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The Impact of Males and Females Employees' Engagement on Organization Digital Transformation Performance in the UAE

Ahmed Yaseen¹

¹Researcher, United Arab Emirates

ARTICLEINFO	ABSTRACT
<i>Keywords:</i> Digital Transformation, Smart Cities, Gender Factor,	Employee engagement is a critical factor that can significantly impact organizational performance, and the engagement levels of both male and female employees play a crucial role in shaping various aspects of a company's success. There are several ways in which the engagement of male and female employees can
Employee Engagement.	influence organizational performance. This study investigates how both male and female employees' engagement is integral to organizational success. A diverse and
Received: Jan, 02, 2024 Accepted: Jan, 31, 2024 Published: Feb, 12, 2024	engaged workforce contributes to a positive workplace culture, enhances performance, and positions the organization for long-term sustainability in a competitive business environment with consideration to digital transformation of organizations in the United Arab Emirates.

1. INTRODUCTION

"Employee engagement is a vital aspect of organizational success in the United Arab Emirates (UAE), because it without delay influences the overall digital transformation performance and average achievement of corporations working within the region. The UAE's dynamic and diverse group of workers, which accommodates each nearby and expatriate talent, presents a completely unique context in which to take a look at the effect of employee engagement on organizational overall digital transformation performance [1]–[4]. This task goals to explore the multifaceted courting between worker engagement and organizational digital transformation performance within the UAE, shedding light on the precise factors that make contributions to this dynamic" [5]–[8].

"In latest years, the UAE has witnessed a full-size shift in its economic panorama, with a growing emphasis on know-how-based totally industries, innovation, and worldwide competitiveness [9]. This transformation underscores the importance of know-how how employee engagement plays a pivotal function in riding productivity, creativity, and innovation within corporations [10]–[13]. By inspecting the methods wherein engagement techniques are implemented and their effect on employee satisfaction and commitment, this project seeks to offer insights into the distinct demanding situations and possibilities that agencies stumble upon in the UAE, and how these factors in the end impact their basic digital transformation performance" [14]–[17].

"This study draws upon a combination of neighborhood case research, survey statistics, and existing literature to offer a comprehensive information of the impact of employee engagement on organizational digital transformation performance inside the UAE [1]–[4]. Through this exploration, we goal to provide actionable insights and tips for groups running in this dynamic and evolving environment, supporting them harness the strength of engaged employees to obtain their strategic dreams and enhance their competitive edge [18]–[21].

2. LITERATURE REVIEW

In this section here are some articles that I read and how they are related to my topic whether in the correlation of employee engagement and organizational digital transformation performance or if it is conducted in the UAE or not [22]–[24]. [25]. Did the study in Jordan. The authors used employee engagement as an independent variable as well as job satisfaction as a mediating variable [5]–[8]. The outcomes of the research indicate that employee engagement and job satisfaction have a positive impact on organizational digital transformation performance. [26]–[29]The article shows that employee engagement which is an variable has independent an effect on Organizational Citizenship Behavior (OCB) which acts as a mediating variable between engagement organizational employee and effectiveness which, in turn, affects organizational effectiveness. [30]–[32] The study goal is to investigate the link between Employee Engagement Dimensions which are (organizational strategy and implementation, organizational commitment, team commitment) and organizational effectiveness and the study shows that there is a positive relationship between these two as well as the authors used Online/Social Media as a Moderating Variable [33].' [34]–[36] Did the study in West Sumatra. The authors used organizational support, organizational commitment and organizational citizenship behavior as independent variables [37]. [10]–[13] The outcomes of the research indicate that all three variables have a positive impact on employee digital transformation performance [25], [38], [39]. Did the study in Pakistan. The article shows that employee engagement which is an independent variable positively influences Knowledge sharing which acts as a mediating variable between employee engagement organizational and digital transformation performance which, in turn, affects organizational digital transformation performance."

[1], [2], [40], [41] In these papers, the authors

used employee Involvement as an independent variable as well as profitability, productivity, and market share as a mediating variable. The outcomes of the research indicate that employee has positive impact Involvement а on profitability, productivity, and market share which will have an effect on organizational effectiveness."[5], [6], [42], [43] The articles show that there are three independent variables which are Job Satisfaction, Employee Loyalty, and Employee Commitment. The study indicates that all variables are positively correlated with Leadership Style or organizational digital transformation performance." [7], [8], [44], [45]The article shows that there are two independent variables which are Job Engagement and Organizational Commitment The study indicates that both variables are positively correlated with organizational digital transformation performance in the IT industry. " [10], [13], [46], [47] The authors used HRM practices as an independent variable that has an impact on Employee Engagement which acts as a mediating variable between HRM practices and organizational digital transformation performance which influences organizational digital transformation performance."[15], [48]-[50] Did the study in Southern Africa. The study shows that employee engagement which is an independent variable is positively influence the commitment of employees which is a mediating variable between employee engagement and organizational digital transformation performance and this mediating variable will have an effect on organizational digital transformation performance, also the authors used some moderating variables which is Job Design, Communication, Management Approach, Participation and Incentives."

[16], [51]–[53] The authors used self-efficacy and organizational support as independent variables as well as employee engagement as a mediating variable. The outcomes show that self-efficacy and organizational support is positively influence employee engagement which, in turn, affects employee digital transformation performance [54]."

[18], [20], [52], [55] Did the study in India use

pay and benefits, Health and safety, Digital transformation performance appraisal, digital transformation performance of the company, communication, training, leadership, grievance procedure, and career development as factors that will affect employee engagement which, in turn, affects employees effectiveness." [18]–[21].

These 12 publications are the ones that I determined to be the most relevant to my research project (2013–2023) [22]–[24], [56]. I noticed that the UAE has not been the site of any of the article's studies. The material mentioned above will be succinctly summarized and the research gap will be noted in the methodology.

2.1 Research gap

"According to the research article, numerous studies on countries in Jordan, India, Pakistan, Nigeria, Southern Africa, and Indonesia were carried out, covering the same subject as mine. However, nobody carried out in the UAE Thus, my goal is to carry out my research in the United Arab Emirates. Furthermore, gender is not used as a moderator variable in any of the research articles, thus I will use it in my research. "

2.2 Research Objective

"In this research, I will work on bridging the gap by examining the correlation between employee engagement and organizational digital transformation performance in the UAE, and provide answers to support this theory in the UAE Organizational sector. Conducting this study will allow organizations to create a supportive environment for employees and staff. "

3. METHODOLOGY

"The research methodology will be used in this Figure 1: Conceptual Framework Figure 1. Conceptual Framework

Figure 1. Framework of the study

study to get a better comprehension of the importance of employee engagement in UAE organizational digital transformation performance using simple random sampling [57]. We will collect the data from the selected sample of 50 people who work in organizations or have worked in organizations using a well-structured questionnaire [14]–[17]. The acquired data will be organized in a table and valued/analyzed using a simple percentage approach." [22]–[24], [25].

Accordingly, this study investigates the following research questions:

Q1" How does job satisfaction affect the engagement of the employee in the UAE?"

Q2 To what extent does organizational communication have an influence on the engagement of employees in the UAE?"

Q3 "At what range does the organizational commitment impact the engagement of employees in the UAE?"

Q4 "Does organizational support have an effect on the engagement of employees in the UAE?"

Q5 "To what extent does employee engagement have an impact on organizational digital transformation performance?"

Q6 "Is there any effect of Gender on the relationship between employee engagement and organizational digital transformation performance?"

Table 1. Variables of the study

Variables	Туре	Category
Job satisfaction	Independent	Demographic
Organizational communication	Independent	Demographic
Organizational commitment	Independent	Demographic
Organizational support	Independent	Demographic
Employee engagement	Mediator	Dichotomous
Gender	Moderator	Dichotomous
Organizational digital transformation performance	Dependent	Demographic



The study examines the following hypothesis:

H1: "there is an effect of Job satisfaction on Employee engagement in the UAE"

H0: "there is no effect of Job satisfaction on Employee engagement in the UAE"

H1: "there is an effect of Organizational communication on Employee engagement in the UAE"

H0: "there is no effect of Organizational communication on Employee engagement in the UAE"

H1: "there is an effect of Organizational commitment on Employee engagement in the UAE"H0: "there is no effect of Organizational commitment on Employee engagement in the UAE"

H1: "there is an effect of Organizational support on Employee engagement in the UAE"

H0: "there is no effect of Organizational support on Employee engagement in the UAE"

H1: "Gender has an effect on the link between Employee engagement and Organizational digital transformation performance in the UAE"

H0: "Gender has no effect on the link between Employee engagement and Organizational digital transformation performance in the UAE "

H1: "there is an effect of Employee engagement on Organizational digital transformation performance in the UAE'

H0: "there is no effect of Employee engagement on Organizational digital transformation performance

in the UAE"

It is essential to apply legal and ethical relativism approaches in research since they reduce biases and increase the study's usefulness. Data for this study was collected from staff members using a Google form. Since no personal information is required for the study to produce accurate and unbiased results, there is no hidden purpose; instead, the objectives will be briefly presented. Survey privacy is also maintained, and anonymity is preserved. Furthermore, the survey responses will be fully disclosed to the respondents prior to publication.

4. DATA COLLECTION

Effective data collection was an integral part of the research process and was used to measure and test the research. Data collection is key to obtaining the information necessary for proper research analysis, which in turn contributes to informed decision-making. There are two main approaches this field: qualitative and quantitative in approaches. The qualitative approach is the Using of non-statistical methods of data collection, exploratory methods examine meanings and provide contextual explanations. Quantitative methods, on the other hand, work with statistical data and analyze it using statistical methods. This study project used a quantitative method to collect data for further statistical analysis.

Quantitative methods reflect three different stages: survey, experiment, and observation. This includes designing survey questionnaires such as the survey used in this study and its distribution to the intended sample population. Experiments seek to split samples into control experiments for comparative analysis, careful observation of participants in samples makes data collection more natural in story in this case the study employed a survey method, using the online platform Google Forms to conduct the survey. Distribution was done through social media channels, especially WhatsApp, with a target sample size of 50 people. The main focus of the study was to collect data with great care using quantitative methods, especially the online survey method. This methodological decision assured the collection of relevant data needed for further statistical analysis. The survey was distributed through social media and administered through Google Forms. The fifty respondents had calculated а wav of communicating and interacting with the target sample size, which improved the data structure of the survey.

Table	1.	Vari	ables	of the	study
Table	т.	van	abics	or the	Study

Variable	Type of Scale	Scale Measurement
Select your gender?	Nominal	Simple category
Does job satisfaction affect the engagement of the employee?	Ordinal	Semantic Differential
To what extent does organizational communication have an influence on the engagement of employees?	Ordinal	Semantic Differential
At what range does the organizational commitment impact the engagement of employees?	Ordinal	Semantic Differential
Does organizational support have an effect on the engagement of employees?	Ordinal	Semantic Differential
To what extent does employee engagement have an impact on organizational digital transformation performance?	Ordinal	Semantic Differential

The next step is how to best use the information we have collected for our research once it is all complete. This stage is known as "deployment". It's about taking everything we collect and using it to understand, evaluate and make decisions. Now there are many ways to do this. Imagine trying to get information from individuals. You can do this by asking questions in person, by phone, online, or in writing. We decided to use an online survey for our study as it is a very popular method of data collection. Such surveys are conducted using online tools such as Google Forms. Users have the option to answer questions via email or visit the website. We chose to use an online survey because respondents could easily enter and complete the survey at their own pace. We did not have much time because we had a deadline to deal with our university project, so we set it up so that the respondents could answer the survey only once. This image below provides proof of a Google Form used to conduct an online survey with all of the survey's questions as well as the survey link to access it.

In this research, "sampling" refers to participants who answer our questions about their understanding of customer demand. We have two options for selecting these individuals: nonprobability stress sampling and probability stress sampling.

The nonprobability model assumes probability and not the process of selecting individuals on the basis of prior knowledge and preferences. In contrast, probability sampling requires a random selection of participants. In our study, we used a probability sampling method known as "simple random". This means that participants were randomly selected from various Web sites; No special criteria were required in the selection process. We wanted to make sure we had enough opinions, so we aimed for a total of 50 participants to answer our research questions.

5. DATA ANALYSIS AND DISCUSSION

Examining all the answers to the study questions we posed is the definition of data analysis. It's like trying to make sense of all the data we collect. There are many ways to do this, including reporting, explanatory, descriptive, and predictive. Our research focused on a different kind of data analysis known as "descriptive." That being said, our aim was to understand and clarify the relationship between employee engagement and firm digital transformation performance in the UAE. We were not trying to predict the future or provide explanations for past events. Instead, our goal was to provide an accurate picture of the current situation.

In this section the outcome of the questionnaire and the descriptive statistical show many results.



The bulk of respondents (64%) are males, while females account for the remaining (36%).



As we can see 69.3% of the respondents believe that job satisfaction has an effect on the employee engagement, while 4.1% don't support this statement. In addition, 26.5% of the respondents were neutral which means neither agreeing nor disagreeing with the statement.



In this chart there are 60% of respondents thinks that organizational communication influences employee engagement, while 8% of the respondent think that organizational communication does not influence employee engagement.



This chart indicates 70% of the respondents agree and highly agree that organizational commitment is important for the engagement of employee, which is a very high percentage. While 6% only disagree and highly disagree with this statement. And the remaining 24% were neutral with this statement.



This chart indicates that 61.2% of the respondents agree and highly agree that organizational support is necessary for the engagement of employees, which is a very high percentage. The remaining 38.7% divided into people who were neutral agreed with the statement which they 24.5% and the remaining 14.2% disagreed and highly disagree with the statement.



As we can see 64% of the respondents believe that employee engagement affects the organizational digital transformation performance, while 8% don't support this statement. In addition, 28% of the respondents were neutral which means neither agreeing nor disagreeing with the statement. Descriptive analysis in this research reveals many results.

Note: Highest Responses = Mean + Standard Deviation

Job satisfaction			
Mean	4		
Standard Deviation	1.05744847577154		
Skewness	-1.05016244670988		

Lowest Responses = Mean - Standard Deviation Highest Responses = 4+1= 5 Lowest Responses = 4-1=3



Looking at the table, it seems like most people gave high ratings when talking about how job satisfaction affects employee engagement. The average rating is 4, which shows that, but on the other hand, the skewness being negative at -1.05 which means that even if the average response is high still most of the ratings are on the left side of this average which is between 3 and 4. So based on that H0 is accepted.

H0: "there is no effect of Job satisfaction on Employee engagement in the UAE"

Organizational communication		
Mean 3.8		
Standard Deviation	1.03726484918122	
Skewness	-0.46649328460001	

Highest Responses = 3.8+1= 4.8 Lowest Responses = 3.8-1=2.8



Looking at the table, it seems like most people gave high ratings when talking about how organizational communication affects employee engagement. The average rating is 3.8, which shows that, but on the other hand, the skewness being negative at -0.46 which means that even if the average response is high still most of the ratings are on the left side of this average which is between 2.8 and 3.8. So based on that H0 is accepted.

H0: there is no effect of Organizational communication on Employee engagement in the UAE

Organizational commitment		
Mean	3.94	
Standard Deviation	0.956396297332346	
Skewness -0.75141694853023		
Highest Responses = 3.94+0.95= 4.89		





Looking at the table, it seems like most people gave high ratings when talking about how organizational commitment affects employee engagement. The average rating is 3.94, which shows that, but on the other hand, the skewness being negative at -0.75 which means that even if the average response is high still most of the ratings are on the left side of this average which is between 2.99 and 3.94. So based on that H0 is accepted.

H0: "there is no effect of Organizational commitment on Employee engagement in the UAE

Organizational support		
Mean	3.82	
Standard Deviation	1.13730795642829	
Skewness	-0.49831735847815	

Highest Responses = 3.82+1.14= 4.96 Lowest Responses = 3.82-1.14=2.68



Looking at the table, it seems like most people gave ratings when talking about how high organizational support affects employee engagement. The average rating is 3.82, which shows that, but on the other hand, the skewness being negative at -0.50 which means that even if the average response is high still most of the ratings are on the left side of this average which is between 2.68 and 3.82. So based on that H0 is accepted.

H0: "there is no effect of Organizational support on Employee engagement in the UAE

Employee engagement		
Mean	3.94	
Standard Deviation	1.05772184916644	
Skewness -0.63094652471335		
Highest Responses = 3.94+1.06= 5		

Lowest Responses = 3.94-1.06=2.88



Looking at the table, it seems like most people gave high ratings when talking about how employee engagement affects organization digital transformation performance. The average rating is 3.94, which shows that, but on the other hand, the skewness being negative at -0.63 which means that even if the average response is high still most of the ratings are on the left side of this average which is between 2.88 and 3.94. So based on that H0 is accepted.

H0: "there is no effect of Employee engagement on Organizational digital transformation performance in the UAE"

	Male	Female
Mean	4.25	1.90
Standard	0.80321932890249	1.9403919623988
Deviation	9	2
Skewness	-	0.3666712486767
	0.49799598391954	4

Male: Highest Responses = 4.25+0.8= 5 Lowest Responses = 4.25-0.8= 3.45 Female: Highest Responses = 1.9+1.94= 3.84 Lowest Responses = 1.9-1.94= 0

Looking at the statistics, it seems like most people gave high ratings when talking about how gender affect the relationship between employee engagement and organization digital transformation performance from the male side which the average is 4.25, but on the other hand, the average responses for female is less than male which is 1.9. But even if the male has high average ratings than the female the skewness in the male being negative at -0.5 but on the other side the skewness in the female being positive at 0.37 which means that most responses for the female is on the right side and most responses for the male is on the lift side. So based on that H1 is accepted.

Figure 2. Statistical Results of Male and Female Employee Engagement





6. CONCLUSION

Male and female employee engagement levels are important in determining many facets of a company's success. Employee engagement is a fundamental factor that can greatly affect organizational performance. Employee engagement - both male and female- can affect the effectiveness of the organization. Engaged employees, regardless of gender, tend to be more productive and perform at higher levels. Their commitment and enthusiasm contribute to increased output and improved overall organizational performance. Diverse perspectives, including those from both male and female employees, foster innovation and creativity within a workforce. Engaged employees are more likely to contribute ideas and collaborate effectively, leading to the development of innovative solutions and products. Higher engagement levels are often linked to increased employee satisfaction and lower turnover rates. Retaining talented employees, both male and female, reduces recruitment and training costs. ensuring organizational stability and performance continuity. Engaged employees are more likely to work collaboratively and contribute positively to team dynamics. A gender-diverse and engaged workforce can benefit from a variety of skills, experiences, and perspectives, leading to improved problem-solving and decision-making. Engaged employees are more likely to provide excellent customer service. Satisfied and motivated employees, regardless of gender, are more likely to go the extra mile to meet customer needs, enhancing overall customer satisfaction and loyalty. High levels of engagement are associated

with better employee well-being, including mental and physical health. A workforce that feels supported and valued is more likely to contribute positively to organizational success. Engaged employees are more likely to respond positively to leadership initiatives. Effective leaders can create a work environment that fosters positive engagement among both male and female employees, leading to improved organizational performance. Engaged employees contribute to the development of a positive organizational culture. A culture that values diversity, inclusivity, and employee well-being can have a profound impact on overall organizational performance. Engaged employees are generally more adaptable to change. In today's rapidly evolving business landscape, organizations with a workforce that embraces change are better positioned for long-term success. The cumulative effect of high engagement levels among both male and female employees can positively impact the financial performance of an organization. Increased productivity, innovation, and customer satisfaction often translate into improved financial outcomes. In conclusion, both male and female employees' engagement is integral to organizational success. A diverse and engaged workforce contributes to a positive workplace culture, enhances performance, and organization for positions the long-term business sustainability in а competitive environment.

REFERENCES

- M. Salameh *et al.*, "The Impact of Project Management Office's Role on Knowledge Management: A Systematic Review Study," *Comput. Integr. Manuf. Syst.*, vol. 28, no. 12, pp. 846–863, 2022, doi: 10.24297/j.cims.2022.12.59.
- [2] F. Shwedeh et al., "SMEs' Innovativeness and Technology Adoption as Downsizing Strategies during COVID-19: The Moderating Role of Financial Sustainability in the Tourism Industry Using Structural Equation Modelling," Sustainability, vol. 14, no. 23, p. 16044, 2022, doi: https://doi.org/10.3390/su142316044.
- [3] S. Salloum *et al.*, "Understanding and Forecasting Chatbot Adoption: An SEM-ANN Methodology," *Migr. Lett.*, vol. 20, no. S11, pp. 652–668, 2023, doi: https://doi.org/10.59670/ml.v20iS11.5717.
- [4] F. Shwedeh, "THE IMPACT OF SMART CITY POLICY TIMELINESS AND TECHNOLOGY READINESS ON SMART CITY PERFORMANCE IN DUBAI: THE MODERATING EFFECT OF FINANCIAL AVAILABILITY," 2021.

- [5] R. Ravikumar et al., "The Impact of Big Data Quality Analytics on Knowledge Management in Healthcare Institutions: Lessons Learned from Big Data's Application within The Healthcare Sector," South East. Eur. J. Public Heal., vol. 5, 2023, doi: https://doi.org/10.56801/seejph.vi.309.
- [6] F. Shwedeh, A. Aburayya, and M. Mansour, "The Impact of Organizational Digital Transformation on Employee Performance: A Study in the UAE," *Migr. Lett.*, vol. 20, no. S10, pp. 1260–1274, 2023, doi: https://doi.org/10.59670/ml.v20iS10.5710.
- [7] B. M. Dahu *et al.*, "The Impact of COVID-19 Lockdowns on Air Quality: A Systematic Review Study," *South East. Eur. J. Public Heal.*, vol. 5, 2022, doi: https://doi.org/10.11576/seejph-5929.
- [8] M. Alkashami *et al.*, "AI different approaches and ANFIS data mining: A novel approach to predicting early employment readiness in middle eastern nations," *Int. J. Data Netw. Sci.*, vol. 7, no. 3, pp. 1267– 1282, 2023, doi: 10.5267/j.ijdns.2023.4.011.
- [9] K. Liu *et al.*, "Exploring the Nexus between Fintech, natural resources, urbanization, and environment sustainability in China: A QARDL study," *Resour. Policy*, vol. 89, p. 104557, 2024, doi: 10.1016/j.resourpol.2023.104557.
- [10] R. Ravikumar *et al.*, "Impact of knowledge sharing on knowledge Acquisition among Higher Education Employees," *Comput. Integr. Manuf. Syst.*, vol. 28, no. 12, pp. 827–845, 2022, doi: 10.24297/j.cims.2022.12.58.
- [11] F. Shwedeh, N. Hami, S. Z. Abu Bakar, F. M. Yamin, and A. Anuar, "The Relationship between Technology Readiness and Smart City Performance in Dubai," J. Adv. Res. Appl. Sci. Eng. Technol., vol. 29, no. 1, pp. 1– 12, 2022, doi: https://doi.org/10.37934/araset.29.1.112.
- [12] F. Shwedeh, S. Malaka, and B. Rwashdeh, "The Moderation Effect of Artificial Intelligent Hackers on the Relationship between Cyber Security Conducts and the Sustainability of Software Protection: A Comprehensive Review," *Migr. Lett.*, vol. 20, no. S9, pp. 1066–1072, 2023, doi: 10.59670/ml.v20iS9.4947.
- [13] S. A. Alimour *et al.*, "The quality traits of artificial intelligence operations in predicting mental healthcare professionals' perceptions: A case study in the psychotherapy division," *J. Auton. Intell.*, vol. 7, no. 4, 2024, doi: 10.32629/jai.v7i4.1438.
- [14] F. Shwedeh, N. Hami, and S. Z. Abu Baker, "Effect of leadership style on policy timeliness and performance of smart city in Dubai: a review," in *Proceedings of the International Conference on Industrial Engineering and Operations Management Dubai, UAE, March 10-12,* 2020, 2020, pp. 917–922.
- [15] A. Aburayya *et al.*, "SEM-machine learning-based model for perusing the adoption of metaverse in higher education in UAE.," *Int. J. Data Netw. Sci.*, vol. 7, no. 2, pp. 667–676, 2023, doi: 10.5267/j.ijdns.2023.3.005.
- [16] F. Shwedeh, T. Aldabbagh, A. Aburayya, and H. Uppilappatta, "The Impact of Harnessing Total Quality Management Studies on the Performance of Smart Applications: A Study in Public and Private Sectors in

the UAE," *Migr. Lett.*, vol. 20, no. S11, pp. 934–959, 2023, doi: https://doi.org/10.59670/ml.v20iS11.5892.

- [17] F. Shwedeh, "Harnessing digital issue in adopting metaverse technology in higher education institutions: Evidence from the United Arab Emirates," *Int. J. Data Netw. Sci.*, vol. 8, no. 1, pp. 489– 504, 2024, doi: 10.5267/j.ijdns.2023.9.007.
- [18] S. Khadragy *et al.*, "Predicting Diabetes in United Arab Emirates Healthcare: Artificial Intelligence and Data Mining Case Study," *South East. Eur. J. Public Heal.*, vol. 5, 2022, doi: https://doi.org/10.56801/seejph.vi.406.
- [19] N. Yas, M. N. I. Elyat, M. Saeed, F. Shwedeh, and S. Lootah, "The Impact of Intellectual Property Rights and the Work Environment on Information Security in the United Arab Emirates," *Kurd. Stud.*, vol. 12, no. 1, pp. 3931–3948, 2024, doi: 10.58262/ks.v12i1.282.
- [20] S. Abdallah *et al.*, "A COVID19 Quality Prediction Model based on IBM Watson Machine Learning and Artificial Intelligence Experiment," *Comput. Integr. Manuf. Syst.*, vol. 28, no. 11, pp. 499–518, 2022, doi: 10.24297/j.cims.2022.11.037.
- [21] F. Shwedeh, N. Hami, and S. Z. Abu Bakar, "Dubai smart city and residence happiness: A conceptual study," *Ann. Rom. Soc. Cell Biol.*, vol. 25, no. 1, pp. 7214–7222, 2021.
- [22] S. Salloum *et al.*, "Sustainability Model for the Continuous Intention to Use Metaverse Technology in Higher Education: A Case Study from Oman," *Sustainability*, vol. 15, no. 6, p. 5257, 2023, doi: 10.3390/su15065257.
- [23] F. Shwedeh *et al.*, "Entrepreneurial innovation among international students in the UAE: Differential role of entrepreneurial education using SEM analysis," *Int. J. Innov. Res. Sci. Stud.*, vol. 6, no. 2, pp. 266–280, 2023, doi: https://doi.org/10.53894/ijirss.v6i2.1328.
- [24] A. El Nokiti, K. Shaalan1, S. Salloum2, A. Aburayya, F. Shwedeh, and B. Shameem3, "Is Blockchain the answer? A qualitative Study on how Blockchain Technology Could be used in the Education Sector to Improve the Quality of Education Services and the Overall Student Experience," *Comput. Integr. Manuf. Syst.*, vol. 28, no. 11, pp. 543–556, 2022, doi: 10.24297/j.cims.2022.11.039.
- [25] S. Khadragy *et al.*, "Predicting Diabetes in United Arab Emirates Healthcare: Artificial Intelligence and Data Mining Case Study," *South East. Eur. J. Public Heal.*, vol. 5, 2022, doi: https://doi.org/10.56801/seejph.vi.406.
- [26] A. A, A. M. A, and et al. Al Ayadeh I, "Evolving a hybrid appointment system for patient scheduling in primary healthcare centres in Dubai: Perceptions of patients and healthcare provider.," *Int. J. Emerg. Technol.*, vol. 11, no. 2, pp. 251–260, 2020.
- [27] A. A. Alsharhan A, Salloum SA, "Technology acceptance drivers for AR smart glasses in the middle east: A quantitative study. International Journal of Data and Network Science.: 193-208. doi:," 10.5267/j.ijdns.2021.9.008, vol. 6, no. 1, 2022, doi: 10.5267/j.ijdns.2021.9.008.
- [28] S. S. Almarzouqi A, Aburayya A, "Determinants predicting the electronic medical record adoption in healthcare: A SEM-Artificial Neural Network

approach. Haldorai A, ed. PLOS ONE," vol. 17, no. 8, 2022, doi: 10.1371/journal.pone.0272735y.

- [29] A. A, A. D, and T. M, "Aburayya A, Alawadhi D, Taryam M. A conceptual framework for implementing TQM in the primary healthcare centers and examining its impact on patient satisfaction. Research.," *Int. J. Adv. Res.*, vol. 7, no. 3, pp. 1047–1065, 2019.
- [30] A. Aburayya, D. Alawadhi, and M. Taryam, "A conceptual framework for implementing TQM in the primary healthcare centers and examining its impact on patient satisfaction," *Int. J. Adv. Res.*, vol. 7, no. 3, pp. 1047–1065, 2019, doi: 10.21474/IJAR01/8735.
- [31] H. Yousuf, S. Salloum, A. Aburayya, M. Al-Emran, and K. Shaalan, "A systematic review of CRYPTDB: Implementation, challenges, and future opportunities," *J. Manag. Inf. Decis. Sci.*, vol. 24, no. Special Issue 1, pp. 1–16, 2021.
- [32] R. Abousamra *et al.*, "Predicting the Intention to Use Google Glass in the Educational Projects: A Hybrid SEM-ML Approach," *Acad. Strateg. Manag. J*, vol. 21, no. S6, pp. 1–13, 2022.
- [33] F. Bu, H. wu, H. A. Mahmoud, H. M. Alzoubi, N. K. Ramazanovna, and Y. Gao, "Do financial inclusion, natural resources and urbanization affect the sustainable environment in emerging economies," *Resour. Policy*, vol. 87, p. 104292, 2023, doi: 10.1016/j.resourpol.2023.104292.
- [34] S. R. AlSuwaidi, M. Alshurideh, B. Al Kurdi, and A. Aburayya, "The main catalysts for collaborave R&D projects in Dubai industrial sector.," in *The Internaonal Conference on Arficial Intelligence and Computer Vision*, 2021, pp. 795–806.
- [35] M. Taryam *et al.*, "(2021). The impact of the covid-19 pandemic on the mental health status of healthcare providers in the primary health care sector in Dubai.," *Linguist*. *Antverp.*, vol. 21, no. 2, pp. 2995–3015, 2021.
- [36] R. S. Al-Maroof, K. Alhumaid, A. Q. Alhamad, A. Aburayya, and S. Salloum, "User acceptance of smart watch for medical purposes: an empirical study," *Futur. Internet*, vol. 13, no. 5, p. 127, 2021, doi: https://doi.org/10.3390/fi13050127.
- [37] B. Li, S. Mousa, J. R. R. Reinoso, H. M. Alzoubi, A. Ali, and A. D. Hoang, "The role of technology innovation, customer retention and business continuity on firm performance after post-pandemic era in China's SMEs," *Econ. Anal. Policy*, vol. 78, pp. 1209–1220, 2023, doi: 10.1016/j.eap.2023.05.004.
- [38] M. Alawadhi *et al.*, "Factors affec?ng medical students' acceptance of the metaverse system in medical training in the United Arab Emirates.," *South East. Eur. J. Public Heal.*, no. Special Volume No. 5, 2022, doi: 10.11576/seejph-5759.
- [39] E. MOUZAEK, N. ALAALI, S. A. I. D. SALLOUM, and A. ABURAYYA, "An empirical investigation of the impact of service quality dimensions on guests satisfaction: A case study of Dubai Hotels," *J. Contemp. Issues Bus. Gov.*, vol. 27, no. 3, pp. 1186–1199, 2021, doi: 10.47750/cibg.2021.27.03.160.
- [40] S. Aljasmi et al., "The Impact of Hospital Demographic Factors on Total Quality Management Implementation: A Case Study of UAE Hospitals," South East. Eur. J. Public Heal., vol. Special Vo, pp. 1–

13, 2022, doi: 10.11576/seejph-5758.

- [41] K. Alaboud *et al.*, "The Quality Application of Deep Learning in Clinical Outcome Predictions Using Electronic Health Record Data: A Systematic Review," *South East. Eur. J. Public Heal.*, vol. Volume XXI, pp. 09– 23, 2023.
- [42] A. Almarzouqi, A. Aburayya, and S. A. Salloum, "Determinants predicting the electronic medical record adoption in healthcare: A SEM-Artificial Neural Network approach," *PLoS One*, vol. 17, no. 8, p. e0272735, 2022, doi: 10.1371/journal.pone.0272735.
- [43] A. Alsharhan, S. A. Salloum, and A. Aburayya, "Using elearning factors to predict student performance in the practice of precision education," *Pt. 2 J. Leg. Ethical Regul. Isses*, vol. 24, no. Special Issue 6, p. 1, 2021.
- [44] S. A. Salloum *et al.*, "Novel machine learning based approach for analysing the adoption of metaverse in medical training: A UAE case study," *Informatics Med. Unlocked*, vol. 42, p. 101354, 2023, doi: 10.1016/j.imu.2023.101354.
- [45] A. Aburayya, A. Marzouqi, I. Iyadeh, A. Albqaeen, and S. Mubarak, "Evolving a Hybrid Appointment System for Patient scheduling in Primary Healthcare Centres in Dubai: Perceptions of Patients and Healthcare Providers," Int. J. Emerg. Technol., vol. 11, no. 2, pp. 251-260, 2020, doi: https://d1wqtxts1xzle7.cloudfront.net/63548291/E volving_a_Hybrid_Appointment_System_for_Patient_S cheduling_in_Primary_Healthcare_Centres_in_Dubai_ Perce20200606-109135-jr0twjlibre.pdf?1591473666=&response-contentdisposition=inline%3B+filename%3DEvolving_a_Hy brid_Appointment_System_for.pdf&Expires=170653 4986&Signature=fseyo0TYWnISW0FY7G-RRIPvulgk3Nhl4GQy1MX4ui1KaP0gqqbdiXNK3Sr8lR 9-4VLiREFosotAVq6iUMrQJR~uTD4SmuHD0HTciDTyJ

4vLiREFosotAvq6iUMrQjR~uTD4SmuHD0HTciDTyj ckgxu9fKEGEtEom~kuTiXbsP5sdqvyKot6GYo4cczXYnV8ADfj~fMJH~r9QBmeUoETJKaJfuAa.

- [46] I. Shahin, A. B. Nassif, A. Elnagar, S. Gamal, S. A. Salloum, and A. Aburayya, "NEUROFEEDBACK INTERVENTIONS FOR SPEECH AND LANGUAGE IMPAIRMENT: A SYSTEMATIC REVIEW," J. Manag. Inf. Decis. Sci., vol. 24, no. Special Issue 1, pp. 1–30, 2021.
- [47] A. Alsharhan, S. Salloum, and A. Aburayya, "Technology acceptance drivers for AR smart glasses in the middle east: A quantitative study," *Int. J. Data Netw. Sci.*, vol. 6, no. 1, pp. 193–208, 2022, doi: 10.5267/j.ijdns.2021.9.008.
- [48] I. Al Eideh *et al.*, "Examination of the Effect of TQM Implementation on Innovation Performance: An Assessment Study In the UAE Healthcare Sector," *Acad. Strateg. Manag. J.*, vol. 21, no. Special Isuue 4, pp. 1–17, 2022.
- [49] B. M. Dahu, S. Khan, A. A. Salman, Y. M. Andraws, A. Abo Daken, and A. Aburayya, "Epidemiological Analysis of Vaccination Strategies and Demographic Patterns In COVID-19 Cases in The Midwest Region of The United States," *Natl. J. Community Med.*, vol. 14, no. 1, pp. 62– 71, 2024, doi: 10.55489/njcm.150120243461.
- [50] S. A. Salloum, N. M. N. AlAhbabi, M. Habes, A. Aburayya, and I. Akour, "Predicting the Intention to Use Social

Media Sites: A Hybrid SEM-Machine Learning Approach," in *Advanced Machine Learning Technologies and Applications: Proceedings of AMLTA* 2021, Springer International Publishing, 2021, pp. 324–334.

- [51] R. S. Al-Maroof, K. Alhumaid, A. Q. Alhamad, A. Aburayya, and S. Salloum, "User acceptance of smart watch for medical purposes: an empirical study," *Futur. Internet*, vol. 13, no. 5, p. 127, 2021.
- [52] A. Almarzouqi, A. Aburayya, and S. A. Salloum, "Determinants of intention to use medical smartwatch-based dual-stage SEM-ANN analysis," *Informatics Med. Unlocked*, vol. 28, pp. 1–12, 2022, doi: 10.1016/j.imu.2022.100859.
- [53] A. Jasri, S. Aljasmi, and A. Aburayya, "Employing PLS-SEM Analysis to Examine the Mediation Role of Artificial Intelligence in Physician Experience. An Empirical Study of the Effect of the Medical Smartwatch on Physician Satisfaction," South East. Eur. J. Public Heal., vol. Special Vo, 2022, doi:

https://doi.org/10.56801/seejph.vi.407.

- [54] Q. Hassan *et al.*, "The renewable energy role in the global energy Transformations," *Renew. Energy Focus*, vol. 48, p. 100545, 2024, doi: https://doi.org/10.1016/j.ref.2024.100545.
- [55] M. A. Almaiah *et al.*, "Factors affecting the adoption of digital information technologies in higher education: An empirical study," *Electronics*, vol. 11, no. 21, p. 3572, 2022, doi: 10.3390/electronics11213572.
- [56] M. Taryam *et al.*, "Factors Affecting the Uptake of COVID-19 Vaccine among Dubai Airport's Professionals," *South East. Eur. J. Public Heal.*, vol. 17, no. 2, pp. 1–14, 2022, doi: https://doi.org/10.11576/seejph-5091.
- [57] C. Leng *et al.*, "An empirical assessment of the effect of natural resources and financial technologies on sustainable development in resource abundant developing countries: Evidence using MMQR estimation," *Resour. Policy*, vol. 89, p. 104555, 2024, doi: 10.1016/j.resourpol.2023.104555.