

## **IMPACT OF TRANSPORTATION RELIABILITY ON ECONOMIC GROWTH AT UAE'S MARITIME INDUSTRY**

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### **ABSTRACT**

A dependable transportation system continuously provides clients with a range of predictable journey times. The reliability of the transportation system is one of the key performance objectives of various management and operating systems that have a huge impact on nation's economy. In order to evaluate the transportation reliability and its impact on economic growth, time should be taken into account when planning for crises and calamity recovery. This research helps to find out the UAE's economic growth rate and impact of transportation reliability through prior literature, research articles, journals and latest research reports.

***Keywords:*** *Transportation Reliability, Economic Growth, Maritime Industry UAE.*

### **1. INTRODUCTION**

Good transportation investment lowers the cost of moving goods and people. This improves economic efficiency, which may be quantified as the amount of goods and services produced for

every dollar spent by the private and public sectors. And improved living conditions are a result of higher efficiency [1], [2]. Efficiency should be a major consideration when considering the significance of spending on transportation because it is a crucial element of economic development [3]. It is critical to focus on expanding efficiency while policymakers work to achieve other significant long-term transportation goals, such as improving protection, energy independence, and environmental sustainability [4], [5]. The transportation industry is a crucial source of income and a widely used tool for production because of the extensive use of infrastructure. This is especially true in the current global context, where economic prospects have quickly been linked to human mobility, shipping, and even telecommunications [6]–[8]. The quantity and effectiveness of transportation infrastructure and the rate of economic growth are dependable. In general, tightly connected networks and high density transportation systems are associated with high rates of growth [9]. Because transportation networks are efficient, they provide resources and benefits on the economic and social fronts that help to boost revenue in a good way by increasing consumer access, creating jobs, and driving up spending [10], [11]. The objective to focus on this factor can contribute to the research for academics and professional areas. Books, journals, literature and research articles on UAE economy are best source to assess the significance of transportation reliability.

## **2. THEORITICAL FRAMEWORK**

### *2.1. Transportation Reliability*

Transportation reliability reflects the quality and variability of travel time. Variables reflective of travel time performance represent quality and predictability of travel. A secure transportation infrastructure offers consistent travel times for its consumers [12]–[14]. The reliability of transportation services is one of the key success results and areas for development across transportation networks [15]. Management and procedures techniques aim to achieve a range of organizational goals including reducing non-recurring disruptions, reducing prolonged delays related to accidents and job zones, and improving transit on-times [16]–[20]. It is reported that more than half of the congestion faced by passengers is induced by conditions, traffic accidents, job zones and special events [21]–[23]. Strategies to increase the degree of continuity of activities by the method of consistently defining and solving the root causes of delay [24]–[26].

Transportation period knowledge significantly changes the transportation process [27]. Reliability is evident in transportation period owing to the system's complex actions and what specific system parameters are [28]–[30]. The maritime industry has been studied less than the road and rail modes, so there is still much to be done in this region [31]–[33]. In maritime perspective, describes the transportation reliability as time required for some of the operations from loading at source harbor until it's offloading at the destinations and so the return route [34], [35].

## *2.2. Economic Growth*

A rise in the output of goods and services during a specific time period is referred to as economic growth. The computation must account for inflation's effect in order to be as accurate as possible [36]–[39]. Global affluence is generating more income for businesses [40]–[42]. As a consequence, equity values are increasing [43]–[45]. This offers corporations money to spend to recruit more workers. In recent decades, the shipping or maritime sector has made a major impact to the global economy.

## *2.3. Maritime Industry in UAE*

The power of the maritime industry in the UAE resides in its strategic role as a logistics hub in the Middle East, and its major shipping companies continue to expand year-on-year. Emirate form the UAE. Dubai remains a huge maritime center, but other emirates still make a significant addition of their own to the shipping market. The UAE profits from its crucial geographical position that links the Red Sea, the Indian subcontinent and East Africa.

The port run by DP World, Jebel Ali, is the busiest port in the Arab World and the ninth world's largest ports in the world. Upwards of 5,500 firms are estimated to operate in Dubai throughout the maritime industry, helping the economy with 76,000 workers. In 2018, relative to the year before, Dubai's GDP rose by 1.9 percent and the storage and transportation sector is estimated to contribute 12 percent to GDP. The shipping and logistics industries are crucial to the economic development of the UAE.

As the UAE's maritime trading center covering general and bulk freight, containers and increasing roll-on/roll-off traffic, the Abu Dhabi ports have even shown continuous progress. Investment is pouring into the modern naval shipyard at Khalifa Port. Fujairah is yet another maritime center in

the UAE, and Abu Dhabi Ports will experience further expansion of its infrastructure, include widening of berths and increased storage facilities, which are reported to require 500 million dirhams of expenditure.

A variety of large ship operators, including subsidiaries of foreign owners, are hosted by the UAE. In the UAE, the offshore industry is weathering the storm comparatively better than in some other areas of the world, with vessel utilization rates higher than the world average in the area. For a variety of offshore ship operators, the UAE remains a significant hub. The government of the UAE has sustained its initiatives and priorities to establish conditions for the development of the sector and to render the UAE an increasingly significant maritime center.

The "Maritime Review by 2015" published by UNCTAD reveals that almost 80 per cent of global volume trade in goods has been achieved across ports and shipping routes. The maritime transport sector provides a major contribution to the wellbeing and prosperity of nations, contributing about \$380 billion a year by freight prices alone to the global economy. Around the same period, the overall volume of maritime transport grew gradually last year, hitting 9,84 billion tons in 2014. Standing at the crucial intersection of inland and coastal trade, the container port is a critical link between various types of transport and a central point in the transport chain. For an economy, maritime transport not only guarantees the import of limited resources required for manufacturing operations, but also encourages the exporting of excessive resources, that builds up further revenue for the country. Maritime trade is also a central element in economic globalization. Container transport, in particular, has been the most critical form of transport in international commerce and a modern window for the growth of global economic ties and trade.

### **3. LITERATURE REVIEW**

#### *3.1. Impact of Transportation Reliability on Economic Growth*

The interface among investing in transport and economic growth has wide implications that go beyond the simple function of transporting commodities and citizens from one location to another [33], [46]–[48]. While there is no question that transport is important to the functioning of the commercial economy, there is still a great deal to be learned as to how an effective transport infrastructure will increase the efficiency of the economy [49]–[51]. Transportation often plays a

wider position in influencing infrastructure and the environment [52]–[55]. Economic issues over the next generation will progressively concentrate on the influence of travel on where people reside [56] and where enterprises are located; and on the impact of those position decisions on patterns of land use, pollution of urban transport networks, utilization of natural capital, air and water quality, and living standard [57]–[59]. Issues of urbanization, soil management, and air and water quality have now made their way to the center of policy discourse at the national and local level [60]–[62]. In order to make wise choices, policy makers must be prepared with the best available knowledge and insight on the relationships between these different variables [63]–[65].

Good expenditure in transport reduces the expense of transporting people and commodities [66], [67]. This raises economic efficiency, which can approximately be calculated as the production of products and services per dollar of private and public spending [68]–[71]. And increased efficiency contributes to better living conditions [72], [73]. Because efficiency is a core component of economic development, it should be of significant concern when determining the importance of transport spending [74]–[78]. It is important to concentrate on improving efficiency even as policymakers aim to fulfill other important long-term transport goals, such as improving protection, energy independence and environmental sustainability [79], [80]. High productivity expenditure in transport improves mobility and decreases pollution, while improving economic well-being. Short-term employment growth, although crucial to economic development, does not allow one to neglect the longer-term outlook [81]–[84]. High productivity expenditure in transport improves mobility and decreases pollution, while improving economic well-being [85], [86].

### *3.2. Relationship between Transportation Reliability and Economic Growth*

Governments, companies and people make a lot of infrastructure spending and choices on the usage of transport every day [87]. Place and planning policies are often strongly affected by transport [88]. People also use travel data to make these choices [89], [90]. Are there some general transport and economic development metrics that should be routinely established and that will usually allow both parties to make transport-related decisions?

The relationship between transport and the economy is quite complicated and confused [91]. Transportation is a large industry with major direct and indirect impacts on industrial productivity and economic growth [92]–[94]. The transport industries the operation of transport facilities, the manufacturing of automobiles and the development of infrastructure are, in themselves, main

economic activities [95]. Transportation is the expense, to a greater or lesser degree, of practically any other product or service in the economy. Transport is an enabler of commercial development and a facilitator of foreign exchange [96]. Transportation is a predictor of economic activity: it may be a leading indicator in certain situations, since human activities initiate monetary operations [97]–[100]. Transportation is a result of economic development, inasmuch as goods have to be transported to customers. Some of these associations are simply circular: transport influences economic conditions and economic conditions affect transport [101]–[103]. In addition, many of these partnerships are changing with shifts in technology, economic growth, regional changes and several other influences [104].

### *3.3. Influence of Transportation Reliability in Economic Growth*

The creation of transport networks usually occurs in a socio-economic sense. Although development initiatives and plans appear to concentrate on physical capital, human capital considerations have been better balanced in recent years [105]–[107]. Given the relative value of physical versus human resources, growth cannot take place without engaging as facilities cannot stay successful without proper service and maintenance [108], [109]. Around the same period, commercial operations cannot be carried out without an infrastructure foundation [110]–[112]. The strongly transactional and service-oriented operations of many transport practices illustrate the dynamic partnership between its physical and human resource needs. Successful logistics, for example, depends on technology and management experience [113], [114].

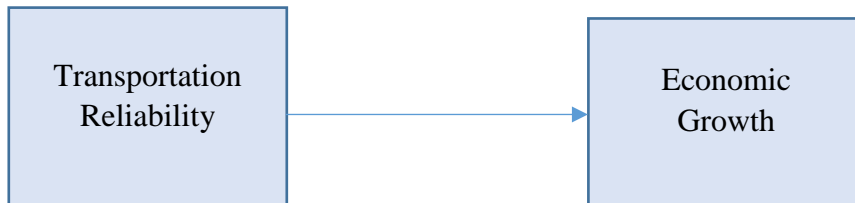
Due to the extensive usage of infrastructure, the transport sector is an essential source of revenue and a common tool used for production [115]–[118]. This is especially true in the current global context, where economic prospects have quickly been linked to human mobility, shipping, and even telecommunications [119], [120]. The quantity and effectiveness of transportation infrastructure and the rate of economic growth are directly correlated [121], [122]. High levels of growth are typically coupled with tightly connected networks and high density transportation systems [123]–[126]. As transport networks are effective, they offer economic and social resources and advantages that contribute to positive increased income such as greater consumer access, jobs and increased expenditure [127]. There may be financial expenses associated with inadequate transportation systems, such as reduced or lost opportunities and a lower standard of living [128], [129].

### *3.4. UAE Transportation Reliability and Economic Growth at Maritime Industry*

For decades, Dubai has been established as a trading city, a successful trading post in the Gulf area. The first stage of the establishment of a transport and logistics cluster started in the 1960s [130]. Initially, the creek was dredged to satisfy the trade in crude; but, by the 1970s, the government understood the need to diversify the economy outside oil [131]–[134].

Focusing on improving Dubai's core strengths in terms of position and historical heritage as a trade center for the area, Sheik Zayed provided orders in 1976 for the development of Jebel Ali Port, the largest man-made port in the world and the largest port in the Middle East [135]–[137]. Jebel Ali Port has guided the growth of maritime transport to and from the UAE, and also the production of major shipping and transshipment operations, shipbuilding, repair and maintenance facilities [138], [139]. Until that time, India, Iran and Eastern Africa were the main trade partners of the UAE.

### *3.5. General Research Model*



*Figure 1: Conceptual Research Model*

## **4. DISCUSSION**

Dubai has positioned itself as one of the most renowned shipping centers worldwide over the past two decades and has been a significant region in the international maritime industry. The maritime sector in Dubai is large and also wide, consisting of more than 5,600 firms listed in some 13,000 operations, ranging from shipbuilding, cargo logistics and dry bulk storage to port management and maritime engineering and dredging services. The maritime sector actually contributes some 7% to GDP, almost doubling to about US\$ 7.3 billion, relative to US\$ 3.9 billion in GDP in 2015. The business also accounts for about 3.3 percent of the employment in the Emirates, with around

76,200 workers employed in the maritime industry. The largest share of maritime GDP was contributed by transport, led by port activities, maritime engineering and support services.

## 5. CONCLUSION

The research gives a quick outline of how transportation development has affected UAE's economic expansion. The nation has drawn interest from investors, job seekers, and visitors from around the world. The nation has several carefully constructed landmarks. By making a deliberate effort to gather notice on a worldwide scale and subsequently draw tourists. The country can be regarded as having world-class transportation facilities because the government has made significant contributions to the development of the nation's transportation. The government's efforts to improve transportation service have proven to be quite helpful in maintaining the pace of economic growth.

## REFERENCES

- [1] H. M. Alzoubi, M. Vij, A. Vij, and J. R. Hanaysha, "What leads guests to satisfaction and loyalty in UAE five-star hotels? AHP analysis to service quality dimensions," *Enlightening Tour.*, vol. 11, no. 1, pp. 102–135, 2021.
- [2] A. A. Kashif, B. Bakhtawar, A. Akhtar, S. Akhtar, N. Aziz, and M. S. Javeid, "Treatment Response Prediction in Hepatitis C Patients using Machine Learning Techniques," *Int. J. Technol. Innov. Manag.*, vol. 1, no. 2, pp. 79–89, 2021, doi: 10.54489/ijtim.v1i2.24.
- [3] M. El Khatib, A. Kherbash, A. Al Qassimi, and K. Al Mheiri, "How Can Collaborative Work and Collaborative Systems Drive Operational Excellence in Project Management?," *J. Serv. Sci. Manag.*, vol. 15, no. 03, pp. 297–307, 2022, doi: 10.4236/jssm.2022.153017.
- [4] H. M. Alzoubi *et al.*, "Modelling supply chain information collaboration empowered with machine learning technique," *Intell. Autom. Soft Comput.*, vol. 30, no. 1, pp. 243–257, 2021, doi: 10.32604/iasc.2021.018983.
- [5] M. T. Alshurideh, B. Al Kurdi, and S. A. Salloum, "The moderation effect of gender on accepting electronic payment technology: a study on United Arab Emirates consumers," *Rev. Int. Bus. Strateg.*, 2021.
- [6] H. M. Alzoubi, S. Hamadneh, O. Pedersen, M. Alshurideh, and B. A. Kurdi, "An Investigation Of The Role Of Supply Chain Visibility Into The Scottish Blood Supply Chain," *J. Leg. Ethical Regul. Issues*, vol. 24, pp. 1–12, 2021.
- [7] A. Akhtar, S. Akhtar, B. Bakhtawar, A. A. Kashif, N. Aziz, and M. S. Javeid, "COVID-19 Detection from CBC using Machine Learning Techniques," *Int. J. Technol. Innov. Manag.*, vol. 1, no. 2, pp. 65–78, 2021,



- doi: 10.54489/ijtim.v1i2.22.
- [8] M. M. El Khatib, G. Ahmed, and A. Al-Nakeeb, "Enterprise Cloud Computing Project for Connecting Higher Education Institutions: A Case Study of the UAE," *Mod. Econ.*, vol. 10, no. 01, pp. 137–155, 2019, doi: 10.4236/me.2019.101010.
- [9] T. Eli and Lalla Aisha Sidi Hamou, "Investigating the Factors That Influence Students' Choice of English Studies As a Major: the Case of University of Nouakchott Al Aasriya, Mauritania," *Int. J. Technol. Innov. Manag.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijtim.v2i1.62.
- [10] H. M. Alzoubi and R. Aziz, "Does emotional intelligence contribute to quality of strategic decisions? The mediating role of open innovation," *J. Open Innov. Technol. Mark. Complex.*, vol. 7, no. 2, p. 130, 2021, doi: 10.3390/joitmc7020130.
- [11] N. Alsharari, "Integrating Blockchain Technology with Internet of things to Efficiency. International Journal of Technology," *Innov. Manag. (IJTIM)*, vol. 1, no. 2, pp. 1–13, 2021.
- [12] H. Alzoubi *et al.*, "Predicting the intention to use google glass: A comparative approach using machine learning models and PLS-SEM," *Int. J. Data Netw. Sci.*, vol. 5, no. 3, pp. 311–320, 2021, doi: 10.5267/j.ijdns.2021.6.002.
- [13] M. Alshurideh, B. Al Kurdi, S. A. Salloum, I. Arpacı, and M. Al-Emran, "Predicting the actual use of m-learning systems: a comparative approach using PLS-SEM and machine learning algorithms," *Interact. Learn. Environ.*, 2020, doi: 10.1080/10494820.2020.1826982.
- [14] M. El El Khatib, A. Alhosani, I. Alhosani, O. Al Matrooshi, and M. Salami, "Simulation in Project and Program Management: Utilization, Challenges and Opportunities," *Am. J. Ind. Bus. Manag.*, vol. 12, no. 04, pp. 731–749, 2022, doi: 10.4236/ajibm.2022.124037.
- [15] T. Mehmood, "Does Information Technology Competencies and Fleet Management Practices lead to Effective Service Delivery?," *Empir. Evid. from E-Commerce Ind.*, vol. 1, no. 2, pp. 14–41, 2021.
- [16] H. M. Alzoubi, J. Hanaysha, and M. Al-Shaikh, "Importance of Marketing Mix Elements in Determining Consumer Purchase Decision in the Retail Market," *Int. J. Serv. Sci. Manag. Eng. Technol.*, vol. 12, pp. 56–72, 2021, doi: 10.4018/IJSSMET.2021110104.
- [17] D. Miller, "The Best Practice of Teach Computer Science Students to Use Paper Prototyping. International Journal of Technology," *Innov. Manag. (IJTIM)*, vol. 1, no. 2, pp. 42–63, 2021.
- [18] M. A. Khan, "Challenges Facing the Application of IoT in Medicine and Healthcare," *Int. J. Comput. Inf. Manuf.*, vol. 1, no. 1, pp. 39–55, 2021, doi: 10.54489/ijcim.v1i1.32.
- [19] Khatib, H. Alzoubi, and M. El, "BIM as a tool to optimize and manage project risk management," *Int. J. Mech. Eng.*, vol. 7, no. 1, pp. 6307–6323, 2022.
- [20] T. M. Ghazal *et al.*, "Modeling habit patterns using conditional reflexes in agency," *Intell. Autom. Soft Comput.*, vol. 30, no. 2, pp. 539–552, Aug. 2021, doi: 10.32604/iasc.2021.018888.
- [21] E. P. Mondol, "The Impact of Block Chain and Smart Inventory System on Supply Chain Performance at Retail Industry," *Int. J. Comput. Inf. Manuf.*, vol. 1, no. 1, pp. 56–76, 2021, doi: 10.54489/ijcim.v1i1.30.
- [22] M. El Khatib, A. Al Hammadi, A. Al Hamar, K. Oraby, and M. Abdulaziz, "How Global Supply Chain Management Is Disrupting Local Supply Chain Management Case of Oil and Gas Industry in UAE," *Am. J. Ind. Bus. Manag.*, vol. 12, no. 05, pp. 1067–1078, 2022, doi: 10.4236/ajibm.2022.125056.
- [23] C. T. Amponsah, G. Ahmed, M. Kumar, and S. Adams, "The business effects of mega-sporting events on host cities: An empirical view," *Probl. Perspect. Manag.*, vol. 16, no. 3, pp. 324–336, 2018, doi: 10.21511/ppm.16(3).2018.26.
- [24] H. Alzoubi and A. ALnuaimi, M., Dana Ajelat & Alzoubi, "Toward Intelligent Organizations: An Empirical

- investigation of Learning Orientation's role in Technical Innovation.," *Int. J. Innov. Learn.*, vol. 29, no. 2, pp. 207–221, 2020.
- [25] H. M. Alzoubi, S. Joghee, and A. R. Dubey, "Decisions effectiveness of FDI investment biases at real estate industry: Empirical evidence from Dubai smart city projects," *Int. J. Sci. Technol. Res.*, vol. 9, no. 3, pp. 3499–3503, 2020.
- [26] T. Ghazal, T. R. Soomro, and K. Shaalan, "Integration of Project Management Maturity (PMM) Based on Capability Maturity Model Integration (CMMI)," *Eur. J. Sci. Res.*, vol. 99, p. 418–428, 2013.
- [27] S. Guergov and N. Radwan, "Blockchain Convergence: Analysis of Issues Affecting IoT, AI and Blockchain," *Int. J. Comput. Inf. Manuf.*, vol. 1, no. 1, pp. 1–17, 2021, doi: 10.54489/ijcim.v1i1.48.
- [28] A. Alzoubi, "Renewable Green hydrogen energy impact on sustainability performance," *Int. J. Comput. Inf. Manuf.*, vol. 1, no. 1, pp. 94–105, 2021, doi: 10.54489/ijcim.v1i1.46.
- [29] M. Farouk, "The Universal Artificial Intelligence Efforts to Face Coronavirus COVID-19," *Int. J. Comput. Inf. Manuf.*, vol. 1, no. 1, pp. 77–93, 2021, doi: 10.54489/ijcim.v1i1.47.
- [30] B. A. Kurdi, M. Alshurideh, and S. A. Salloum, "Investigating a theoretical framework for e-learning technology acceptance," *Int. J. Electr. Comput. Eng.*, vol. 10, no. 6, 2020, doi: 10.11591/IJECE.V10I6.PP6484-6496.
- [31] H. M. Alzoubi *et al.*, "Fusion-based supply chain collaboration using machine learning techniques," *Intell. Autom. Soft Comput.*, vol. 31, no. 3, pp. 1671–1687, 2022, doi: 10.32604/IASC.2022.019892.
- [32] K. Elkhatib, M., Al Hosani, A., Al Hosani, I., & Albuflasa, "Agile Project Management and Project Risks Improvements: Pros and Cons.," *Mod. Econ.*, vol. 13, no. 9, pp. 1157–1176, 2022.
- [33] T. M. Ghazal, M. A. M. Afifi, D. Kalra, and B. Mago, "Information Technology Ethics and Professional Responsibilities," *Int. J. Adv. Sci. Technol.*, vol. 29, no. 4, pp. 11336–11343, 2020, [Online]. Available: <https://www.researchgate.net/publication/352159596>
- [34] A. J. Obaid, "Assessment of Smart Home Assistants as an IoT," *Int. J. Comput. Inf. Manuf.*, vol. 1, no. 1, pp. 18–38, 2021, doi: 10.54489/ijcim.v1i1.34.
- [35] M. Alshurideh, S. A. Salloum, B. Al Kurdi, A. A. Monem, and K. Shaalan, "Understanding the quality determinants that influence the intention to use the mobile learning platforms: A practical study," *Int. J. Interact. Mob. Technol.*, vol. 13, no. 11, pp. 157–183, 2019, doi: 10.3991/ijim.v13i11.10300.
- [36] H. M. Alzoubi, G. Ahmed, A. Al-Gasaymeh, and B. Al Kurdi, "Empirical study on sustainable supply chain strategies and its impact on competitive priorities: The mediating role of supply chain collaboration," *Manag. Sci. Lett.*, vol. 10, no. 3, pp. 703–708, 2020, doi: 10.5267/j.msl.2019.9.008.
- [37] Vorobeva Victoria, "Impact of Process Visibility and Work Stress To Improve Service Quality: Empirical Evidence From Dubai Retail Industry," *Int. J. Technol. Innov. Manag.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijtim.v2i1.59.
- [38] M. Alshurideh, B. Al Kurdi, A. Abu Hussien, and H. Alshaar, "Determining the main factors affecting consumers' acceptance of ethical advertising: A review of the Jordanian market," *J. Mark. Commun.*, vol. 23, no. 5, pp. 513–532, 2017, doi: 10.1080/13527266.2017.1322126.
- [39] T. M. Ghazal *et al.*, "Hep-pred: Hepatitis C staging prediction using fine Gaussian SVM," *Comput. Mater. Contin.*, vol. 69, no. 1, pp. 191–203, Jun. 2021.
- [40] H. M. Alzoubi *et al.*, "Fuzzy assisted human resource management for supply chain management issues," *Ann. Oper. Res.*, vol. 2, no. 308, pp. 617–629, 2022, doi: 10.1007/s10479-021-04472-8.
- [41] T. Eli, "Students' Perspectives on the Use of Innovative and Interactive Teaching Methods at the University of Nouakchott Al Aasriya, Mauritania: English Department as a Case Study," *Int. J. Technol. Innov.*

- Manag.*, vol. 1, no. 2, pp. 90–104, 2021, doi: 10.54489/ijtim.v1i2.21.
- [42] John Kasem and Anwar Al-Gasaymeh, “a Cointegration Analysis for the Validity of Purchasing Power Parity: Evidence From Middle East Countries,” *Int. J. Technol. Innov. Manag.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijtim.v2i1.60.
- [43] G. M. Qasaimeh and H. E. Jaradeh, “The Impact of Artificial Intelligence on the effective applying of Cyber Governance in Jordanian Banks,” *Int. J. Technol. Innov. Manag.*, vol. 2, no. 1, 2022.
- [44] B. Al Kurdi, M. Alshurideh, S. A. Salloum, Z. M. Obeidat, and R. M. Al-dweeri, “An empirical investigation into examination of factors influencing university students’ behavior towards elearning acceptance using SEM approach,” *Int. J. Interact. Mob. Technol.*, vol. 14, no. 2, pp. 19–41, 2020, doi: 10.3991/ijim.v14i02.11115.
- [45] M. El Khatib, A. AlMaeni, and W. Alkamali, “The Relation between Effective Digital Program Governance and Program Success,” *Am. J. Ind. Bus. Manag.*, vol. 12, no. 09, pp. 1402–1418, 2022, doi: 10.4236/ajibm.2022.129078.
- [46] H. M. Alzoubi, B. Al Kurdi, I. Akour, and M. T. Alshurideh, “The effect of blockchain and smart inventory system on supply chain performance: Empirical evidence from retail industry,” *Uncertain Supply Chain Manag.*, vol. 10, no. 4, pp. 1111–1116, 2022, doi: 10.5267/j.uscm.2022.9.001.
- [47] G. Ahmed and Nabeel Al Amiri, “the Transformational Leadership of the Founding Leaders of the United Arab Emirates: Sheikh Zayed Bin Sultan Al Nahyan and Sheikh Rashid Bin Saeed Al Maktoum,” *Int. J. Technol. Innov. Manag.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijtim.v2i1.58.
- [48] T. M. Ghazal, H. M. Alzoubi, R. M. Al Batayneh, N. Taleb, R. A. Said, and M. T. Alshurideh, “IT Governance Framework and Smart Services Integration for Future Development of Dubai Infrastructure Utilizing AI and Big Data, Its Reflection on the Citizens Standard of Living,” 2021, pp. 235–247. doi: 10.1007/978-3-030-76346-6\_22.
- [49] H. Alzoubi, M. Alshurideh, B. Kurdi, B. Obeidat, S. Hamadneh, and A. Ahmad, “The influence of supply chain partners’ integrations on organizational performance: The moderating role of trust,” *Uncertain Supply Chain Manag.*, vol. 10, no. 4, pp. 1191–1202, 2022.
- [50] Asem Alzoubi, “Machine Learning for Intelligent Energy Consumption in Smart Homes,” *Int. J. Comput. Inf. Manuf.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijcim.v2i1.75.
- [51] M. M.ElKhatib, “Knowledge Management System: Critical Success Factors and Weight Scoring Model of the Technical Dimensions,” *Int. J. Appl. Inf. Syst.*, vol. 7, no. 9, pp. 6–12, 2014, doi: 10.5120/ijais14-451213.
- [52] H. Alzoubi and G. Ahmed, “Do TQM practices improve organisational success? A case study of electronics industry in the UAE,” *Int. J. Econ. Bus. Res.*, vol. 17, no. 4, pp. 459–472, 2019, doi: 10.1504/IJEER.2019.099975.
- [53] B. Al Kurdi, M. Alshurideh, and T. Al afaishat, “Employee retention and organizational performance: Evidence from banking industry,” *Manag. Sci. Lett.*, vol. 10, no. 16, pp. 3981–3990, 2020, doi: 10.5267/j.msl.2020.7.011.
- [54] M. El Khatib, A. Al Jaber, and A. Al Mahri, “Benchmarking Projects’ ‘Lessons Learned’ through Knowledge Management Systems: Case of an Oil Company,” *iBusiness*, vol. 13, no. 01, pp. 1–17, 2021, doi: 10.4236/ib.2021.131001.
- [55] G. Ahmed and A. Rafiuddin, “Cultural Dimensions of Economic Development: A Case of UAE,” *Theor. Econ. Lett.*, vol. 08, no. 11, pp. 2479–2496, 2018, doi: 10.4236/tel.2018.811160.
- [56] T. M. Ghazal *et al.*, “Performances of k-means clustering algorithm with different distance metrics,” *Intell. Autom. Soft Comput.*, vol. 30, no. 2, pp. 735–742, Aug. 2021, doi: 10.32604/iasc.2021.019067.

- [57] H. M. Alzoubi, K. L. Lee, N. A. N. Azmi, J. R. Hanaysha, and M. T. Alshurideh, "The effect of digital supply chain on organizational performance: An empirical study in Malaysia manufacturing industry," *Uncertain Supply Chain Manag.*, vol. 10, no. 2, pp. 495–510, 2022, doi: 10.5267/j.uscm.2021.12.002.
- [58] N. Alsharari, "the Implementation of Enterprise Resource Planning (Erp) in the United Arab Emirates: a Case of Musanada Corporation," *Int. J. Technol. Innov. Manag.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijtim.v2i1.57.
- [59] M. Alshurideh, B. Kurdi, and A. Alnaser, "The impact of employee satisfaction on customer satisfaction: Theoretical and empirical underpinning," *Manag. Sci. Lett.*, vol. 10, no. 15, pp. 3561–3570, 2020.
- [60] M. El Khatib and A. Al Falasi, "Effects of Artificial Intelligence on Decision Making in Project Management," *Am. J. Ind. Bus. Manag.*, vol. 11, no. 03, pp. 251–260, 2021, doi: 10.4236/ajibm.2021.113016.
- [61] T. Ghazal, M. Affi, and D. Kaira, "Integration of collaboration systems in hospitality management as a comprehensive solution," *Int. J. Adv. Sci. Technol.*, vol. 29, no. 8s, pp. 3155–3173, 2020, [Online]. Available: <http://sersc.org/journals/index.php/IJAST/article/view/16386>
- [62] G. Ahmed, C. T. Amponsah, and S. S. Deasi, "Exploring the Dynamics of Women Entrepreneurship : A Case Study of UAE," *Int. J. Bus. Appl. Sci.*, vol. 7, no. 3, pp. 13–24, 2018.
- [63] H. M. Alzoubi, M. Alshurideh, B. Al Kurdi, I. Akour, B. Obeidat, and A. Alhamad, "The role of digital marketing channels on consumer buying decisions through eWOM in the Jordanian markets," *Int. J. Data Netw. Sci.*, vol. 6, no. 4, pp. 1175–1185, 2022, doi: 10.5267/j.ijdns.2022.7.002.
- [64] Nada Ratkovic, "Improving Home Security Using Blockchain," *Int. J. Comput. Inf. Manuf.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijcim.v2i1.72.
- [65] Maged Farouk, "Studying Human Robot Interaction and Its Characteristics," *Int. J. Comput. Inf. Manuf.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijcim.v2i1.73.
- [66] M. M. El Khatib and G. Ahmed, "Improving Efficiency in IBM Asset Management Software System 'Maximo': A Case Study of Dubai Airports and Abu Dhabi National Energy Company," *Theor. Econ. Lett.*, vol. 08, no. 10, pp. 1816–1829, 2018, doi: 10.4236/tel.2018.810119.
- [67] T. M. Ghazal, R. A. Said, and N. Taleb, *Internet of vehicles and autonomous systems with AI for Medical Things*. Soft Computing, 2021.
- [68] H. A. Shamout, Rabeb Ben-Abdallah, Muhammad Alshurideh, "A conceptual model for the adoption of autonomous robots in supply chain and logistics industry," *Uncertain Supply Chain Manag.*, vol. 10, no. 2, pp. 577–592, 2022.
- [69] H. M. Alzoubi, K. L. Lee, P. N. Romzi, J. R. Hanaysha, and M. Alshurideh, "Investigating the impact of benefits and challenges of IOT adoption on supply chain performance and organizational performance: An empirical study in Malaysia," *Uncertain Supply Chain Manag.*, vol. 10, no. 2, pp. 537–550, 2022, doi: 10.5267/j.uscm.2021.11.009.
- [70] Neyara Radwan, "the Internet'S Role in Undermining the Credibility of the Healthcare Industry," *Int. J. Comput. Inf. Manuf.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijcim.v2i1.74.
- [71] G. Ahmed and N. Al Amiri, "An Analysis of Strategic Leadership Effectiveness of Prophet Muhammad (PBUH) Based on Dave Ulrich Leadership Code," *J. Islam. Stud. Cult.*, vol. 7, no. 1, pp. 11–27, 2019, doi: 10.15640/jisc.v7n1a2.
- [72] B. H. Al Kurdi and M. T. Alshurideh, "Facebook Advertising as a Marketing Tool: Examining the Influence on Female Cosmetic Purchasing Behaviour," *Int. J. Online Mark.*, vol. 11, no. 2, pp. 52–74, 2021.
- [73] T. M. Ghazal *et al.*, "Software defect prediction using ensemble learning: A systematic literature review,"

- IEEE Access*, vol. 9, no. 1109, pp. 98754–98771, 2021, doi: 10.1109/ACCESS.2021.3095559.
- [74] H. M. Alzoubi, T. M. Ghazal, M. T. Alshurideh, B. Al Kurdi, and K. M. K. Alhyasat, “The effect of e-payment and online shopping on sales growth: Evidence from banking industry,” *Int. J. Data Netw. Sci.*, vol. 6, no. 4, pp. 1369–1380, 2022, doi: 10.5267/j.ijdns.2022.5.014.
- [75] Edward Probir Mondol, “the Role of Vr Games To Minimize the Obesity of Video Gamers,” *Int. J. Comput. Inf. Manuf.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijcim.v2i1.70.
- [76] M. Alshurideh, R. M. d.Taisir Masa’deh, and B. Alkurdi, “The effect of customer satisfaction upon customer retention in the Jordanian mobile market: An empirical investigation,” *Eur. J. Econ. Financ. Adm. Sci.*, vol. 47, no. 47, pp. 69–78, 2012.
- [77] E. Khatib, Z. M., R. A., and A. Al-Nakeeb, “The effect of AI on project and risk management in health care industry projects in the United Arab Emirates (UAE),” *Int. J. Appl. Eng. Res.*, vol. 6, p. 1, 2021.
- [78] M. El Khatib, M. Almtairi, and S. A. Al Qasemi, “The Correlation between Emotional Intelligence and Project Management Success,” *iBusiness*, vol. 13, no. 01, pp. 18–29, 2021, doi: 10.4236/ib.2021.131002.
- [79] H. M. Alzoubi, N. N. Alnazer, and M. A. Alnuaimi, “Analysing the appropriate cognitive styles and its effect on strategic innovation in Jordanian universities,” *Int. J. Bus. Excell.*, vol. 13, no. 1, pp. 127–140, 2017, doi: 10.1504/IJBEX.2017.085799.
- [80] S. Federico Del Giorgio, “IMPACTS OF CYBER SECURITY AND SUPPLY CHAIN RISK ON DIGITAL OPERATIONS: EVIDENCE FROM THE UAE PHARMACEUTICAL INDUSTRY Federico Del Giorgio Solfa,” *Int. J. Technol. Innov. Manag. (IJTIM)*, 2(2), vol. 2, no. 2, pp. 18–32, 2022.
- [81] H. M. Alzoubi, H. Elrehail, J. R. Hanaysha, A. Al-Gasaymeh, and R. Al-Adaileh, “The Role of Supply Chain Integration and Agile Practices in Improving Lead Time During the COVID-19 Crisis,” *Int. J. Serv. Sci. Manag. Eng. Technol.*, vol. 13, no. 1, pp. 1–11, 2022, doi: 10.4018/IJSSMET.290348.
- [82] Saad Masood Butt, “Management and Treatment of Type 2 Diabetes,” *Int. J. Comput. Inf. Manuf.*, vol. 2, no. 1, p. 1, 2022, doi: 10.54489/ijcim.v2i1.71.
- [83] M. Alshurideh, “Pharmaceutical Promotion Tools Effect on Physician’s Adoption of Medicine Prescribing: Evidence from Jordan,” *Mod. Appl. Sci.*, vol. 12, no. 11, 2018.
- [84] H. M. Alzoubi, M. Alshurideh, and T. M. Ghazal, “Integrating BLE Beacon Technology with Intelligent Information Systems IIS for Operations’ Performance: A Managerial Perspective,” 2021, pp. 527–538. doi: 10.1007/978-3-030-76346-6\_48.
- [85] H. Alzoubi, M. Alshurideh, B. Kurdi, I. Akour, and R. Aziz, “Does BLE technology contribute towards improving marketing strategies, customers’ satisfaction and loyalty? The role of open innovation,” *Int. J. Data Netw. Sci.*, vol. 6, no. 2, pp. 449–460, 2022.
- [86] N. Al Amiri, R. A. Rahim, and ..., “The organizational resources and knowledge management capability: A systematic review,” *Bus. Econ. ...*, vol. 15, no. 5, pp. 636–647, 2019, [Online]. Available: [https://www.researchgate.net/profile/Nabeel-Al-Amiri/publication/341824121\\_The\\_Organizational\\_Resources\\_and\\_Knowledge\\_Management\\_Capability\\_A\\_Systematic\\_Review/links/60840ac9907dcf667bbeae96/The-Organizational-Resources-and-Knowledge-Management-Capability](https://www.researchgate.net/profile/Nabeel-Al-Amiri/publication/341824121_The_Organizational_Resources_and_Knowledge_Management_Capability_A_Systematic_Review/links/60840ac9907dcf667bbeae96/The-Organizational-Resources-and-Knowledge-Management-Capability)
- [87] T. M. Ghazal, H. M. Alzoubi, R. Naqvi, T. R. Soomro, and M. T. Alshurideh, “The Nexus Between Big Data and Decision-Making: A Study of Big Data Techniques and Technologies,” in *The International Conference on Artificial Intelligence and Computer Vision*, 2021, pp. 838–853.
- [88] H. M. Alzoubi, G. Ahmed, and M. Alshurideh, “An empirical investigation into the impact of product quality dimensions on improving the order-winners and customer satisfaction,” *Int. J. Product. Qual. Manag.*, vol. 36, no. 2, pp. 169–186, 2022, doi: 10.1504/IJPQM.2021.10037887.

- [89] H. M. Alzoubi *et al.*, “IoT for Smart Cities: Machine Learning Approaches in Smart Healthcare-A Review,” *Futur. Internet*, vol. 13, no. 8, p. 218, 2021, doi: 10.3390/fi13080218.
- [90] J. C. T. Gaytan, A. M. Sakthivel, S. S. Desai, and G. Ahmed, “Impact of Internal and External Promotional Variables on Consumer Buying Behavior in Emerging Economy – An Empirical Study,” *Skyline Bus. J.*, vol. 16, no. 1, pp. 45–54, 2020, doi: 10.37383/sbj160104.
- [91] M. El Khatib, K. Alabdooli, A. AlKaabi, and S. Al Harmoodi, “Sustainable Project Management: Trends and Alignment,” *Theor. Econ. Lett.*, vol. 10, no. 06, pp. 1276–1291, 2020, doi: 10.4236/tel.2020.106078.
- [92] B. Amrani, A. Z., Urquia, I., & Vallespir, “INDUSTRY 4.0 TECHNOLOGIES AND LEAN PRODUCTION COMBINATION: A STRATEGIC METHODOLOGY BASED ON LINKS QUANTIFICATION Anne Zouggar Amrani, Ilse Urquia Ortega, and Bruno Vallespir,” *Int. J. Technol. Innov. Manag. (IJTIM)*, 2(2), vol. 2, no. 2, pp. 33–51, 2022.
- [93] T. M. Ghazal, E. Rehman, M. A. Khan, T. R. Soomro, N. Taleb, and M. A. Afifi, “Using blockchain to ensure trust between donor agencies and ngos in under-developed countries,” *Computers*, vol. 10, p. 8, Aug. 2021.
- [94] G. Ahmed and C. T. Amponsah, “Gender Differences in Entrepreneurial Attitude and Intentions: A Case of Dubai,” *Proc. Ed.*, vol. 11, no. 4, pp. 315–334, 2018, [Online]. Available: [https://www.researchgate.net/profile/Rudresh-Pandey-2/publication/349368995\\_Consumers'\\_purchase\\_decision\\_towards\\_Private\\_Label\\_Brands\\_An\\_Empirical\\_Investigation\\_for\\_Select\\_Indian\\_Retailers/links/602d103f299bf1cc26cfa009/Consumers-purchase-decision-towards](https://www.researchgate.net/profile/Rudresh-Pandey-2/publication/349368995_Consumers'_purchase_decision_towards_Private_Label_Brands_An_Empirical_Investigation_for_Select_Indian_Retailers/links/602d103f299bf1cc26cfa009/Consumers-purchase-decision-towards)
- [95] H. M. Alzoubi, B. Al Kurdi, M. Alshurideh, I. Akour, E. Tariq, and A. Alhamad, “The effect of social media influencers’ characteristics on consumer intention and attitude toward Keto products purchase intention,” *Int. J. Data Netw. Sci.*, vol. 6, no. 4, pp. 1135–1146, 2022, doi: 10.5267/j.ijdns.2022.7.006.
- [96] H. Alzoubi, M. Alshurideh, B. Al Kurdi, and M. Inairat, “Do perceived service value, quality, price fairness and service recovery shape customer satisfaction and delight? A practical study in the service telecommunication context,” *Uncertain Supply Chain Manag.*, vol. 8, no. 3, pp. 579–588, 2020, doi: 10.5267/j.uscm.2020.2.005.
- [97] H. M. Alzoubi and Y. Ramakrishna, “Empirical Investigation of Mediating Role of Six Sigma Approach in Rationalizing the COQ in Service Organizations,” *Oper. Supply Chain Manag.*, vol. 15, no. 1, pp. 122–135, 2022, doi: 10.31387/oscm0480335.
- [98] S. Akhtar, A., Bakhtawar, B., & Akhtar, “EXTREME PROGRAMMING VS SCRUM: A COMPARISON OF AGILE MODELS Asma Akhtar, Birra Bakhtawar, Samia Akhtar,” *Int. J. Technol. Innov. Manag. (IJTIM)*, 2(2), vol. 2, no. 2, pp. 80–96, 2022.
- [99] M. El Khatib, L. Nakand, S. Almarzooqi, and A. Almarzooqi, “E-Governance in Project Management: Impact and Risks of Implementation,” *Am. J. Ind. Bus. Manag.*, vol. 10, no. 12, pp. 1785–1811, 2020, doi: 10.4236/ajibm.2020.1012111.
- [100] T. M. Ghazal, M. Suleman, T. R. Soomro, and M. Alshurideh, “Combating Against Potentially Harmful Mobile Apps,” in *The International Conference on Artificial Intelligence and Computer Vision*, 2021, pp. 154–173. doi: 10.1007/978-3-030-76346-6\_15.
- [101] H. Alzoubi, M. Alshurideh, A. Gasaymeh, G. Ahmed, and B. Al Kurd, “Loyalty program effectiveness: Theoretical reviews and practical proofs,” *Uncertain Supply Chain Manag.*, vol. 8, no. 3, pp. 599–612, 2020, doi: 10.5267/j.uscm.2020.2.003.
- [102] M. El Khatib, F. Beshwari, M. Beshwari, and A. Beshwari, “The impact of blockchain on project management,” *ICIC Express Lett.*, vol. 15, no. 5, pp. 467–474, 2021, doi: 10.24507/icicel.15.05.467.
- [103] N. Al Amiri, R. E. A. Rahim, and G. Ahmed, “Leadership styles and organizational knowledge management

- activities: A systematic review,” *Gadjah Mada Int. J. Bus.*, vol. 22, no. 3, pp. 250–275, 2020, doi: 10.22146/gamaijb.49903.
- [104] H. M. Alzoubi, A. Alhamad, M. Alshurideh, K. Alomari, S. Hamouche, and S. Al-Hawary, “The effect of electronic human resources management on organizational health of telecommunications companies in Jordan,” *Int. J. Data Netw. Sci.*, vol. 6, no. 2, pp. 429–438, 2022.
- [105] H. M. Alzoubi and R. Yanamandra, “Investigating the mediating role of information sharing strategy on agile supply chain,” *Uncertain Supply Chain Manag.*, vol. 8, no. 2, pp. 273–284, 2020, doi: 10.5267/j.uscm.2019.12.004.
- [106] M. El Khatib, M. Hammerschmidt, and M. Al Junaibi, “Leveraging innovation input on enhancing smart service quality. Cases from Abu Dhabi Emirate,” *Int. J. Manag. Cases*, vol. 23, no. 2, pp. 46–62, 2021, [Online]. Available: <http://www.redi-bw.de/db/ebSCO.php/search.ebSCOhost.com/login.aspx%3Fdirect%3Dtrue%26db%3Dbuh%26AN%3D151548527%26site%3Dehost-live>
- [107] T. M. Ghazal, *Positioning of UAV base stations using 5G and beyond networks for IOMT applications*. Arabian Journal for Science and Engineering, 2021.
- [108] H. M. Alzoubi, J. R. Hanaysha, M. E. Al-Shaikh, and S. Joghee, “Impact of Innovation Capabilities on Business Sustainability in Small and Medium Enterprises,” *FIIB Bus. Rev.*, vol. 11, no. 1, pp. 67–78, 2022, doi: 10.1177/23197145211042232.
- [109] Nasim, S. F., M. R. Ali, and U. Kulsoom, “Artificial Intelligence Incidents & Ethics A Narrative Review. International Journal of Technology, Innovation and Management,” *Int. J. Technol. Innov. Manag.*, vol. 2, no. 2, pp. 52–64, 2022.
- [110] M. M. El Khatib and G. Ahmed, “Robotic pharmacies potential and limitations of artificial intelligence: A case study,” *Int. J. Bus. Innov. Res.*, vol. 23, no. 3, pp. 298–312, 2020, doi: 10.1504/IJBIR.2020.110972.
- [111] T. M. Ghazal *et al.*, “An iomt-enabled smart healthcare model to monitor elderly people using machine learning technique,” *Comput. Intell. Neurosci.*, vol. 2021, 2021, doi: 10.1155/2021/2487759.
- [112] A. Abudaqa, M. F. Hilmi, H. Almujaani, R. A. Alzahmi, and G. Ahmed, “Students’ perception of e-Learning during the Covid Pandemic: a fresh evidence from United Arab Emirates (UAE),” *J. E-Learning Knowl. Soc.*, vol. 17, no. 3, pp. 110–118, 2021, doi: 10.20368/1971-8829/1135556.
- [113] P. S. Ghosh, S., & Aithal, “BEHAVIOUR OF INVESTMENT RETURNS IN THE DISINVESTMENT,” *Int. J. Technol. Innov. Manag. (IJTIM)*, 2(2), vol. 2, no. 2, pp. 65–79, 2022.
- [114] M. M. El El Khatib and M. J. C. Oplencia, “The Effects of Cloud Computing (IaaS) on E- Libraries in United Arab Emirates,” *Procedia Econ. Financ.*, vol. 23, pp. 1354–1357, 2015, doi: 10.1016/s2212-5671(15)00521-3.
- [115] H. M. Alzoubi *et al.*, “Empirical linkages between ICT, tourism, and trade towards sustainable environment: evidence from BRICS countries,” *Econ. Res. Istraz.*, vol. 37, no. 1, pp. 850–862, 2022, doi: 10.1080/1331677X.2022.2127417.
- [116] M. Alshurideh, S. A. Salloum, B. Al Kurdi, and M. Al-Emran, “Factors affecting the social networks acceptance: An empirical study using PLS-SEM approach,” in *ACM International Conference Proceeding Series*, 2019, vol. Part F1479, pp. 414–418. doi: 10.1145/3316615.3316720.
- [117] D. M. M. El Khatib, “Integrating Project Risk Management and Value Engineering in Tendering Processes,” *Int. J. Eng. Res.*, vol. 4, no. 8, pp. 442–445, 2015, doi: 10.17950/ijer/v4s8/808.
- [118] S. Rana, S. Verma, M. M. Haque, and G. Ahmed, “Conceptualizing international positioning strategies for Indian higher education institutions,” *Rev. Int. Bus. Strateg.*, vol. 32, no. 4, pp. 503–519, 2022, doi: 10.1108/RIBS-07-2021-0105.

- [119] M. El Khatib, S. Hamidi, I. Al Ameer, H. Al Zaabi, and R. Al Marqab, "Digital Disruption and Big Data in Healthcare-Opportunities and Challenges," *Clin. Outcomes Res.*, vol. 14, pp. 563–574, 2022, doi: 10.2147/CEOR.S369553.
- [120] T. M. Ghazal *et al.*, "Multi-Dimensional Trust Quantification by Artificial Agents through Evidential Fuzzy Multi-Criteria Decision Making," *IEEE Access*, vol. 9, pp. 159399–159412, 2021, doi: 10.1109/ACCESS.2021.3131521.
- [121] H. M. Alzoubi, A. Ali, A. W. Septyanto, I. Chaudhary, H. A. Hamadi, and Z. F. Khan, "Applied Artificial Intelligence as Event Horizon Of Cyber Security," in *2022 International Conference on Business Analytics for Technology and Security (ICBATS)*, 2022, pp. 1–7. doi: 10.1109/ICBATS54253.2022.9759076.
- [122] T. M. Ghazal *et al.*, "IoMT Cloud-Based Intelligent Prediction of Breast Cancer Stages Empowered with Deep Learning," *IEEE Access*, vol. 9, pp. 146478–146491, Oct. 2021, doi: 10.1109/ACCESS.2021.3123472.
- [123] H. M. Alzoubi *et al.*, "Cyber Security Threats on Digital Banking," in *2022 1st International Conference on AI in Cybersecurity (ICAIC)*, 2022, pp. 1–4. doi: 10.1109/icaic53980.2022.9896966.
- [124] H. M. Alzoubi, T. Mehmood, M. Alshurideh, A. Al-Gasaymeh, and G. Ahmed, "Schumpeterian entrepreneurship theory: Evolution and relevance," *Acad. Entrep. J.*, vol. 25, no. 4, pp. 1–10, 2019.
- [125] S. Gorla, "A DECK OF CARDS TO HELP TRACK DESIGN TRENDS TO ASSIST THE," *Int. J. Technol. Innov. Manag. (IJTIM)*, 2(2), vol. 2, no. 2, pp. 1–17, 2022.
- [126] A. M. Sakkthivel, G. Ahmed, C. T. Amponsah, and G. N. Muuka, "The influence of price and brand on the purchasing intentions of Arab women: an empirical study," *Int. J. Bus. Innov. Res.*, vol. 28, no. 2, pp. 141–161, 2022, doi: 10.1504/IJBIR.2022.123260.
- [127] H. M. Alzoubi, A. U. Rehman, R. M. Saleem, Z. Shafi, M. Imran, and M. Pradhan, "Analysis of Income on the Basis of Occupation using Data Mining," in *2022 International Conference on Business Analytics for Technology and Security, ICBATS 2022*, 2022, pp. 1–4. doi: 10.1109/ICBATS54253.2022.9759040.
- [128] H. M. Alzoubi *et al.*, "AI-Based Prediction of Capital Structure: Performance Comparison of ANN SVM and LR Models," *Comput. Intell. Neurosci.*, vol. 2022, pp. 1–13, 2022, doi: 10.1155/2022/8334927.
- [129] M. M. El Khatib, A. Al-Nakeeb, and G. Ahmed, "Integration of Cloud Computing with Artificial Intelligence and Its Impact on Telecom Sector—A Case Study," *iBusiness*, vol. 11, no. 01, pp. 1–10, 2019, doi: 10.4236/ib.2019.111001.
- [130] H. M. Alzoubi *et al.*, "Digital Transformation and SMART-The Analytics factor," in *2022 International Conference on Business Analytics for Technology and Security, ICBATS 2022*, 2022, pp. 1–11. doi: 10.1109/ICBATS54253.2022.9759084.
- [131] H. M. Alzoubi, M. In'airat, and G. Ahmed, "Investigating the impact of total quality management practices and Six Sigma processes to enhance the quality and reduce the cost of quality: the case of Dubai," *Int. J. Bus. Excell.*, vol. 27, no. 1, pp. 94–109, 2022, doi: 10.1504/IJBEX.2022.123036.
- [132] M. M. El Khatib and G. Ahmed, "Management of artificial intelligence enabled smart wearable devices for early diagnosis and continuous monitoring of CVDS," *Int. J. Innov. Technol. Explor. Eng.*, vol. 9, no. 1, pp. 1211–1215, 2019, doi: 10.35940/ijitee.L3108.119119.
- [133] T. M. Ghazal *et al.*, "Edge AI-Based Automated Detection and Classification of Road Anomalies in VANET Using Deep Learning," *Comput. Intell. Neurosci.*, vol. 2021, pp. 1–19, Sep. 2021, doi: 10.1155/2021/6262194.
- [134] A. Abudaqa, R. A. Alzahmi, H. Almujaani, and G. Ahmed, "Does innovation moderate the relationship between digital facilitators, digital transformation strategies and overall performance of SMEs of UAE?," *Int. J. Entrep. Ventur.*, vol. 14, no. 3, pp. 330–350, 2022, doi: 10.1504/ijev.2022.124964.



- [135] H. M. Alzoubi *et al.*, “Securing Smart Cities Using Blockchain Technology,” in *2022 1st International Conference on AI in Cybersecurity (ICAIC)*, 2022, pp. 1–4. doi: 10.1109/icaic53980.2022.9896971.
- [136] M. El Khatib, H. M. Alzoubi, A. Al Mulla, and W. Al Ketbi, “The Role of Blockchain in E-Governance and Decision-Making in Project and Program Management,” *Adv. Internet Things*, vol. 12, no. 03, pp. 88–109, 2022, doi: 10.4236/ait.2022.123006.
- [137] T. M. Ghazal *et al.*, “Energy-efficiency model for residential buildings using supervised machine learning algorithm,” *Intell. Autom. Soft Comput.*, vol. 30, no. 3, pp. 881–888, 2021, doi: 10.32604/iasc.2021.017920.
- [138] M. El Khatib, S. Al Blooshi, and A. Al-habeeb, “The Challenge and Potential Solutions of Reading Voluminous Electronic Medical Records ( EMR ): A Case Study from UAE,” *IOSR J. Bus. Manag. (IOSR-JBM)*, vol. 18, no. 12, pp. 38–46, 2016.
- [139] O. Gulseven and G. Ahmed, “The State of Life on Land (SDG 15) in the United Arab Emirates,” *Int. J. Soc. Ecol. Sustain. Dev.*, vol. 13, no. 1, pp. 1–15, 2022, doi: 10.4018/ijsted.306264.