. Habibi, M. A. Mohammadi, The potential impact of COVID-19 on the Chinese GDP, trade, and economy. *Economies*. **10**, 73 (2022).
141. L. Liu, X. Hu, Z. Zhao, Does horizontal-paradigm aid weaken the governance of recipient countries? Evidence from China. *China World Econ.* **30**, 1–27 (2022).
142. Y. Xia, P. Liu, Does bank competition promote corporate green innovation? Evidence from the location of bank branches. *China World Econ.* **30**, 84–116 (2022).
143. X. Wang, J. Li, G. Zhang, Mixed monetary–fiscal policies and macroeconomic fluctuations: An analysis based on the dynamic stochastic general equilibrium model. *China World Econ.* **30**, 167–196 (2022).
144. X. Shao, Y. Cao, Y. Teng, J. Chen, L. Gong, The consumption-stimulating effect of public rental housing in China. *China World Econ.* **30**, 106–135 (2022).
145. F. Sheng, J. Wang, K. Z. Chen, S. Fan, H. Gao, Changing Chinese diets to achieve a win–win solution for health and the environment. *China World Econ.* **29**, 34–52 (2021).
146. X. Shi, T. S. Cheong, J. Yu, X. Liu, Quality of life and relative household energy consumption in China. *China World Econ.* **29**, 127–147 (2021).
147. A. Vafin, Dating the Russian Business Cycle, Identifying Coherence and persistence in Its Major Macroeconomic Indicators. *Empirical Quests for Management Essences*. **3**, 1–20 (2019).
148. A. M. A. Musleh Al-Sartawi, K. Hussainey, A. Razzaque, The role of artificial intelligence in sustainable finance. *J. sustain. finance invest.*, 1–6 (2022).



149. S. Ali, H. Tang, Is intellectual property beneficial to knowledge management? Literature review on organizational knowledge protection. *J. Knowl. Econ.* (2022), doi:10.1007/s13132-022-00904-3.
150. H. Raad Jafer Merzeh, M. Kara, M. Ali Aydin, H. Hüseyin Balık, GDPR compliance IoT authentication model for smart home environment. *Intell. autom. soft comput.* **31**, 1953–1970 (2022).
151. F. Alizadeh, T. Jakobi, A. Boden, G. Stevens, J. Boldt, in *2020 IEEE European Symposium on Security and Privacy Workshops (EuroS&PW)* (IEEE, 2020; <http://dx.doi.org/10.1109/eurospw51379.2020.00025>).
152. S. S. S. Ali, M. R. Razman, A. Awang, The nexus of population, GDP growth, electricity generation, electricity consumption and carbon emissions output in Malaysia. *Int. j. energy econ. policy.* **10**, 84–89 (2020).
153. A. Alifatussaadah, A. D. Primariesty, A. M. Soleh, A. Andriansyah, in *Proceedings of the Proceedings of the 1st International Conference on Statistics and Analytics, ICSA 2019, 2-3 August 2019, Bogor, Indonesia* (EAI, 2020; <http://dx.doi.org/10.4108/eai.2-8-2019.2290478>).
154. E. Chondrogiannis, V. Andronikou, E. Karanastasis, A. Litke, T. Varvarigou, Using blockchain and semantic web technologies for the implementation of smart contracts between individuals and health insurance organizations. *Blockchain: Research and Applications.* **3**, 100049 (2022).
155. R. B. John, CORES issues on blockchain deployment in healthcare: Evidence from experts. *Blockchain healthc. today* (2022), doi:10.30953/tmt.v7.220.
156. H. Kathleen, Securing the chain of custody and integrity of data in a global. *Blockchain healthc. today* (2022), doi:10.30953/tmt.v7.230.
157. H. Rameder, M. di Angelo, G. Salzer, Review of automated vulnerability analysis of smart contracts on Ethereum. *Front. Blockchain.* **5** (2022), doi:10.3389/fbloc.2022.814977.
158. A.-M. Mustafa, Improving transitions of care: Designing a blockchain application for patient identity management. *Blockchain healthc. today* (2022), doi:10.30953/tmt.v7.221.
159. A. Vafin, The Impact of Remote Work on Firm's Profitability: Optimizing Virtual Employee Productivity and Operational Costs. *ResearchBerg Review of Science and Technology.* **1**, 50–68 (2021).
160. M. S. Abdel Wahab, Itisaluna and others v Iraq: The OIC agreement conundrum: Consent to ICSID arbitration and the MFN clauses saga. *ICSID Rev. - Foreign Invest. Law J.* **36**, 1–13 (2021).
161. I. M. A. Rashid, N. A. Bakar, N. A. A. Razak, Determinants of foreign direct investment (FDI) in agriculture sector based on selected high-income developing economies in OIC countries: An empirical study on the provincial panel data by using Stata, 2003-2012. *Procedia econ. finance.* **39**, 328–334 (2016).



162. M. Mohammed Imam, F. Abubakar, Z. Muhammad, Determination of some heavy metals from ground water samples obtained from selected motor parks in Kaduna, Nigeria. *Int. J. Econ. Energy Environ.* **6**, 81 (2021).
163. A. Hussaini Jagaba, S. Rahman Mohamed Kutty, G. Hayder Ahmed Salih, A. Noor, M. Fakhuma Ubaidillah bin Md Hafiz, N. Shehu Aliyu Yaro, A. Ameen Hezam Saeed, I. Mohammed Lawal, A. Haruna Birniwa, A. Usman Kilaco, in *Elaeis guineensis* (IntechOpen, 2022; <http://dx.doi.org/10.5772/intechopen.97312>).
164. S. M. Alrashdi, N.-E. M. Elshaiikh, Designing an IoT framework to improve student assessment performance in the Oman educational portal. *Int. j. innov. digit. econ.* **13**, 1–12 (2022).
165. J. Mohammed, M. Islam, in *Advances in Finance, Accounting, and Economics* (IGI Global, 2022; <http://dx.doi.org/10.4018/978-1-7998-8705-8.ch001>), pp. 1–13.
166. K. Hayat, Z. Jianjun, S. Ali, M. M. Ageli, Eco-advertising and ban-on-plastic: The influence of CSR green practices on green impulse behavior. *J. Knowl. Econ.* (2022), doi:10.1007/s13132-022-01014-w.
167. S. M. E. Younis, Human capital and its impact on promoting the knowledge economy “Saudi Arabia as a model”- an applied study during the period (2010-2020). *Res. World Econ.* **12**, 186 (2021).
168. W. Khan, T. P. Singh, M. Jamshed, Understanding the ease of doing agribusiness in emerging Asian economies: evidence from world enterprises survey. *J. Enterp. Communities People Places Glob. Econ. ahead-of-print* (2021), doi:10.1108/jec-03-2021-0037.
169. A.-J. A. Mohammed Ahmed, A.-Q. M. Ahmed Abdulaziz, in *2021 2nd International Conference on Big Data Economy and Information Management (BDEIM)* (IEEE, 2021; <http://dx.doi.org/10.1109/bdeim55082.2021.00074>).
170. I. Mohammed, A. Bunyaminu, Major obstacles facing business enterprises in an emerging economy: the case of Ghana using the World Bank Enterprise Survey. *J. small bus. enterp. dev. ahead-of-print* (2021), doi:10.1108/jsbed-04-2020-0110.
171. J. E. Omeje, A. I. Achike, A. M. Sule, C. J. Arene, Gender roles and economic differentials in aquaculture of Kainji Lake Basin, Nigeria. *rwae.* **2** (2021), doi:10.36956/rwae.v2i2.353.
172. A. M. Вафин, Индикативное планирование как основа стратегического развития промышленного комплекса Республики Татарстан. *Научные труды Центра перспективных* (2012) (available at <https://elibrary.ru/item.asp?id=20789721>).
173. E. Assefa, Z. Ayalew, H. Mohammed, Impact of small-scale irrigation schemes on farmers livelihood, the case of Mekdela Woreda, North-East Ethiopia. *Cogent econ. finance.* **10** (2022), doi:10.1080/23322039.2022.2041259.



174. K. M. Tarique, R. Islam, M. O. Mohammed, Developing and validating the components of Maqasid al-Shari'ah-based performance measurement model for Islamic banks. *Int. j. Islam. Middle East. finance manag.* **14**, 366–390 (2020).
175. M. Y. Broni, M. Hosen, H. N. Mohammed, G. Tiamiyu, Should banks be averse to elections? A GMM analysis of recent elections in Ghana. *J. Econ. Finance Adm. Sci.* **24**, 47–65 (2019).
176. H. Mohsin Jadah, M. Faez Hasan, N. H. Mohammed Al-Husainy, Dynamic panel data analysis of capital structure determinants: Evidence from Iraqi banks. *Journal of Business Strategy, Finance and Management.* **1 and 2**, 102–114 (2019).
177. M. Z. M. Zabri, M. O. Mohammed, Examining the behavioral intention to participate in a Cash Waqf-Financial Cooperative-Musharakah Mutanaqisah home financing model. *Manag. finance.* **44**, 809–829 (2018).
178. A. M. Yazeed, A. Mohammed, K. Hamza, Effects of selected socio-economic factors and elections spending on aggregate savings (total deposits) in Ghana. *J. Econ. Int. Fin.* **8**, 7–18 (2016).
179. J. Yan, T. Li, Y. Wang, H. Zhu, R. Liu, Z. Lei, Y. Guo, Department of Interventional Therapy, Affiliated hospital of Qinghai University, Xining, China and Department of Postgraduate, Qinghai University, Xining, China, Department of Orthopedics, Sichuan People's Hospital, Chengdu, China and Department of Postgraduate, Chengdu Medical College, Chengdu, China, Department of Radiology, Chengdu Medical College, Chengdu, China, Department of Ultrasound Medicine, People's Hospital of Tibet Autonomous Region, Lhasa, China and Department of Postgraduate, Tibet University, Lhasa, China, Nanchong Central Hospital, North Sichuan Medical College, Nanchong, China, Department of Interventional Therapy, Affiliated hospital of Qinghai University, Xining, China, Department of Interventional Therapy, Affiliated hospital of Qinghai University, Xining, China, The efficacy and safety of iodine-125 implantation combined with gemcitabine in the treatment of advanced pan-creatic cancer: A systematic review and meta-analysis. *Multidiscip. Canc. Invest.* **5**, 1–12 (2021).
180. R. Xu, Department of Obstetrics, Fujian Maternity and Child Health Hospital, Affiliated Hospital of Fujian Medical University, Fuzhou, Fujian, China., B. Wu, J. Chen, J. Yan, Department of Obstetrics, Fujian Maternity and Child Health Hospital, Affiliated Hospital of Fujian Medical University, Fuzhou, Fujian, China., Department of Obstetrics, Fujian Medical University Union Hospital, Fujian, China., Department of Obstetrics, Fujian Maternity and Child Health Hospital, Affiliated Hospital of Fujian Medical University, Fuzhou, Fujian, China., Changes in platelet and leukocyte parameters during pregnancy in women with spontaneous pre-term delivery. *Invest Clin.* **61**, 28–38 (2020).
181. J. Liu, W. Liu, X. Zeng, J. Ma, L. Wang, Union for China Lymphoma Investigat Oncology, Union for China Leukemia Investigat Oncology, Incidence and mortality of multiple myeloma in China, 2006-2016: An analysis of the global burden of disease study 2016. *SSRN Electron. J.* (2019), doi:10.2139/ssrn.3414437.
182. A. Gutiérrez Chiñas, El currículum de la profesión bibliotecaria; una aproximación. *Investig. Bibl. Arch. Bibliotecol. Inf.* **27**, 141–158 (2013).



183. R. M. Effros, F. P. Chinard, The in vivo pH of the extravascular space of the lung. *J. Clin. Invest.* **48**, 1983–1996 (1969).
184. G. M. Galeeva, M. E. Ivanov, A. Y. Vafin, The innovative development of the industrial economy of Russia. *core.ac.uk* (2016) (available at <https://core.ac.uk/download/pdf/197473691.pdf>).
185. A. E. R. Mohammed Sulaiman Rashwan, The impact of litigation risks on the reputation of auditors and audit profession (an empirical study on external audit offices in the Gaza Strip). *J. Finance & Corporate Governance*. **3**, 103–130 (2019).
186. G. O. Antwi, R. Banerjee, A. A. Mohammed, M. J. Muna-Habib, The degree of competition in the UAE banking industry. *Int. Fin. Bank.* **4**, 1 (2017).
187. J. Omercic, M. A. B. M. Haneef, M. O. Mohammed, Economic thought, foundational problems of mainstream economics and the alternative of Islamic economics. *ijief*. **3** (2020), doi:10.18196/ijief.3226.
188. M. Z. M. Zabri, D. Abdul Razak, M. O. Mohammed, An analytical framework to examine shari'ah - compliant mortgage financing by financial cooperatives in Malaysia. *J. Islam. Fin.* **4**, 18–30 (2015).
189. G. T. Mohammed, J. A. Aduda, A. O. Kube, Modeling exchange rate volatility dynamics of the great Britain pound to Ethiopian Birr using the semi-parametric non-linear fuzzy-EGARCH-ANN model. *J. Math. Fin.* **10**, 598–611 (2020).
190. А. В. Морозов, Г. М. Галеева, Е. П. Фазлыева, Совершенствование региональной экономической политики в муниципальных образованиях Республики Татарстан. *Вестник Казанского* (2012) (available at <https://cyberleninka.ru/article/n/sovershenstvovanie-regionalnoy-ekonomicheskoy-politiki-v-munitsipalnyh-obrazovaniyah-respubliki-tatarstan>).
191. M. Sadallah, H. Abdul-Jabbar, S. A. Aziz, Promoting zakat compliance among business owners in Algeria: the mediation effect of compliance intention. *J. Islam. Mark.* (2022), doi:10.1108/jima-11-2021-0366.
192. S. Kamalul Ariffin, N. Q. Ihsannuddin, A. M. Abdul Mohsin, The influence of attitude functions on Muslim consumer attitude towards social media advertising: a case of bubble tea. *J. Islam. Mark. ahead-of-print* (2021), doi:10.1108/jima-01-2021-0015.
193. H. Mohd. Al-Hattami, A. Ahmed Hashed Abdullah, A. Abdullah Ali Khamis, Determinants of intention to continue using internet banking: Indian context. *Innov. mark.* **17**, 40–52 (2021).
194. Z. L. Hamzah, H. Abdul Wahab, M. Waqas, Unveiling drivers and brand relationship implications of consumer engagement with social media brand posts. *J. Res. Interact. Mark.* **15**, 336–358 (2021).
195. N. Abdul Hadi, M. R. Muwazir, Islamic banking selection criteria: a multi-ethnic perspective. *J. Islam. Mark.* **12**, 1063–1078 (2021).



196. A. D. Abduzuhurovna, The relationship between verbal and nonverbal means of communication and their expression in different cultures. *Asian J. Res. Mark.* **10**, 21–27 (2021).
197. N. Katuk, K. R. Ku-Mahamud, K. Kayat, M. N. Abdul Hamid, N. H. Zakaria, A. Purbasari, Halal certification for tourism marketing: the attributes and attitudes of food operators in Indonesia. *J. Islam. Mark.* **12**, 1043–1062 (2021).
198. A. Kamassi, N. H. Abdul Manaf, A. Omar, The need of international Islamic standards for medical tourism providers: a Malaysian experience. *J. Islam. Mark.* **12**, 113–123 (2020).
199. М. П. Посталюк, А. М. Вафин, ИННОВАТИЗАЦИЯ УПРАВЛЕНИЯ ПРОМЫШЛЕННЫМ КОМПЛЕКСОМ В ЛОКАЛЬНЫХ ЭКОНОМИЧЕСКИХ СИСТЕМАХ. *Вестник ТИСБИ* (2014) (available at <https://elibrary.ru/item.asp?id=45816138>).
200. K. Hameed, N. Arshed, K. A. Grant, M. Munir, O. Aziz, Forces of dynamic capability and incidence of entrepreneurship: A macroeconomic policy intervention approach. *J. Knowl. Econ.* (2022), doi:10.1007/s13132-022-00905-2.
201. V. Sharma, S. M. Aziz, M. H. Haque, T. Kauschke, Energy economy of households with photovoltaic system and battery storage under time of use tariff with demand charge. *IEEE Access.* **10**, 33069–33082 (2022).
202. M. Azizuddin, A. Shamsuzzoha, S. Piya, Influence of circular economy phenomenon to fulfil global sustainable development goal: Perspective from Bangladesh. *Sustainability.* **13**, 11455 (2021).
203. A. Sodikov, Z. Rizaev, L. Chin, S. Ochilova, Impact of national competitiveness on economic growth and income level – evidence from the selected post-Soviet countries. *Res. World Econ.* **12**, 17 (2021).
204. E. Gojayeva, S. Huseynova, S. Babayeva, U. Sadigova, R. Azizova, Information platforms and the global network economy. *SHS Web Conf.* **92**, 04007 (2021).
205. K. A. Bahtiyarovna, Senior Lecturer, UNESCO's Department Of International Law And Human Rights University Of World Economy And Diplomacy, Uzbekistan, International legal cooperation between FAO and Uzbekistan. *tajpslc.* **03**, 112–119 (2021).
206. A. M. Vafin, A. V. Morozov, G. M. Galeeva, Conditions and mechanisms of investment support of innovative development of regional economy. *Bulletin of Kazan Technological University* (2012) (available at https://scholar.google.ca/scholar?cluster=10816658587039665617&hl=en&as_sdt=0,5&sciodt=0,5).
207. T. Orlik, *Getting to grips with chinas GDP data* (FT Press, 2011).
208. J. Cao, M. Ho, G. R. Timilsina, *Impacts of carbon pricing in reducing the carbon intensity of china's GDP* (World Bank, Washington, DC, 2016; <http://dx.doi.org/10.1596/1813-9450-7735>).



209. R. Ruoen, C. Kai, *China's GDP in U.s. dollars based on purchasing power parity* (The World Bank, 1999; <http://dx.doi.org/10.1596/1813-9450-1415>).
210. Hephaestus Books, *Articles on demographics of the people's republic of China, including* (Hephaestus Books, 2011).
211. V. İmanov, Nauçniy-Prakticeskiy Seminar, "Oteçestvennaya Osmanistika i Turkologiya: İtogi i Perspektivi" 2 İyulya 2009, Institut Vostokovedeniya, KGU, "Rusya'da Osmanlı ve Türkoloji Çalışmaları: Sonuçlar ve Perspektifler" Bilimsel Semineri, 2 Temmuz 2009, Kazan Devlet Üniversitesi, Şarkiyat Enstitüsü, Kazan, Tataristan-Rusya. *Mod. Türkük Araştırmaları Derg. /J. Mod. Turk. Stud.* **6**, 129–131 (2009).
212. B. Kara, Kentsel Kamusal Mekanların Kullanılabilirliği Üzerine Bir Araştırma: Tataristan Bugulma Parkı (Aydın). *Adnan Menderes Univ. Ziraat Fak. Derg.* (2020), doi:10.25308/aduziraat.727871.
213. A. N. Khomyakov, V. A. Aliev, O. A. Moskvitin, I. P. Bochinin, Inadmissibility of imitation of compliance with the law when concluding a state contract with a sole supplier (on the example of the penal system). *jour*, 84–89 (2021).
214. A. T. Aliev, Academy of Social Management, K. V. Baldin, A. V. Saveliev, MIREA - Russian Technological University, FSUE «All-Russian Scientific Research Institute “Center,” Management of innovative activity by enterprises of the construction industry in the modern conditions of the digital transformation of the Russian economy. *Scientific Journal ECONOMIC SYSTEMS*. **1**, 125–134 (2021).
215. B. N. Porfiriyev, Institute of Economic Forecasting of the Russian Academy of Sciences, Considering global risks priorities and GDP indicator's role within the context of the wesp-2021 report. *Научные труды Вольного экономического общества России*. **228**, 52–58 (2021).
216. A. M. Vafin, Индикативное планирование как инструмент реализации промышленной политики в регионе. *Вестник экономики, права и социологии* (2013) (available at <https://cyberleninka.ru/article/n/indikativnoe-planirovaniye-kak-instrument-realizatsii-promyshlennoy-politiki-v-regione>).
217. N. Ahmed Mareai Senan, A. Ahmad, S. Anagreh, M. I. Tabash, E. A. Al-Homaidi, An empirical analysis of financial leverage and financial performance: Empirical evidence from Indian listed firms. *Invest. Manag. Fin. Innov.* **18**, 322–334 (2021).
218. Y. B. Mohammed, Near East University (NEU), F. Ozdamli, Near East University, Department of Computer Information Systems, Mersin 10, Turkey., Motivational effects of gamification apps in education: A systematic literature review. *Brain (Bacau)*. **12** (2021), doi:10.18662/brain/12.2/196.
219. S. A. Abdelaziz Ismael, A. Mohammed, H. Hefny, An enhanced deep learning approach for brain cancer MRI images classification using residual networks. *Artif. Intell. Med.* **102**, 101779 (2020).



220. A. Jassam Mohammed, M. Hameed Arif, A. Adil Ali, A multilayer perceptron artificial neural network approach for improving the accuracy of intrusion detection systems. *IAES Int. J. Artif. Intell. (IJ-AI)*. **9**, 609 (2020).
221. D. A. Zebari, D. A. Ibrahim, D. Q. Zeebaree, H. Haron, M. S. Salih, R. Damaševičius, M. A. Mohammed, Systematic review of computing approaches for breast cancer detection based computer aided diagnosis using mammogram images. *Appl. Artif. Intell.* **35**, 2157–2203 (2021).
222. A. M. Vafin, A. V. Morozov, G. M. Galeeva, Conditions and mechanisms of investment support innovative regional economic development. *Bulletin of Kazan State Technological University* (2012) (available at https://scholar.google.ca/scholar?cluster=13118339938906835903&hl=en&as_sdt=0,5&sciodt=0,5).
223. G. Mohammed Abdullah Adel, Y. Wang, Effectiveness level of online plagiarism detection tools in Arabic. *Internet Things Cloud Comput.* **7**, 19 (2019).
224. M. El Bekkali, B. Bernoussi, M. Fattah, S. Mazer, Y. Balboul, S. E. Chafi, Cloud computing services, models and simulation tools. *Int. J. Cloud Comput.* **10**, 533 (2021).
225. M. B. Ali, Multiple perspective of cloud computing adoption determinants in higher education a systematic review. *Int. j. cloud appl. comput.* **9**, 89–109 (2019).
226. R. A. Hasan, M. A. Mohammed, Z. H. Salih, M. A. Bin Ameedeen, N. Tăpuş, M. N. Mohammed, HSO: A hybrid swarm optimization algorithm for re-ducing energy consumption in the cloudlets. *TELKOMNIKA*. **16**, 2144 (2018).
227. A. Lakhan, M. S. Memon, Q.-U.-A. Mastoi, M. Elhoseny, M. A. Mohammed, M. Qabulio, M. Abdel-Basset, Cost-efficient mobility offloading and task scheduling for microservices IoVT applications in container-based fog cloud network. *Cluster Comput.* (2021), doi:10.1007/s10586-021-03333-0.
228. M. Abdullahi, M. A. Ngadi, S. I. Dishing, S. M. Abdulhamid, An adaptive symbiotic organisms search for constrained task scheduling in cloud computing. *J. Ambient Intell. Humaniz. Comput.* (2022), doi:10.1007/s12652-021-03632-9.
229. X. Qi, S. Joghee, A. S. Mohammed, E-commerce combined with enterprise management using Cloud Computing for business sector. *Research Square* (2021), , doi:10.21203/rs.3.rs-747633/v1.
230. H. Al-Bahadili, A. Al-Sabbah, M. Abu Arqoub, The architecture and analysis of a new cloud collaborative commerce model. *Int. j. cloud appl. comput.* **3**, 1–19 (2013).
231. A. M. Rahmani, M. Mohammadi, A. H. Mohammed, S. H. T. Karim, M. K. Majeed, M. Masdari, M. Hosseinzadeh, Towards data and computation offloading in mobile cloud computing: Taxonomy, overview, and future directions. *Wirel. Pers. Commun.* **119**, 147–185 (2021).



232. A. M. Vafin, A. V. Morozov, G. M. Galeeva, E. P. Fazlyeva, Improvement of regional economic policy in the municipalities of the Republic of Tatarstan. *Bulletin of the Kazan State* (2012) (available at https://scholar.google.ca/scholar?cluster=904444820856570469&hl=en&as_sdt=0,5&sciodt=0,5).
233. A. A. Yusuf, F. Chong, M. Xianling, An analysis of graph convolutional networks and recent datasets for visual question answering. *Artif. Intell. Rev.* (2022), doi:10.1007/s10462-022-10151-2.
234. I. Yusuf, M. S. Baba, N. Iksan, Applied genetic algorithm for solving rich VRP. *Appl. Artif. Intell.* **28**, 957–991 (2014).
235. I. Y. Panessai, M. M. Lakulu, M. H. Abdul Rahman, N. A. Z. Mohd Noor, N. S. Mat Salleh, A. A. Bilong, PSAP: Improving accuracy of Students' Final Grade Prediction using ID3 and C4.5. *ijai.* **6**, 125–133 (2019).
236. H. Polat, W. Du, S. Renckes, Y. Oysal, Private predictions on hidden Markov models. *Artif. Intell. Rev.* **34**, 53–72 (2010).
237. Y. Pisan, Book review. *Artif. Intell.* **171**, 1124–1126 (2007).
238. B. Shah, S. Kunal, A. Bansal, J. Jain, S. Poundrik, M. K. Shetty, V. Batra, V. Chaturvedi, J. Yusuf, S. Mukhopadhyay, S. Tyagi, G. Meenahalli Palleda, A. Gupta, M. D. Gupta, Heart rate variability as a marker of cardiovascular dysautonomia in post-COVID-19 syndrome using artificial intelligence. *Indian Pacing Electrophysiol. J.* **22**, 70–76 (2022).
239. A. Maulana Yusuf, S. Suyanto, in *2021 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT)* (IEEE, 2021); <http://dx.doi.org/10.1109/iaict52856.2021.9532585>.
240. A. A. Adam, H. Soleimani, M. F. B. A. Shukur, J. O. Dennis, B. A. Abdulkadir, Y. M. Hassan, J. Y. Yusuf, N. A. B. Shamsuri, A new approach to understanding the interaction effect of salt and plasticizer on solid polymer electrolytes using statistical model and artificial intelligence algorithm. *J. Non Cryst. Solids.* **587**, 121597 (2022).
241. M. W. Rahman, F. T. Zohra, M. L. Gavrilova, Score level and rank level fusion for Kinect-based multi-modal biometric system. *J. Artif. Intell. Soft Comput. Res.* **9**, 167–176 (2019).
242. S. M. Darwish, A. H. Mohammed, Interval type-2 fuzzy logic to the treatment of uncertainty in 2D face recognition systems. *Int. J. Mach. Learn. Comput.*, 24–30 (2014).
243. M. A. Abdala, A. K. Al-Zuhairy, Integration of Smart Antenna System in Mobile Ad Hoc Networks. *Int. J. Mach. Learn. Comput.*, 342–346 (2013).
244. M. G. Mohammed, Dept. of Computer Science, College of Science, University of Duhok, Duhok, Kurdistan Region, Iraq, A. I. Melhum, Implementation of HOG feature extraction with tuned parameters for human face detection. *Int. J. Mach. Learn. Comput.* **10**, 654–661 (2020).



245. M. Ghesmoune, H. Azzag, S. Benbernou, M. Lebbah, T. Duong, M. Ouziri, Big Data: from collection to visualization. *Mach. Learn.* **106**, 837–862 (2017).
246. M. Alhamad, T. Dillon, E. Chang, A Trust-Evaluation Metric for Cloud applications. *Int. J. Mach. Learn. Comput.*, 416–421 (2011).
247. А. М. Вафин, Система индикативного управления инновационным развитием предприятий промышленного комплекса: на примере Республики Татарстан (2014) (available at <https://elibrary.ru/item.asp?id=22349848>).
248. I. V. Knyazeva, N. N. Zaikin, The concept of market power of the buyer (economic and theoretical aspects for the purposes of antimonopoly regulation). *jour*, 24–29 (2022).
249. Article Editorial, A new fundamental study of competition law issues (monograph review A.n. varlamova “competition law and industry commodity markets”). *jour*, 66–67 (2022).
250. S. V. Maksimov, O. G. Simonova, K. A. Utarov, Russian market of confectionery products (study of the feasibility of introducing mandatory control and accounting marking of the “Honest Sign” system). *jour*, 30–47 (2022).
251. M. D. Borisova, Implementation by regulated organizations of activities of investment programs in the field of housing and communal services (problems and ways to resolve them). *jour*, 56–61 (2022).
252. V. A. Shakirov, Melentiev Energy Systems Institute of Siberian Branch of the Russian Academy of Sciences, I. Y. Ivanova, R. A. Ivanov, Melentiev Energy Systems Institute of Siberian Branch of the Russian Academy of Sciences, Melentiev Energy Systems Institute of Siberian Branch of the Russian Academy of Sciences, Economic feasibility assessment of connecting remote eastern Arctic consumers to the power grid. *Arct. Ecol. Econ.* **12**, 19–33 (2022).
253. I. V. Akimova, I. N. Kozhevnikov, A franchise agreement as an act of unfair Competition. *jour*, 62–68 (2022).
254. D. V. Ognevskaya, Analytical review of law enforcement practice to identify violations of antimonopoly legislation during procurement procedures by certain types of legal entities. *jour*, 98–103 (2022).
255. А. М. Вафин, Диагностика основных проблем инновационного развития промышленности региона в системе индикативного управления (2013) (available at <https://cpei.tatarstan.ru/file/File/%D0%9D%D0%B0%D1%83%D1%87%D0%BD%D1%8B%D0%B9%20%D1%81%D0%B1%D0%BE%D1%80%D0%BD%D0%B8%D0%BA%206%20v%20gray%20sml.pdf#page=48>).
256. I. S. Vladimirova, Geophysical Survey of the Russian Academy of Sciences, L. I. Lobkovsky, D. A. Alekseev, Y. V. Gabsatarov, P. P. Shirshov Institute of Oceanology of the Russian Academy of Sciences, Moscow Institute of Physics and Technology (National Research University), Geophysical Survey of the Russian Academy of Sciences, Features of the seismic process in the western part of



- the Aleutian subduction zone and their possible relationship with climate changes in the Arctic. *Arct. Ecol. Econ.* **12**, 58–67 (2022).
257. N. A. Elbaeva, Antimonopoly compliance in the member states of the Eurasian Economic Union (legal aspects of practical application). *jour*, 42–47 (2022).
258. I. V. Bashlakov-Nikolaev, Transforming competition in a carbon-free economy. *jour*, 20–29 (2022).
259. I. A. Belik, Contemporary problems of tariff (price) regulation of transport services on non-public railway tracks. *jour*, 88–97 (2022).
260. A. A. Makosko, A.M.Obukhov Institute of Atmospheric Physics Russian Academy of Sciences, A. V. Matesheva, A.M.Obukhov Institute of Atmospheric Physics Russian Academy of Sciences, On the assessment of environmental risks from air pollution in the Arctic zone under a changing climate in the XXI century. *Arct. Ecol. Econ.* **12**, 34–45 (2022).
261. O. A. Pavlukhina, Legal Certainty: The obligation to comply with the order of the antimonopoly authority and the possibility of suspending its action. *jour*, 56–61 (2022).
262. E. A. Gorshkova, N. D. Barchuk, Compliance with antitrust laws at the stage of elaboration of strategy of product promotion (theoretical and practical aspects). *jour*, 30–41 (2022).
263. А. М. Вафин, Проблемы повышения эффективности региональных целевых программ развития промышленного производства. *Научные труды Центра перспективных* (2012) (available at <https://elibrary.ru/item.asp?id=20789722>).
264. D. J. Robinson, *The energy economy* (Palgrave Macmillan, Basingstoke, England, ed. 1, 2015).
265. D. Orrell, *Economyths* (Icon Books, Basingstoke, England, 2010).
266. R. Martin, Ed., *Economy* (Ashgate Publishing, London, England, 2008), *Contemporary Foundations of Space and Place*.
267. W. G. Sullivan, *Engineering Economy* (Pearson, Upper Saddle River, NJ, ed. 12, 2002).
268. S. Fenton, H. Bradley, *Ethnicity and economy* (Palgrave Macmillan, Basingstoke, England, ed. 1, 2002; <http://dx.doi.org/10.1057/9781403919953>).
269. J. G. Nellis, D. Parker, *The essence of the economy* (Prentice-Hall, London, England, 1990), *Prentice Hall Essence of Management Series*.
270. J. G. Nellis, D. Parker, *Essence Economy* (Financial Times Prentice Hall, Upper Saddle River, NJ, ed. 2, 1996), *Prentice Hall essence of management series*.
271. M. Corder, R. Brooker, *Environmental Economy* (Spon Press, London, England, 1986).
272. L. Zsolnai, *Ethics in the economy* (Verlag Peter Lang, Pieterlen, Switzerland, ed. 3, 2007), *Peter Lang Ltd.*



273. P. R. Kleindorfer, H. Kunreuther, D. S. Hong, Eds., *Energy, environment and the economy* (Edward Elgar Publishing, Cheltenham, England, 1996), *New Horizons in Environmental Economics Series*.
274. J. Darmstadter, *Energy in the world economy* (Johns Hopkins University Press, Baltimore, MD, 1972).
275. H. Ma, L. Oxley, *China's energy economy* (Springer, Berlin, Germany, 2014), *Lecture Notes in Energy*.
276. J. M. Godzimirski, Ed., *New political economy of energy in Europe* (Springer International Publishing, Cham, Switzerland, ed. 1, 2018; <http://dx.doi.org/10.1007/978-3-319-93360-3>), *International Political Economy Series*.
277. C. Mitchell, *The political economy of sustainable energy* (Palgrave Macmillan, Basingstoke, England, ed. 2008, 2007), *Energy, Climate and the Environment*.
278. A. Vafin, Should Firms Lower Product Price in Recession? A Review on Pricing Challenges for Firms in Economic Downturn. *RRST*. **2**, 1–24 (2018).
279. N. N. B. A. Rahman, L. H. Abdullah, A. B. C. Seman, A. Muneem, M. I. Rosele, M. E. A. Sukor, A. K. Ali, Imposing zakat on cryptocurrency (bitcoin): A shariah appraisal. *Glob. Bus. Econ. Rev.* **1**, 1 (2023).
280. N. Zakaria, W.-N. A. Wan-Ismail, A.-N. Abdul-Talib, Seriously, conspicuous consumption? The impact of culture, materialism and religiosity on Malaysian Generation Y consumers' purchasing of foreign brands. *Asia Pac. j. mark. logist.* **33**, 526–560 (2020).
281. Abdurahmanov, O. R. Madaminjonov, The importance of a favorable investment climate for the consistent implementation of structural changes in the regional economy. *South Asian j. mark. manag. res.* **10**, 60 (2020).
282. M. M. H. H. Abdullah, The impact of digital marketing communication on brand awareness and purchase intention: does customer engagement mediate the relationship between brand awareness and purchase intention. *Int. j. Islam. mark. brand.* **5**, 288 (2020).
283. M. Abdulsalam, W. D. Dahana, Influence of product involvement on tourist shopping behavior: The mediating role of place attachment, satisfaction, and visit frequency. *J. Int. Consum. Mark.*, 1–15 (2021).
284. L. Putit, A. Ahmad Suki, M. Fariz ABDULLAH, N. Ahmad, N. F. Salleh, N. H. Asmawi, Gravitating towards consumers' use of contactless payment: A COVID 19 pandemic perspective. *J. Mark. Res. Case Stud.*, 1–14 (2021).
285. O. Raiter, Macro-Economic and Bank-Specific Determinants of Credit Risk in Commercial Banks. *EQME*. **1**, 36–50 (2021).
286. H. Li, H. Yu, F. Min, D. Liu, H. Li, Incremental sequential three-way decision based on continual learning network. *Int. j. mach. learn. cybern.* **13**, 1633–1645 (2022).



287. J. Zhao, Z. Qiu, S. Sun, Multi-view multi-label active learning with conditional Bernoulli mixtures. *Int. j. mach. learn. cybern.* **13**, 1589–1601 (2022).
288. J. Dai, Q. Liu, Semi-supervised attribute reduction for interval data based on misclassification cost. *Int. j. mach. learn. cybern.* **13**, 1739–1750 (2022).
289. H. Wang, Y. Zhang, C. Liu, H. Liu, sEMG based hand gesture recognition with deformable convolutional network. *Int. j. mach. learn. cybern.* **13**, 1729–1738 (2022).
290. J. Wang, H. Li, L. Liang, Y. Zhou, Community discovery algorithm of complex network attention model. *Int. j. mach. learn. cybern.* **13**, 1619–1631 (2022).
291. Y. Li, C. Liu, S. Zhao, Q. Hua, Active partial label learning based on adaptive sample selection. *Int. j. mach. learn. cybern.* **13**, 1603–1617 (2022).
292. M. Li, C. Zhang, M. Chen, W. Xu, Multigranulation double-quantitative decision-theoretic rough sets based on logical operations. *Int. j. mach. learn. cybern.* **13**, 1661–1684 (2022).
293. F. Xie, Y. Xu, M. Ma, X. Pang, A safe acceleration method for multi-task twin support vector machine. *Int. j. mach. learn. cybern.* **13**, 1713–1728 (2022).
294. M. Vogl, P. G. Rötzel, S. Homes, Forecasting performance of wavelet neural networks and other neural network topologies: A comparative study based on financial market data sets. *Machine Learning with Applications*. **8**, 100302 (2022).
295. L. Abdi, S. Hashemi, Correction to: Binary domain adaptation with independence maximization. *Int. j. mach. learn. cybern.* **13**, 1795–1795 (2022).
296. Performance impact of minority class reweighting on XGBoost-based anomaly detection. *Int. J. Mach. Learn. Comput.* **12** (2022), doi:10.18178/ijmlc.2022.12.4.1093.
297. A. Dubey, A. Santra, J. Fuchs, M. Lübke, R. Weigel, F. Lurz, HARadNet: Anchor-free target detection for radar point clouds using hierarchical attention and multi-task learning. *Machine Learning with Applications*. **8**, 100275 (2022).
298. C. Regan, M. Nasajpour, R. M. Parizi, S. Pouriyeh, A. Dehghantanha, K.-K. R. Choo, Federated IoT attack detection using decentralized edge data. *Machine Learning with Applications*. **8**, 100263 (2022).
299. X. Liang, Y. Ma, G. Cheng, C. Fan, Y. Yang, Z. Liu, Meta-path-based heterogeneous graph neural networks in academic network. *Int. j. mach. learn. cybern.* **13**, 1553–1569 (2022).
300. Y. Tao, Z. Jun, Z. Zhi-hao, Z. Yi, Z. Fu-qiang, G. Xiao-zhi, Fault detection of train mechanical parts using multi-mode aggregation feature enhanced convolution neural network. *Int. j. mach. learn. cybern.* **13**, 1781–1794 (2022).
301. O. H. Nagoor, J. Whittle, J. Deng, B. Mora, M. W. Jones, Sampling strategies for learning-based 3D medical image compression. *Machine Learning with Applications*. **8**, 100273 (2022).



302. A. Vafin, The Impacts of Performance Records, Influence Potential and Passion on Leadership Training Productivity. *Journal of Modern Issues in Business Research* (2017) (available at <https://hcommons.org/deposits/item/hc:44885/>).
303. S. G. Mohammad, Young Researchers and Elite Club, Tabriz Branch, Islamic Azad University, Tabriz, Iran, A dynamic replication mechanism in data grid based on a weighted priority - based scheme. *i-manag. J. Cloud Comput.* **6**, 9 (2019).
304. S. Karimian-Aliabadi, M.-M. Aseman-Manzar, R. Entezari-Maleki, D. Ardagna, B. Egger, A. Movaghfar, Fixed-point iteration approach to spark scalable performance modeling and evaluation. *IEEE trans. cloud comput.*, 1–1 (2022).
305. S. M. J. Moghaddam, A. Andarzgoo, M. Saberi, An improved pricing algorithm for infrastructure as a service cloud. *Int. J. Cloud Comput.* **10**, 393 (2021).
306. S. Sharma, M. Sajid, Integrated fog and cloud computing issues and challenges. *Int. j. cloud appl. comput.* **11**, 174–193 (2021).
307. Z. Movahedi, B. Defude, A. M. Hosseiniinia, An efficient population-based multi-objective task scheduling approach in fog computing systems. *J. Cloud Comput. Adv. Syst. Appl.* **10** (2021), doi:10.1186/s13677-021-00264-4.
308. A. Al-Nawasrah, A. A. Almomani, S. Atawneh, M. Alauthman, A survey of fast flux botnet detection with fast flux cloud computing. *Int. j. cloud appl. comput.* **10**, 17–53 (2020).
309. A. Islam, A. Kumar, K. Mohiuddin, S. Yasmin, M. A. Khaleel, M. R. Hussain, Efficient resourceful mobile cloud architecture (mRARSA) for resource demanding applications. *J. Cloud Comput. Adv. Syst. Appl.* **9** (2020), doi:10.1186/s13677-020-0155-6.
310. A. Vafin, Negotiation with Dominant Supplier: Power Determination, Partnership, and Joint Buying. *International Journal of Contemporary Financial Issues* (2017) (available at <https://hcommons.org/deposits/item/hc:44887/>).
311. K. K. Twum, J. P. Kosiba, I. K. Abdul-Hamid, R. Hinson, Does corporate social responsibility enhance political marketing? *J. nonprofit public sect. mark.* **34**, 71–101 (2022).
312. M. E. Abdulkarimovna, The effectiveness of the use of blockchain technologies in sectors of the national economy. *South Asian j. mark. manag. res.* **10**, 53 (2020).
313. Y. H. Mohamed, A. R. Abdul Rahim, A. Ma’aram, The effect of halal supply chain management on halal integrity assurance for the food industry in Malaysia. *J. Islam. Mark.* **12**, 1734–1750 (2020).
314. M. Retia, M. M. El-Mougher Ahmed, F. Ghazi Faisal, Y. Ibrahim Kamal, A. Mohammed Ail Alosimi, Y. Attia Abdel Mageed, H. Bouamra, A. Youssef, A proposed strategy to reform the electricity sector in Egypt. *International Journal of Multidisciplinary Studies on Management, Business, and Economy.* **4**, 140–160 (2021).



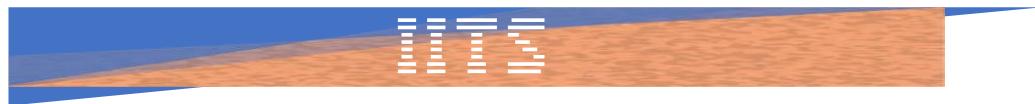
315. I. Basiran, M. Abdul Lasi, A study on the Impact of Government Using Social Media as medium in Sharing Information to public. *Socio. econ. pol. stud.* **1**, 21–26 (2021).
316. D. A.-H. A.-T. Al-Otaibi, H. H. Abdul Aziz, S. M. S. Abdel-mawgoud, A study of financial development impact on economic growth: A comparison between Egypt and Saudi Arabia. *Res. World Econ.* **12**, 94 (2021).
317. H. Ocal, A. Abdulbasah Kamil, The impact of risk indicators on sustainability(esg) and broad-based indices: An empirical analysis from Germany, France, Indonesia and turkey. *Int. J. Sustain. Econ.* **13**, 1 (2021).
318. M.-A. Mohamed, A.-N. Abdul-Talib, Push–pull factors influencing international return migration intentions: a systematic literature review. *J. Enterp. Communities People Places Glob. Econ. ahead-of-print* (2020), doi:10.1108/jec-01-2020-0004.
319. C. Ekwueme, R. O. Obasi, S. R. Abdullahi, U. A. Mustapha, N. Rashid, The influence of cash flow patterns on random organizational development in Nigerian listed companies. *Res. World Econ.* **11**, 171 (2020).
320. N. R. Magomedov, N. N. Magomedov, Z. N. Abdullaev, M. M. Gadzhiev, The effect of cultivation techniques on the productivity of the promising winter durum wheat variety “Krupinka” in Dagestan. *Grain Econ. Russ.*, 3–8 (2020).
321. A. Alirzayev, S. Shamkhalova, A. Abdulov, The impact of non-banking credit organization credits on economic growth in Azerbaijan. *Res. World Econ.* **11**, 334 (2020).
322. A. Vafin, Volume Discount Sensitivity Analysis for Optimal Pricing Strategies in B2B Firms. *Empirical Quests for Management Essences.* **2**, 15–29 (2018).
323. A. Ahadifar, Z. Karimi Takanlo, R. Ranjpour, J. Haghigat, Department of Economic Sciences; Faculty of Economics and Management; University of Tabriz; Tabriz; Iran, Department of Economic Sciences; Faculty of Economics and Management; University of Tabriz; Tabriz; Iran, Department of Economic Sciences; Faculty of Economics and Management; University of Tabriz; Tabriz; Iran, Department of Economic Sciences; Faculty of Economics and Management; University of Tabriz; Tabriz; Iran, Investigation of factors affecting banking leverage in selected Iranian banks (random-coefficients approach). *J. Mon. Ec.* **16**, 21–42 (2021).
324. M. H. Karim, Associate Professor of Agricultural Economics and a member of the Association of Rural Development, Kharazmi University, Tehran, Iran, Challenges of Iran’s rural cooperative networks. *Space Econ. Rural Dev.* **4**, 173–196 (2015).
325. M. I. Karim, S. Kouchakzadeh, H. Asna Ashari, M. Karim, M.A. of Rural Development and Food Security, University of Newcastle, Newcastle, Australia, Lecturer, Department of Economics, University of Vali Asr Rafsanjan Rafsanjan, Iran, Ph.D. Agricultural Economics, University of Sistan and Baluchestan, Zahedan, Iran, Associate Prof. in Economics and a member of the Association of Rural Development, Tehran, Iran, The impact of financial suppression upon Iranian rural poverty. *Space Econ. Rural Dev.* **4**, 75–86 (2015).



326. N. Abu, M. Z. A. Karim, The relationships between foreign direct investment, domestic savings, domestic investment, and economic growth: The case of Sub-Saharan Africa. *Soc. Econ.* **38**, 193–217 (2016).
327. Z. A. Karim, W. N. W. Azman-Saini, Firm-level investment and monetary policy in Malaysia: do the interest rate and broad credit channels matter? *J. Asia Pac. Econ.* **18**, 396–412 (2013).
328. N. G. Muminov, R. X. Abdusatarov, A. A. Ambartsumyan, D. M. Karimov, Peculiarities of manufacturing policy in Uzbekistan in the conditions of modernization of the economy. *Webology*. **19**, 2945–2963 (2022).
329. M. Sadr Mousavi, H. Karimzadeh, A. Khaleghi, Full Professor in Geography and Rural Planning, Tabriz University, Tabriz, Iran., Assistant Professor of Geography and Rural Planning, Tabriz University, Tabriz, Iran., PhD Student in Geography and Rural Planning, Tabriz University, Tabriz, Iran., Analyzing the causes of low participation of rural women by using mixed method Case: rural district of Sina in Varzeghan County. *Space Econ. Rural Dev.* **5**, 1–20 (2016).
330. А. М. Вафин, теории Университета управления \guillemotleft ТИСБИ \guillemotright; профессор кафедры экономической теории КНИТУ-КАИ им. АН Туполева, г. Казань.
331. S. M. Aghamirmohammadi, B. Momeni, S. Salimi, M. Kharrazi, Blue-Pill Oxpecker: a VMI Platform for Transactional Modification. *IEEE trans. cloud comput.*, 1–1 (2021).
332. R. Mohammadi Bahram Abadi, A. M. Rahmani, S. Hossein Alizadeh, Self-adaptive architecture for virtual machines consolidation based on probabilistic model evaluation of data centers in Cloud computing. *Cluster Comput.* **21**, 1711–1733 (2018).
333. M. H. Ameri, M. Delavar, J. Mohajeri, M. Salmasizadeh, A key-policy attribute-based temporary keyword search scheme for secure cloud storage. *IEEE trans. cloud comput.* **8**, 660–671 (2020).
334. M. Abbasi, M. Rafiee, M. R. Khosravi, A. Jolfaei, V. G. Menon, J. M. Koushyar, An efficient parallel genetic algorithm solution for vehicle routing problem in cloud implementation of the intelligent transportation systems. *J. Cloud Comput. Adv. Syst. Appl.* **9** (2020), doi:10.1186/s13677-020-0157-4.
335. A. Subramaniam, A. Mohammad, E. Aloysisius, School of Architecture, Computing and Engineering, University of East London, UK., School of Architecture, Computing and Engineering, University of East London, UK., School of Architecture, Computing and Engineering, University of East London, UK., Cloud-based erp for Arab manufacturing firms. *i-manag. J. Cloud Comput.* **3**, 1 (2016).
336. А. М. Вафин, Академия наук Республики Татарстан Центр перспективных экономических исследований.
337. B. Aslam, J. Hu, S. Shahab, A. Ahmad, M. Saleem, S. S. A. Shah, M. S. Javed, M. K. Aslam, S. Hussain, M. Hassan, The nexus of industrialization, GDP per capita and CO₂ emission in China. *Environ. technol. innov.* **23**, 101674 (2021).



338. A. Mashal, E. Ahmad, L. Nasrawi, A. Ghazalat, The impact of external funding flow on Jordan's GDP (1997-2017). *Int. J. Res. Bus. Soc. Sci.* (2147-4478). **10**, 328–337 (2021).
339. A. Ahmed Hashed Abdullah, Cost stickiness and firm profitability: A study in Saudi Arabian industries. *Invest. Manag. Fin. Innov.* **18**, 327–333 (2021).
340. S. U. Ahmed, S. P. Ahmed, U. Karmaker, R. Mizan, Institutional investment and corporate social performance: aggregated time-Series evidence from an emerging economy. *J. sustain. finance invest.*, 1–27 (2020).
341. A. Ahmed Hashed Abdullah, Impact of cost stickiness on financial disclosure quality: A study in the Saudi Arabian context. *Invest. Manag. Fin. Innov.* **17**, 145–151 (2020).
342. Y. A. Tahat, A. H. Ahmed, D. Power, Earnings quality and investment efficiency: the role of the institutional settings. *Rev. Quant. Fin. Acc.* **58**, 1277–1306 (2022).
343. M. Murshed, M. Elheddad, R. Ahmed, M. Bassim, E. T. Than, Foreign direct investments, renewable electricity output, and ecological footprints: Do financial globalization facilitate renewable energy transition and environmental welfare in Bangladesh? *Asia-Pac. Financ. Mark.* **29**, 33–78 (2022).
344. M. Aksar, S. Hassan, M. B. Kayani, S. Khan, T. Ahmed, Cash holding and investment efficiency nexus for financially distressed firms: The moderating role of corporate governance. *Manag. Sci. Lett.* **12**, 67–74 (2022).
345. M. Amunategui, M. Roopaei, *Monetizing machine learning* (APress, Berlin, Germany, ed. 1, 2018).
346. Y. Sheng, Performance-based authoritarianism revisited: GDP growth and the political fortunes of China's provincial leaders. *Mod. China*, 009770042210742 (2022).
347. U. R. Worku, The determinants of GDP growth rate in east Africa. *China-USA Bus. Rev.* **20** (2021), doi:10.17265/1537-1514/2021.01.002.
348. K. Raza Abbasi, 1 School of Economics, Shanghai University, No. 99, Shangda Road, Baoshan Campus, Baoshan, District, Shanghai, China, K. Hussain, J. Abbas, F. Fatai Adedoyin, P. Ahmed Shaikh, H. Yousaf, F. Muhammad, 2 Department of Economics, Mirpur University of Science and Technology (MUST), Mirpur Postcode 10250, AJK, Pakistan, 3 Antai College of Economics and Management (ACEM), Shanghai Jiao Tong University, 200240 Shanghai, China, 4 Department of Accounting, Finance, and Economics, Bournemouth University, United Kingdom, 5 Department of Economics, Lasbela University of Agriculture, Water and Marine Science (LUAWMS), Uthal, Lasbela, Balochistan, Pakistan, 6 Department of Economics, Karakoram, International University, Gilgit-Baltistan, Pakistan, Analyzing the role of industrial sector's electricity consumption, prices, and GDP: A modified empirical evidence from Pakistan. *AIMS energy*. **9**, 29–49 (2021).
349. S. Hsu, A. C. Melchor Simon, China's structural transformation: reaching potential GDP in the financial services sector. *China Fin. Econ. Rev.* **4** (2016), doi:10.1186/s40589-016-0027-x.



350. N. Yiping, X. Yi, B. van Leeuwen, Calculating China's historical economic aggregate: A GDP-centered overview. *Soc. Sci. China.* **37**, 56–75 (2016).
351. H. S. Chan, J. Gao, Death versus GDP! Decoding the fatality indicators on work safety regulation in post-Deng China. *China Q.* **210**, 355–377 (2012).
352. L.-L. Lin, Q.-H. Shi, H.-S. Wang, A.-G. Qin, X.-C. Yu, Over-expression of tomato GDP-mannose pyrophosphorylase (GMPase) in potato increases ascorbate content and delays plant senescence. *Agric. Sci. China.* **10**, 534–543 (2011).