# The Requirements of Digital Transformation and Its Economic Applications To Achieve a Competitive Advantage in Major Sports Clubs In the Arab Republic of Egypt

#### Assistant Prof. Dr. / Reham Amin Hamza Shehab

Assistant Professor, Department of Sports Administration, Faculty of Physical Education for Girls, Alexandria University.

### **Research Problem and Importance:**

Under accelerated developments of information and communication technology, many administrative directions emerged towards adopting digital transformation.

**Tomas M. Siebel (2019), George Westernman (2014)** defines digital transformation as a phenomenon arising from using information and communication technologies and new digital techniques synchronically to produce a lot of information to use in decision making and strategic planning. (59: 26), (47: 32)

The researcher believes that digital transformation he researcher believes that the digital transformation is changing the structure of the institution and building its strategy on digital technology and the technical capabilities it possesses to achieve value for its customers.

**UNESCO (2018) and Sara Grand (2017)** defines digital skills as along chain of skills of using digital appliances, communications and works applications to reach and administrate information and establishing a digital content. (41: 2), (58: 5).

Communication International Federation (2018) indicates that digital skills are subdivided to 3 levels: basic, average and advanced skills. (23: 18)

**Giacomo and Antonio (2018)** and **Ovidiu, Peter (2013)** indicate that things internet links infinite number of things via a network with availing the relevant technical support. (48: 34), (56: 167).

**Bruce Sinclair** (2017) indicates that computers ability to knowledge by using things internet-collected data enables us to follow up and count things. (45: 16)

**Kevin L. Jackson and Scott (2018)** define cloud computerization the set of computerized sources and systems on demand via internet able to avail some of integrated computer services. (54: 12)

**Financial Crises of (2008)** affected the confidence between governments and companies, also weak and unsafe information technologies and users' increasing fear from lack of privacy and safety resulted in the so called blue kitchen technique. (44: 13).

**David, Christophe** (2019) defines blocks chain as distributing data to a great number of points spread on internet which is computers entrusted with verifying true data and operations (46: 23).

Book of **Jared Tate**, **Andrew Knapp** (2019) mentions that blocks chain consists of 4 main elements represented in: block, information. Margin and time print. (50: 27)

**Joel Gurin (2014)** and **Rob Kitchen (2014)** define open data as publishing digital data on internet in an automatic legible format. (52: 18), (57: 17)

**Julian Singh** (2017) indicates that for data to be open many levels shall be considered: legal opening, technical opening and commercial opening. (53: 44).

Beshir Arnous (2007) and Srour Ali Srour (2005) defines artificial intelligence as a part of accounting science looking for developed programming methods for carrying out works and

conclusions similar to methods alluding intelligence to human. (10: 9), (39: 26)

Mohit Sharma (2018), Khalil Abo Koura (2014) define systems of automating robot processes as non-intertwined applications requiring no technical integration with other system. (55: 11), (37: 19)

Ramadan Elmarouf (2011), Abdelsabour Elmasry (2011) and Hind Hamid (2010) define ecommerce as all business made electronically via internet. (34:34), (2:24), (21:17)

**Jim Work George Brand (2020)** mentions that applying ecommerce shall depend on three factors: "E. markets, E. data exchange and internet". (51: 57)

As Gil Gildner, Anya Gildner (2019) and Youssef Abo Fara (2007) define E. marketing as some efforts exerted by the company to inform purchasers of its products and services and communicating with them via internet. (49: 14), (42: 27)

Egypt adopter a serious direction to be a digital community as a basis of achieving integrated and permanent development, at the first step of transferring to digital economy in Egypt, the first Egyptian communication satellite, Tiba, was developed (1). (60), (68), (61: 2), (62:1).

In the sports field, there are many new attempts to attend digital transfer, as minister of youth and sports, in coordination with officials of Microsoft Egypt looked into binary cooperation in the field of digital transformation. (63: 1)

Also El Ahly Club adopted the digital transformation strategy incorporated under its future plan to transfer all services provided to members electronically, also Heliopolis Club and Kuwait National Bank – Egypt signed a cooperation protocol to support and activate digital transformation system, also Smouha Club declared a protocol of cooperation with Egypt telecom to develop the internet infra-structure.

(64: 2), (65: 1), (66: 1), (67: 2).

The researcher concluded a **Pilot Study** for some supreme management officials at clubs whose number reached 6 subjects to identify the status quo and procedures taken by the supreme management to make development needed for applying digital transformation. **The interview results proved** the supreme management's awareness of the importance of adopting digital transformation strategies.

Also the researcher concludes a second pilot study for a sample of sports clubs' employees, whose number reached (11) subjects to identify the fact of digital transformation inside sports clubs, as the results proved establishing an interactive website, the main club's data bases are being updated, the club's infrastructure is being developed and protocols of cooperating with banks are being signed to support digital transformation projects.

Also through looking into the previous studies results such as results of Nawal Abdalla (2019) (30), Hanin Abdelasalam(2019) (18), Faleh Abbas (2019) (14), Tawil Osama (2017) (40), Dina Mohamed Adel (2016) (12), digital transformation contributes to providing high quality digital governmental services, good planning for transfer to e administration in sports department is lacking.

As study of Omar Saleh (2018) (33) and Khloud Bent Salem (2019) (24) recommends that there should be an infrastructure to enable profiting from E. government services and availing human resources to develop the same and financial resources to avail systems required for concluding digital transformation.

**Through the researcher** open personal interviews, the survey study and the results and recommendations of previous studies, the researcher concluded the importance of activating digital transformation system in sports clubs and adopting modern communication systems to transfer all services provided to members electronically in order to achieve the satisfaction of the

beneficiaries, and to support the competitiveness of sports clubs. Researcher to conduct the current research and its title:

This made the researcher carry out this research titled:

"The Requirements of Digital Transformation and Its Economic Applications to Achieve a Competitive Advantage in Major Sports Clubs in the Arab Republic of Egypt"

## The Research Objective:

The research aims at identifying The Requirements of Digital Transformation and Its Economic Applications to Achieve a Competitive Advantage in Major Sports Clubs in the Arab Republic of Egypt via identifying:

- Digital transformation requirements: "supreme management support, digital skills, digital techniques"
- Digital transformation economic applications: "E. commerce, E. marketing"

The Research Procedures:

The research method:

The survey descriptive method was used as suitable for the research nature.

The research community:

The research community consisted of (9) great clubs from Cairo and Alexandria.

The research sample:

Table (1) Numerical Description of the Research Community Groups Subjects and the Pilot and the Main Research Sample

Administrative levels	Total research	Sample of codifying questionnaire	Removed forms	Main Search Sample		
Administrative levels	community	form		Number Percentages  83 83.83 %  18 64 %  89 72.35 %  188 76.113 %		
Supreme management : clubs boards' members	99	11	5	83	83.83 %	
Middle management: executive managers and sports activity mangers	25	6	3	18	64 %	
Executive management: sports specialists	123	21	13	89	72.35 %	
Total	247	38	21	188		
Percentage	100 %	15.38 %	8.502 %	76.113 %	76.113 %	

## **Data Collection Tools:**

#### Questionnaire form designed by the researcher

The researcher followed the following steps to design the questionnaire form: - Results of the interview, the first and second exploratory study. - Access to the scientific references and the results of previous studies. Through this, the researcher was able to develop the factors and dimensions of the questionnaire, as it included two main factors, first factor of (3) dimensions, and second factor of (2) dimensions.

#### Questionnaire form scientific coefficients:

Calculating validity questionnaire form scientific coefficient:

Table (2) Correlation Coefficient between Questionnaire Dimensions and Factors (N= 38)

			First	factor		Overtionnaine	
F	actors and dimensions	First factor	Second	Third	Total factors	Questionnaire total degree	
		First factor	factor	factor	degree	total degree	
First	First dimension		0.585	0.785	0.745	0.839	
factor	Second dimension			0.617	0.737	0.877	

	Third dimension				0.759	0.851
	Total degree					0.845
			Total			
F	Factors and dimensions		Second dimension	Total fa	ctors degree	questionnaire degree
G 1	First dimension		0.791		0.534	0.749
Second factor	Second dimension				0.609	0.830
Tactor	Total degree					0.839

Rg value (0, 05.36) = 0.304

Table (2) clarifies a statistical significant correlation at significant level (0.05) between the degree of every factor and the whole degree to prove questionnaire internal consistency.

## Calculating questionnaire reliability coefficient:

Table (3) Questionnaire Reliability by Split Half and Cronbach's Alpha

	Split	half	
Factors and Dimensions	Spearman Brown	Guttman	Cronbach's Alpha
First dimension: supreme management support	0.716	0.763	0.776
Second dimension: digital skills	0.789	0.817	0.749
Third dimensions: digital technique	0.745	0.736	0.705
First factor: requirements of digital transformation to achieve a competitive advantage at sports clubs	0.821	0.755	0.781
First dimension: E. commerce	0.715	0.873	0.775
Second dimension: E. marketing	0.763	0.851	0.723
Second factor: economic applications of digital transformation to achieve a competitive advantage at sports clubs	0.746	0.757	0.806
Total questionnaire degree	0.721	0.918	0.881

From table (3) it is clear that reliability coefficient by half split ranged between (0.715) and (0.918) and Cronbach's Alpha reliability coefficient ranged between (0.705) and (0.881) proving that the researched questionnaire has a high reliability coefficient.

### **Application of the questionnaire form:**

The questionnaire form was applied in its final form to the basic research sample, which amounted to (188) single, during the period from (6/12/2020) to (18/8/2020).

#### **Statistical treatments:**

Repetitions, percentage, spearman's rank correlation coefficient, split half for Spearman Brown and Guttman, Cronbach's Alpha reliability coefficient, outweighed percentage, arithmetic mean out weighted by weights, chi square for independent samples (cross tabulation), chi square for one sample, (*Chi Square Goodness of Fit Test*).

#### **Discussing results:**

Table (4) First Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (First Dimension: Supreme Management Support)

S	Statement content	Departments	Agreeing	To a certain degree	Disagreeing	Out weighted percentage	Average	Attitude	Chi square
1		Th	e supreme m	anagement su	ipports digital ti	ransformation v	ia :		
		Supreme management= 83	66	9	8	89.96	2.70	agreeing	
1/1	Looking into new	Middle management= 16	9	2	5	75.00	2.25	to a certain degree	7.49
1/1	techniques	Executive management= 89	61	8	20	82.02	2.46	agreeing	
		All= 188	136	19	33	84.93	2.55	agreeing	130.29
1/2	Readiness for bearing	Supreme management= 83	62	13	8	88.35	2.65	agreeing	15.15 *

s	Statement content	Departments	Agreeing	To a certain degree	Disagreeing	Out weighted percentage	Average	Attitude	Chi square
	digital transformation application costs	Middle management= 16	8	2	6	70.83	2.13	to a certain degree	
		Executive management= 89	54	7	28	76.40	2.29	to a certain degree	
		All= 188	124	22	42	81.21	2.44	agreeing	93.23
		Supreme management= 83	64	11	8	89.16	2.67	agreeing	
1/2	Training employees and providing them with all	Middle management= 16	9	1	6	72.92	2.19	to a certain degree	15.72 *
1/3	skills neede for attending technique	Executive management= 89	58	4	27	78.28	2.35	agreeing	
	permanently	All= 188	131	16	41	82.62	2.48	agreeing	116.76
		Supreme management= 83	67	8	8	90.36	2.71	agreeing	
	Planning for dealing	Middle management= 16	10	1	5	77.08	2.31	to a certain degree	13.18 *
1/4	with restrictions of using new techniques	Executive management= 89	51	13	25	76.40	2.29	to a certain degree	
		All= 188	128	22	38	82.62	2.48	agreeing	104.21
		Supreme management= 83	59	12	12	85.54	2.57	agreeing	
	The club's organizational structure agrees with digital transformation application	Middle management= 16	6	3	7	64.58	1.94	to a certain degree	14.58 *
2		Executive management= 89	44	12	33	70.79	2.12	to a certain degree	
	ирричич	All= 188	109	27	52	76.77	2.30	to a certain degree	56.37
		Supreme management= 83	60	15	8	87.55	2.63	Agreeing	
	There is a specialized committee or unit for	Middle management= 16	7	3	6	68.75	2.06	to a certain degree	15.41 *
3	applying digital transformation as planned	Executive management= 89	48	12	29	73.78	2.21	to a certain degree	
	pinineu	All= 188	115	30	43	79.43	2.38	agreeing	66.90
		Supreme management= 83	56	4	23	79.92	2.40	agreeing	
	The club documents	Middle management= 16	7	2	7	66.67	2.00	to a certain degree	8.82
4	services and transforms paper forms to	Executive management= 89	45	14	30	72.28	2.17	to a certain degree	
		All= 188	108	20	60	75.18	2.26	to a certain degree	61.96
	Information systems used by the club are integrated and associated with all the	Supreme management= 83	51	8	24	77.51	2.33	to a certain degree	
5		Middle management= 16	6	2	8	62.50	1.88	to a certain degree	5.72

S	Statement content	Departments	Agreeing	To a certain degree	Disagreeing	Out weighted percentage	Average	Attitude	Chi square
	club's units	Executive management= 89	41	12	36	68.54	2.06	to a certain degree	
		All= 188	98	22	68	71.99	2.16	to a certain degree	46.77
		Supreme management= 83	60	2	21	82.33	2.47	agreeing	
	Consulting investment authorities and experts to give information	Middle management= 16	5	3	8	60.42	1.81	to a certain degree	15.35 *
6	about developing information technology fields	Executive management= 89	46	9	34	71.16	2.13	to a certain degree	
	Helas	All= 188	111	14	63	75.18	2.26	to a certain degree	75.07
	The club has a system	Supreme management= 83	50	9	24	77.11	2.31	to a certain degree	
7	for evaluating employees performance	Middle management= 16	5	2	9	58.33	1.75	to a certain degree	5.43
,	indicating clear norms of their ability to use information technology	Executive management= 89	49	12	28	74.53	2.24	to a certain degree	
	applications	All= 188	104	23	61	74.29	2.23	to a certain degree	52.41

Chi square value (0, 05, 4) = 9,488, Chi square value (0, 05, 2) = 5,991

Outweighed arithmetic mean: disagreeing (1: 1.66), to a certain degree (1.67: 2.33), agreeing (2.34: 3)

**From table (4)** agreement of research sample groups on statements number (1/1, 4, 5, 7) was clear as the outweighed percentage of the whole sample ranged between (71.99: 84.93) as chi square ranged between (5.43: 8.82)

Results of study of Doaa Elhasban, Weaam Elhayek (2017) (13) indicate the importance of appointing an authority responsible for supervising and following up digital transformation.

Saad Shalaby and Abdellatif Bokhary (2008) (35) confirm that clubs delaying in using new technologies will lag behind other clubs.

Also the above table results proved difference between opinions of the research sample groups on statements number (1/2, 1/3, 1/4, 2, 3, 6) at level (0.05) as chi square ranged between (13.18\*: 15.72\*) with outweighed percentage (75.18: 82.62).

Results of study of Mahmoud Ibrahim and Bassma Haddad (2018) (25), and Ashour Abdelkarim (2010) (9) found that digital transformation depends on compiling a clear strategy by some field expert.

The results of the study of **Ashour Abdul Karim** (2010) (9) indicate that the development of the level of employees mainly requires a review of their competence, by integrating the human resources of the institutions within the programs of raising the qualification level, with the aim of compatibility with the developments and the reality of these institutions in light of the digital transformation strategy.

The researcher concludes that the sports club management must develop plans and strategies that support the digital transformation system, the more accurately and clearly formulated, the greater the success rate of its implementation.

Table (5) First Factor Results: Digital Transformation Requirements to Achieve a Competitive Advantage at Clubs (Second Dimension: Digital Skills) (A- Main Skills)

s	Statement content	Departments Departments	Agreeing	To a certain degree	Disagreeing	Out weighted percentage	Average	Attitude	Chi square
8	the club's employees	have the main digital sl	kills represented	in:					
		Supreme management= 83	68	7	8	90.76	2.72	agreeing	
8/1	Using keyboard	Middle management= 16	10	2	4	79.17	2.38	agreeing	3.63
0/1	esing Rejiouru	Executive management= 89	71	8	10	89.51	2.69	agreeing	
ī		All= 188	149	17	22	89.18	2.68	agreeing	178.61
		Supreme management= 83	66	8	9	89.56	2.69	agreeing	
8/2	Administrating	Middle management= 16	9	1	6	72.92	2.19	to a certain degree	8.34
0/2	files in computers	Executive management= 89	69	9	11	88.39	2.65	agreeing	
		All= 188	144	18	26	87.59	2.63	agreeing	158.85
		Supreme management= 83	61	11	11	86.75	2.60	agreeing	
8/3	Protecting personal	Middle management= 16	8	3	5	72.92	2.19	to a certain degree	4.02
0/3	and private data	Executive management= 89	62	12	15	84.26	2.53	agreeing	
		All= 188	131	26	31	84.40	2.53	agreeing	111.97
	8/4 Using email —	Supreme management= 83	65	8	10	88.76	2.66	agreeing	
8/4		Middle management= 16	8	1	7	68.75	2.06	to a certain degree	12.31 *
	g	Executive management= 89	70	9	10	89.14	2.67	agreeing	
		All= 188	143	18	27	87.23	2.62	agreeing	155.12
	Browsing ,	Supreme management= 83	67	6	10	89.56	2.69	agreeing	
8/5	research and assorting data,	Middle management= 16	9	1	6	72.92	2.19	to a certain degree	9.54 *
	information and legal content	Executive management= 89	68	11	10	88.39	2.65	agreeing	
		All= 188	144	18	26	87.59	2.63	agreeing	100,00
		Supreme management= 83	65	10	8	89.56	2.69	agreeing	10.59*
8/6	Communicating and working in a	Middle management= 16	8	2	6	70.83	2.13	to a certain degree	
	team through digital techniques	Executive management= 89	71	6	12	88.76	2.66	agreeing	
	uigitai teciniiques	All= 188	144	18	26	87.59	2.63	agreeing	100,00
		Supreme management= 83	66	8	9	89.56	2.69	Agreeing	٦,٨٩
8/7	Filling an internet	Middle management= 16	8	3	5	72.92	2.19	to a certain degree	
	form	Executive management= 89	67	11	11	87.64	2.63	agreeing	
		All= 188	141	22	25	87.23	2.62	agreeing	157,90

**From table (5)** there are significant differences between the research groups response on statements number (8/4, 8/5, 8/6) as chi ranged between (9.54\*: 12.31\*) with outweighed percentage (87.23: 87.59).

**Ahmed Ghoneim (2004)** states the main skills to be enjoyed by employees to achieve digital transformation including information techniques and computers (7: 73).

The sample opinions agreed upon statements number (8/1, 8/2, 8/3, 8/7)

**Mohamed Fathy (2008)** refers to efficiencies, knowledge and skills needed by employees enabling them to use advanced knowledge and technology in fulfilling their tasks (27: 14)

The researcher believes that basic digital skills related to the use of digital devices and Internet applications have become an essential component of a new set of skills that must be available to club employees in the digital era.

Table (6) Results of First Factor: Requirements of Digital Transfer to Achieve a Competitive Advantages at Clubs) (second Dimension: Digital Skills)

(B- Average Skills)

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
the club's	employees has	the following	average digital sl	kills				_	8
	Agreeing	2.47	82.33	18	8	57	Supreme management= 83		
5.45	to a certain degree	2.06	68.75	6	3	7	Middle management= 16	Evaluating and managing data,	8/8
	agreeing	2.55	85.02	16	8	65	Executive management= 89	information and digital contents	0/0
108.84	agreeing	2.47	82.45	40	19	129	All= 188		
	to a certain degree	2.27	75.50	23	15	45	Supreme management= 83		
7.38	to a certain degree	1.88	62.50	8	2	6	Middle management= 16	Digital data	8/9
	Agreeing	2.45	81.65	18	13	58	Executive management= 89	design	0/9
54.27	to a certain degree	2.32	77.30	49	30	109	All= 188		
	to a certain degree	2.34	77.91	21	13	49	Supreme management= 83		
5.43	to a certain degree	1.88	62.50	8	2	6	Middle management= 16	Data analysis	8/10
	Agreeing	2.38	79.40	20	15	54	Executive management= 89	Data analysis	0/10
54.27	to a certain degree	2.32	77.30	49	30	109	All= 188		
	Agreeing	2.36	78.41	22	9	52	Supreme management= 83		
6.81	to a certain degree	1.88	62.50	7	4	5	Middle management= 16	Digital	8/11
	Agreeing	2.38	79.40	23	9	57	Executive management= 89	marketing	0/11
70.26	to a certain degree	2.33	77.66	52	22	114	All= 188		
	Agreeing	2.36	78.41	20	13	50	Supreme management= 83		
8.67	to a certain degree	1.69	56.25	9	3	4	Middle management= 16	Solving technical problems	8/12
	to a certain degree	2.28	76.03	27	10	52	Executive management= 89		

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
52.13	to a certain degree	2.27	75.53	56	26	106	All= 188		

**From table (6)** the research subjects responses agreed upon all statements as chi square ranged between (5.43: 8.67) with an outweighed percentage (77.66: 82.45)

**International communication association (2018)** mentions that average skills enabling us to use digital techniques are more profitable and feasible (23: 7).

The researcher believes that with the increase of knowledge and skills that the beneficiary acquires from the services in the clubs, the club's inability to match the benefactor increases, which requires more qualification and training for club employees.

Table (7) First Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (Second Dimension: Digital Skills)

(C- Advanced Skills)

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
the club'	s employees hav	e the followin	ng advanced dig	ital skills :	=	_			8
	to a certain degree	2.19	73.09	25	17	41	Supreme management= 83		
12.48 *	disagreeing	1.63	54.17	9	4	3	Middle management= 16	Computerized	8/13
	to a certain degree	1.88	62.55	32	6	41	Executive management= 89	programming	0/13
28.44	to a certain degree	1.99	66.49	66	27	85	All= 188		
	to a certain degree	2.07	69.08	29	19	35	Supreme management= 83		
6.29	disagreeing	1.56	52.08	10	3	3	Middle management= 16	Networks	8/14
	to a certain degree	2.02	67.42	37	13	39	Executive management= 89	management	0/14
18.33	to a certain degree	2.01	66.84	76	35	77	All= 188		
	to a certain degree	2.19	73.09	26	15	42	Supreme management= 83		
6.64	disagreeing	1.63	54.17	10	2	4	Middle management= 16	Developing digital	8/15
	to a certain degree	1.97	65.54	39	14	36	Executive management= 89	content	0/13
24.39	to a certain degree	2.04	67.91	75	31	82	All= 188		
	to a certain degree	2.06	68.67	31	16	36	Supreme management= 83		
2.35	to a certain degree	1.69	56.25	9	3	4	Middle management= 16	Ability to create in	8/16
	to a certain degree	2.01	67.04	36	16	37	Executive management= 89	using digital techniques	8/10
18.33	to a certain degree	2.01	66.84	76	35	77	All= 188		

From table from table (7) it is clear that the research sample groups response to all statements

agreed with an outweighed percentage between (66.48 : 67.91) and chi square between (2.35 : 6.64) with a dominant attitude disagreeing and to a certain degree upon that employees have no digital skills like managing networks, developing digital content.

But for statement number (8/13) related to enjoying digital skills by employees such as computerized programming, opinions of supreme and executive administration were to a certain degree

Communication international association (2018) mentions that advanced skills are skills needed by specialists in information technology and communication such as computerized programming and networks management (23: 9).

The researcher believes that digital skills are constantly evolving with changes in technology, allowing policymakers and digital skills providers to ensure the continued relevance and up-to-datedness of their programs and training curricula.

Table (8) First Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (Third Dimension: Digital Techniques) (A- Things Internet)

					mici nei	<u>,                                      </u>			
Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	s
	agreeing	2.65	88.35	11	7	65	Supreme management= 83		
8.36	to a certain degree	2.13	70.83	6	2	8	Middle management= 16	The club has updated and high	9
	agreeing	2.46	82.02	17	14	58	Executive management= 89	speed internet lines	
112.73	agreeing	2.52	83.87	34	23	131	All= 188		
	agreeing	2.75	91.57	8	5	70	Supreme management= 83		
15.36 *	to a certain degree	2.19	72.92	6	1	9	Middle management= 16	There is a link	10
	agreeing	2.43	80.90	18	15	56	Executive management= 89	between internet and intranet	
126.20	agreeing	2.55	84.93	32	21	135	All= 188		
	agreeing	2.70	89.96	9	7	67	Supreme management= 83		
9.62 *	to a certain degree	2.25	75.00	5	2	9	Middle management= 16	There are strong anti-hacking	11
	agreeing	2.40	80.15	19	15	55	Executive management= 89	programs	
112.41	agreeing	2.52	84.04	33	24	131	All= 188		
	agreeing	2.73	91.16	8	6	69	Supreme management= 83		
13.70 *	to a certain degree	2.31	77.08	5	1	10	Middle management= 16	The network can be technically flexible	12
	agreeing	2.36	78.65	21	15	53	Executive management= 89	technically nexible	
116.21	agreeing	2.52	84.04	34	22	132	All= 188		
			the	e club has a deta	iled data ba	se about :			13

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	s
	agreeing	2.71	90.36	8	8	67	Supreme management= 83		
5.68	to a certain degree	2.31	77.08	5	1	10	Middle management= 16	beneficiaries	13/1
	agreeing	2.55	85.02	16	8	65	Executive management= 89		
151.80	agreeing	2.60	86.70	29	17	142	All= 188		
	agreeing	2.66	88.76	9	10	64	Supreme management= 83		
6.44	to a certain degree	2.19	72.92	5	3	8	Middle management= 16	suppliers	13/2
	agreeing	2.48	82.77	18	10	61	Executive management= 89		
119.05	agreeing	2.54	84.57	32	23	133	All= 188		
	agreeing	2.70	89.96	8	9	66	Supreme management= 83		
11.04 *	to a certain degree	2.06	68.75	6	3	7	Middle management= 16	Club's employees	13/3
	agreeing	2.48	82.77	19	8	62	Executive management= 89		
126.59	agreeing	2.54	84.75	33	20	135	All= 188		
	agreeing	2.61	87.15	10	12	61	Supreme management= 83		
10.85 *	to a certain degree	1.94	64.58	7	3	6	Middle management= 16	Olymbic leagues and	13/4
	agreeing	2.44	81.27	20	10	59	Executive management= 89	employees	
97.16	agreeing	2.47	82.45	37	25	126	All= 188		

**From table (8)**, it is clear that opinions of the research sample groups agreed upon statements number (9, 13/1, 13/2) as the outweighed percentage reached (83.87 : 86.70) with chi square between (5.68 : 8.36)

Results of Hytham Fayez (2016) (17), Ahlam Alfiki (2014) (4) agreed upon the availability of needed infra-structure helping clubs to activate modern electronic services.

But for statements number (10, 11, 12, 13/3, 13/4) the research sample groups' opinion s varied between agreeing and to a certain degree.

Results of study of Tawil Osama (2017) (40) proves lack of security systems of protecting data of sports departments deals.

The researcher concludes that the activation of the Internet of things will contribute to the expansion of better services in sports clubs, which requires the availability of regular, high-speed Internet services that connect the departments to each other them within the club, as well as allow communication with other parties concerned and not concerned with sports.

Table (9) First Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (Third Dimension: Digital Techniques) (B- Cloud computing)

					ompati	<i>0</i> ′			
Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	s
	agreeing	2.66	88.76	9	10	64	Supreme management=	<i>m</i>	
11.79 *	to a certain degree	2.25	75.00	5	2	9	Middle management= 16	The club uses cloud computerization services and applications supplied	14
	to a certain degree	2.28	76.03	23	18	48	Executive management= 89	by service providers such as Google, Microsoft and Amazon	17
81.84	agreeing	2.45	81.56	37	30	121	All= 188		
	agreeing	2.52	83.94	12	16	55	Supreme management= 83		
10.45 *	to a certain degree	1.94	64.58	7	3	6	Middle management=	Using cloud	
	to a certain degree	2.19	73.03	28	16	45	Executive management= 89	computerization agrees with the club's activities	15
46.10	to a certain degree	2.31	77.13	47	35	106	All= 188		
	agreeing	2.58	85.94	11	13	59	Supreme management= 83		
10.31 *	to a certain degree	2.00	66.67	7	2	7	Middle management= 16	Cloud computerization are used to reach applications, resources,	16
	to a certain degree	2.27	75.66	25	15	49	Executive management= 89	data and information on time	10
66.90	agreeing	2.38	79.43	43	30	115	All= 188		
	agreeing	2.63	87.55	9	13	61	Supreme management= 83		
14.44 *	to a certain degree	2.06	68.75	6	3	7	Middle management=	Cloud computerization develops mechanism and means of handling	17
	to a certain degree	2.19	73.3	29	14	46	Executive management= 89	and sharing information	17
64.64	agreeing	2.37	79.08	44	30	114	All= 188		
	agreeing	2.64	87.95	10	10	63	Supreme management= 83		
20.47 *	to a certain degree	1.94	64.58	7	3	6	Middle management= 16	Information safety	
	to a certain degree	2.10	70.04	32	16	41	Executive management= 89	factors are available for data and files uploaded to the cloud	18
56.82	to a certain degree	2.32	77.48	49	29	110	All= 188		

From table (9), there are statistical significant differences between research groups opinions on all statements as chi square ranged between (10.31\*: 20.47\*) and outweighed percentage (77.13: 18.56)

Results of study of Safaa Soliman (2019) (36), Alia Abdelmoniem (2014) (8) regarding service providers verifying quality of used network, applications and freedom fron any security gaps.

**Ahmed Mahgoub (2015) (6)** recommends studying service providers in details and identifying security protection supplied by service providers.

**The researcher** concludes that the use of cloud computing technology in clubs contributes to providing workers with access to computer resources and programs without being bound by time and place limits, and ease of communication between different departments, with the possibility of using them in cloud storage.

Table (10) First Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (Third Dimension: Digital Techniques) (C – Blocks Chain "Blue Kitchen")

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	s
	agreeing	2.69	89.56	8	10	65	Supreme management= 83		
10.58 *	to a certain degree	2.19	72.92	4	5	7	Middle management= 16	There are employees specialized in	19
	agreeing	2.44	81.27	19	12	58	Executive management= 89	information security and protection	
108.65	agreeing	2.53	84.22	31	27	130	All= 188		
	agreeing	2.64	87.95	10	10	63	Supreme management= 83		
12.07 *	to a certain degree	2.00	66.67	6	6	6	Middle management= 16	Specialists use blocks chain to	20
	to a certain degree	2.33	77.53	22	51	51	Executive management= 89	discover and describe hacking	20
79.19	agreeing	2.44	81.21	38	120	120	All= 188		
	agreeing	2.69	89.56	8	65	65	Supreme management= 83		
14.45 *	to a certain degree	2.13	70.83	4	6	6	Middle management= 16	There are specialists in observing hacking at time of	21
	agreeing	2.37	79.03	20	53	53	Executive management= 89	occurrence and repairing any resulting defect	
90.4	agreeing	2.49	82.98	32	124	124	All= 188	U	

From table (10) there are significant differences between the research group responses on all statements as chi square ranged between (10.58\*: 14.45\*) with an outweighed percentage (81.21: 84.22)

**Fatma Elsebaey (2019), Ehab Khalifa (2018) (22)** mention that blue kitchen techniques has 2 main norms, non-centralism and international transparency in managing all deals (15: 4)

The researcher considers the need to work on holding introductory courses for workers in sports clubs to learn about blockchain technology and how to deal with this technology and to urge its application and adoption because of its benefits in preserving data integrity and protecting

information.

Table (11) First Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (Third Dimension: Digital Techniques) (D – Open Governmental Data)

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
	agreeing	2.53	84.34	13	13	57	Supreme management= 83	Open governmental data are used in developing	
7.42	to a certain degree	2.06	68.75	7	1	8	Middle management= 16	the club's administrative performance via	22
	agreeing	2.35	78.28	21	16	52	Executive management= 89	providing the content with club's service	
71.63	agreeing	2.40	80.14	41	30	117	All= 188	related data	
	agreeing	2.52	83.94	12	16	55	Supreme management= 83		
8.22	to a certain degree	2.00	66.67	7	2	7	Middle management= 16	The club profits from open governmental data	23
	to a certain degree	2.28	76.03	24	16	49	Executive management= 89	in statistical analysis for a certain subject	23
56.56	agreeing	2.36	78.72	43	34	111	All= 188		
	agreeing	2.63	87.55	11	9	63	Supreme management= 83	Technical and	
7.46	to a certain degree	2.06	86.75	6	3	7	Middle management= 16	technical and technological structure of sites availing open data	24
	agreeing	2.47	82.40	17	13	59	Executive management= 89	are not enough	24
105.79	agreeing	2.51	83.51	34	25	129	All= 188		
	agreeing	2.54	84.74	14	10	59	Supreme management= 83		
6.79	to a certain degree	2.00	66.67	6	4	6	Middle management= 16	Legal restrictions and confident information	25
	agreeing	2.42	80.52	20	12	57	Executive management= 89	limit profiting from and reuse	23
85.83	agreeing	2.44	81.21	40	26	122	All= 188		
								The club profits from data provided by	26
	agreeing	2.65	88.35	12	5	66	Supreme management= 83		
8.28	to a certain degree	2.13	70.83	6	2	8	Middle management= 16	Ministries and	26/1
	agreeing	2.51	83.52	16	12	61	Executive management= 89	authorities site	20/1
127.03	agreeing	2.54	84.557	34	19	135	All= 188		
	agreeing	2.61	87.15	11	10	62	Supreme management= 83		
10.78 *	sometimes	1.94	64.58	7	3	6	Middle management= 16	Statistical central	26/2
	agreeing	2.49	83.15	15	15	59	Executive management= 89	authority	20/2
99.27	agreeing	2.50	83.33	33	28	127	All= 188		
13.45 *	agreeing	2.66	88.76	13	2	68	Supreme management= 83	Sports leagues sites	26/3
10.40	to a certain degree	2.13	70.83	6	2	8	Middle management= 16	Spor is reagues sites	20/3

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
	agreeing	2.54	84.64	14	13	62	Executive management= 89		
137.88	agreeing	2.56	85.28	33	17	138	All= 188		
	agreeing	2.54	84.74	15	8	60	Supreme management= 83		
6.32	to a certain degree	2.06	68.75	6	3	7	Middle management= 16	01	2614
	agreeing	2.51	83.52	15	14	60	Executive management= 89	Olympic committees sites	26/4
100.03	agreeing	2.48	82.80	36	25	127	All= 188		

From table (11) there are differences between research groups responses to statements numbers (26/2, 26/3) as chi square reached (10.87\*), (13.45\*) and outweighed percentage (83.33), (85.28) respectively.

As the sample opinions agreed upon statements numbers (22, 23, 24, 25, 26/1, 26/4) as chi square ranged between (6.32 : 8.28) and outweighed percentage (78.72 : 84.57)

The results of **Khulud Bint Salem Bin Saleh** (2019) (24) indicate that open governmental data must be integrated, compiled at the highest level of accuracy, and available to the largest number of users and for the broadest range of purposes without distinction of anyone and without registration conditions, and is not subject to any copyright, patents or trademarks, with easy and quick access to it in a timely manner to preserve its value.

**Haroun Abdalla (2009) (19)** mentions that creating a data base is the basis of governmental entrance to internet to provide people and investors with the latest information.

**The researcher** believes that it is necessary to develop and upgrade government databases and establish central repositories for information, considering a specific policy for informational security in accordance to international standards in this regard.

Table (12) First Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (Third Dimension: Digital Techniques) (E- Artificial Intelligence)

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
								Artificial intelligence is used by clubs in	27
	agreeing	2.65	88.35	10	9	64	Supreme management= 83		
8.39	to a certain degree	2.06	68.75	6	3	7	Middle management= 16	Discovering talents and expecting and developing talented to	27/1
	agreeing	2.47	82.40	17	13	59	Executive management= 89	make sports champions	
109.03	agreeing	2.52	83.87	33	25	130	All= 188		
14.50 *	agreeing	2.65	88.35	11	7	65	Supreme management= 83	Developing and improving athletes	27/2

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
	to a certain degree	2.06	68.75	7	1	8	Middle management= 16	performance level by analyzing as great data of players and teams	
	agreeing	2.44	81.27	16	18	55	Executive management= 89	performance as possible	
102.68	agreeing	2.50	83.33	34	26	128	All= 188		
	agreeing	2.42	80.72	18	12	53	Supreme management= 83		
9.86 *	to a certain degree	1.88	62.50	8	2	6	Middle management= 16	Shooting scenes with angle 360° for sports	
	to a certain degree	2.19	73.03	25	22	42	Executive management= 89	activities details of participants' faces ,movements and acts	27/3
36.79	to a certain degree	2.27	75.53	51	36	101	All= 188		
	agreeing	2.41	80.32	21	7	55	Supreme management= 83		
15.22 *	to a certain degree	1.75	58.33	9	2	5	Middle management= 16	Producing press reports and videos	
	to a certain degree	2.29	76.40	21	21	47	Executive management= 89	clarifying facts occurred during different activities	27/4
50.56	to a certain degree	2.30	76.60	51	30	107	All= 188		

From table (12) there are differences between the research groups responses to all statements except for statement number (37/1) as chi ranged between (9.86\*: 15.22\*) with an outweighed percentage (75.53: 83.33).

The results of **Salma Kunde** (2018) (38) study indicate that the sports field has benefited greatly from information technology, represented by the emergence of new techniques to explain sports movements, the development of presentation methods, and the increase in the use of computers in reaching modern methods that enable a successfully manage of sport activity.

Studies of Salma Konda (2018) (38), Abla Zaian (2016) (3) indicates that sports field profited from information technology via emergence of new techniques of illustrating sports activities and developing display methods.

**Faisal Elmala (2019)** mentions that international trials proved the ability of artificial intelligence to develop and improve sports performance level via analyzing as most great data as possible of players and teams. (69)

**The researcher** believes that it is necessary to activate the digital transformation system by introducing artificial intelligence applications within sports clubs by developing a future plan to electronically transfer all the services provided by the club, thus achieving a competitive advantage for sports clubs.

Table (13) First Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (Third Dimension: Digital Techniques) (F- Robotic Process Automation)

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	s
		The	club uses robo	t operations to ac	dd function	al advantages	represented in		28
	agreeing	2.71	90.36	9	6	68	Supreme management= 83		
8.93	to a certain degree	2.13	70.83	6	2	8	Middle management= 16	Managing payrolls and compensations	28/1
	agreeing	2.48	82.77	19	8	62	Executive management= 89	registration	
138.43	agreeing	2.55	85.11	34	16	138	All= 188		
	agreeing	2.64	87.95	11	8	64	Supreme management= 83		
6.07	to a certain degree	2.19	72.92	5	3	8	Middle management= 16	Managing the club's employees data	28/2
	agreeing	2.43	80.90	20	11	58	Executive management= 89	employees data	
110.09	agreeing	2.50	83.33	36	22	130	All= 188		
	agreeing	2.66	88.76	10	8	65	Supreme management= 83		
13.20 *	to a certain degree	2.06	68.75	6	3	7	Middle management= 16	Identifying credit and	28/3
	to a certain degree	2.31	77.15	22	17	50	Executive management= 89	debit accounts	20/3
85.06	agreeing	2.45	81.56	38	28	122	All= 188		
	agreeing	2.61	87.15	11	10	62	Supreme management= 83		
16.08 *	to a certain degree	1.88	62.50	7	4	5	Middle management= 16	Looking into the	28/4
	to a certain degree	2.25	74.91	24	19	46	Executive management= 89	members' complaints	20/4
61.29	agreeing	2.38	79.26	42	33	113	All= 188		
	agreeing	2.69	89.56	9	8	66	Supreme management= 83		
13.59 *	to a certain degree	2.06	68.75	7	1	8	Middle management= 16	Managing the club's members subscription	28/5
	agreeing	2.37	79.03	21	14	54	Executive management= 89	renewal	
103.73	agreeing	2.48	82.80	37	23	128	All= 188		

**From table (13)** and the figure there are differences between the research groups' responses to statements numbers (28/3, 28/4, 28/5) as chi square ranged between (13.20\*: 16.08\*) and outweighed percentage ranged between (79.26: 82.80).

Also, the research sample opinion agreed on statements numbers (28/1, 28/2) as chi square reached (8.93), (6.07) with an outweighed percentage (85.11), (83.33) respectively.

Mohit Sharma (2018) states that robotic process automation (RPA) solutions are typically

implemented in organizations that typically depend on human resources extensively for large-scale, interactive, and repetitive operations. The key processes best suited to robotic process automation tend to be extensively based on data entry, comparisons and validation. (55:10).

**Abdelarahman Elour (2018)** stated that to guarantee successful execution of robot operations automation through profiting from automatic control increase, the organizations shall identify and redesign their current operations. (1: 4)

**The researcher** believes that additional robotic process automations can be used within sports clubs to conduct sensitive operations without human intervention at small costs, and to restructure human resources with work requirements, including evaluation work and rewards for workers in the affected areas.

Table (14) Second Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (First Dimension: E. Commerce)

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	s
								Using ecommerce by the club plays a great role in	29
	agreeing	2.70	89.96	8	9	66	Supreme management= 83		
10.83 *	agreeing	2.38	79.17	4	2	10	Middle management= 16	Achieving a competitive advantage for	29/1
	agreeing	2.45	81.65	13	23	53	Executive management= 89	beneficiaries service	29/1
105.97	agreeing	2.55	85.11	25	34	129	All= 188		
	agreeing	2.69	89.56	8	10	65	Supreme management= 83		
17.87 *	to a certain degree	2.13	70.83	6	2	8	Middle management= 16	Facilitating commercial	29/2
	agreeing	2.44	81.27	12	26	51	Executive management= 89	deals	25/2
91.19	agreeing	2.52	84.04	26	38	124	All= 188		
	agreeing	2.63	87.55	10	11	62	Supreme management= 83		
12.82 *	to a certain degree	1.94	64.58	6	5	5	Middle management= 16	Reducing the club's	29/3
	agreeing	2.44	81.27	15	20	54	Executive management= 89	expenses	29/3
81.65	agreeing	2.48	82.62	31	36	121	All= 188		
	agreeing	2.48	82.73	16	11	56	Supreme management= 83	The club provides e.	
13.94 *	to a certain degree	1.69	56.25	8	5	3	Middle management= 16	payment service to facilitate payment and	30
	agreeing	2.37	79.03	19	18	52	Executive management= 89	reducing cash collection corruption	30
56.56	agreeing	2.36	78.72	43	34	111	All= 188	corruption	
13,75 *	agreeing	2.64	87.95	10	10	63	Supreme management= 83	There is an attitude towards mechanizing	31
13./5 *	to a certain degree	1.88	62.50	7	4	5	Middle management= 16	joining championships and academies to	31

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
	agreeing	2.42	80.52	18	16	55	Executive management= 89	facilitate counting practices and creating	
87.33	agreeing	2.47	82.27	35	30	123	All= 188	good data bases	
	agreeing	2.59	86.35	11	12	60	Supreme management= 83	The club registers sports	
14.71 *	to a certain degree	1.88	62.50	6	6	4	Middle management= 16	organizations and obtains registration codes as per	32
	to a certain degree	2.31	77.15	20	21	48	Executive management= 89	international specifications of	32
58.29	agreeing	2.40	79.96	37	39	112	All= 188	organizations and playgrounds	
	agreeing	2.59	86.35	13	8	62	Supreme management= 83		
14.27 *	to a certain degree	2.06	68.75	5	5	6	Middle management= 16	Creating a digital data	
	to a certain degree	2.28	76.03	21	22	46	Executive management= 89	base according to which organizations, their place and types are selected	33
63.20	agreeing	2.40	79.96	39	35	114	All= 188	and types are selected	
	agreeing	2.46	81.93	17	11	55	Supreme management= 83	E. control via system	
11.75 *	to a certain degree	1.88	62.50	7	4	5	Middle management= 16	disallowing registration unless legally ,	24
	to a certain degree	2.27	75.66	20	25	44	Executive management= 89	accordingly pinpointing and dealing with	34
41.02	to a certain degree	2.32	77.30	44	40	104	All= 188	violations	
								Digital transformation supports the club administrative review via:	35
	agreeing	2.71	90.39	8	8	67	Supreme management= 83		
7.13	to a certain degree	2.31	77.08	4	3	9	Middle management= 16	Rationalizing	35/1
	agreeing	2.46	82.02	17	14	58	Executive management= 89	administrative decisions	33/1
121.93	agreeing	2.56	85.25	29	25	134	All= 188		
	agreeing	2.71	90.36	8	8	67	Supreme management= 83		
12.30 *	to a certain degree	2.25	75.00	4	4	8	Middle management= 16	Supporting internal	35/2
	agreeing	2.36	78.65	20	17	52	Executive management= 89	control system	33/2
99.14	agreeing	2.51	83.51	32	29	127	All= 188		
	agreeing	2.69	89.56	8	10	65	Supreme management= 83		
12.22 *	to a certain degree	2.19	72.92	4	5	7	Middle management= 16	Verifying observing the	25/2
	agreeing	2.36	78.65	19	19	51	Executive management= 89	planned administrative policies	35/3
87.20	agreeing	2.49	82.98	31	34	123	All= 188		
	agreeing	2.70	89.96	8	9	66	Supreme management= 83		
10.31 *	to a certain degree	2.25	75.00	4	4	8	Middle management= 16	Verifying the financial reports true information	35/4
	agreeing	2.93	79.78	18	18	53	Executive management= 89		

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	s
99.07	agreeing	2.52	83.87	30	31	127	All= 188		
	agreeing	2.63	87.55	10	11	62	Supreme management= 83		
12.24 *	sometimes	2.00	66.67	6	4	6	Middle management= 16	Evaluating the club' s	35/5
	sometimes	2.33	77.53	20	20	49	Executive management= 89	employees performance	33/3
70.67	agreeing	2.43	81.03	36	35	117	All= 188		
								E. accounting systems suitable data about	36
	agreeing	2.67	89.16	9	9	65	Supreme management= 83		
11.82 *	to a certain degree	2.06	68.75	5	5	6	Middle management= 16	The net club's profit	36/1
	agreeing	2.44	81.27	18	14	57	Executive management= 89	The let club's profit	30/1
102.30	agreeing	2.51	83.69	32	28	128	All= 188		
	agreeing	2.69	89.56	9	8	66	Supreme management= 83		
13.54 *	to a certain degree	2.00	66.67	6	4	6	Middle management= 16	Average investment	36/2
	agreeing	2.40	80.15	19	15	55	Executive management= 89	return	30/2
99.46	agreeing	2.49	83.16	34	27	127	All= 188		
	agreeing	2.65	88.35	10	9	64	Supreme management= 83		
14.57 *	to a certain degree	1.88	62.50	7	4	5	Middle management= 16	Declared liquid money	36/3
	agreeing	2.44	81.27	17	16	56	Executive management= 89	percentage	30/3
93.20	agreeing	2.48	82.80	34	29	125	All= 188		

**From table (14)** there are significant differences the research sample groups' responses for all the dimensions statements as chi square ranged between (10.31\* : 17.87\*) and outweighed percentage ranged between (77.30 : 85.11), except for statement number (35/1) as chi square reached (7.13).

Results of study of Omar Khalaf (2019) (32), Ahmed Adam (2014) (5) indicate that using information technology in administrative business is the aim of all organization to achieve the competitive advantage.

**Nigm Aboud Nigm (2004)** states e. control advantages, as permanent control is achieved instead of periodic control; and by time, reduces the importance of control depending on inputs, processes or activities in the interest of increasing results assurance (31 : 247).

The researcher concludes that the shift towards electronic commerce has become a necessary and vital matter, and therefore club administrations should bear this in mind in setting the club's marketing strategies, in order to reduce advertising and advertising costs, and facilitate the beneficiaries' acquaintance with the specifications of the services provided by the club, thus

achieving a competitive advantage among different sports clubs.

Table (15) Second Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs

(Second Dimension: E. Marketing) (A- The Club' Website)

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
	agreeing	2.69	89.56	8	10	65	Supreme management= 83		
4.31	to a certain degree	2.31	77.08	4	3	9	Middle management= 16	The club has a website in Arabic and English	37
	agreeing	2.55	85.02	13	14	62	Executive management= 89	to facilitate dealing with and access to	
128.76	agreeing	2.59	86.35	25	27	136	All= 188		
	agreeing	2.71	90.63	8	8	67	Supreme management= 83		
6.20	to a certain degree	2.31	77.08	4	3	9	Middle management= 16	The club's website is	38
	agreeing	2.51	83.52	15	14	60	Executive management= 89	characterized by easy use	
128.76	agreeing	2.58	85.99	27	25	136	All= 188		
	agreeing	2.65	88.35	8	13	62	Supreme management= 83		
6.47	to a certain degree	2.19	72.92	5	3	8	Middle management= 16	The club's page includes a description	39
	agreeing	2.46	82.02	17	14	58	Executive management= 89	of services and activities provided with	
102.17	agreeing	2.52	84.04	30	30	128	All= 188	pictures	
	agreeing	2.66	88.76	8	12	63	Supreme management= 83		
9.17	to a certain degree	2.06	68.75	6	3	7	Middle management= 16		40
	agreeing	2.52	83.90	15	13	61	Executive management= 89	The club tops the first search engine pages	40
11.78	agreeing	2.54	84.75	29	28	131	All= 188		
	agreeing	2.66	88.76	9	10	64	Supreme management= 83		
12.30 *	to a certain degree	2.00	66.67	7	2	7	Middle management= 16	The club updates	41
	agreeing	2.46	82.02	16	16	57	Executive management= 89	information periodically on website	
102.30	agreeing	2.51	83.69	32	28	128	All= 188		
	agreeing	2.70	89.96	8	9	66	Supreme management= 83		
11.55 *	to a certain degree	2.13	70.83	6	2	8	Middle management= 16	Words used on the club's website are	42
	agreeing	2.42	80.25	18	16	55	Executive management= 89	studied carefully by a specialized department	
105.52	agreeing	2.52	83.87	32	27	129	All= 188	•	
	agreeing	2.69	89.56	8	10	65	Supreme management= 83		
14.14 *	to a certain degree	1.94	64.58	7	3	6	Middle management= 16	The club has many specialists of	43
	agreeing	2.49	83.15	15	15	59	Executive management= 89	developing the club's website	
108.55	agreeing	2.53	84.40	30	28	130	All= 188		

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
	agreeing	2.63	87.55	10	11	62	Supreme management= 83	TO C.	
19.78 *	to a certain degree	1.75	58.33	9	2	5	Middle management= 16	There are financial appropriations allocated for searching and developing the website	44
	agreeing	2.36	78.65	19	19	51	Executive management= 89		
73.57	agreeing	2.43	80.85	38	32	118	All= 188	website	
	agreeing	2.66	88.76	8	12	63	Supreme management= 83	There is an icon of	
15.49 *	to a certain degree	1.75	58.33	7	3	5	Middle management= 16	direct communication via the website to	45
	agreeing	2.40	80.15	17	19	53	Executive management= 89	provide the direct support to the club's beneficiaries	
82.42	agreeing	2.46	82.09	32	34	121	All= 188		
	agreeing	2.54	84.74	11	16	56	Supreme management= 83		
17.60 *	to a certain degree	1.69	56.25	9	3	4	Middle management= 16	Enabling beneficiaries to update their data electronically via the club's website	46
	agreeing	2.40	80.15	16	21	52	Executive management= 89		
58.38	agreeing	2.40	80.14	36	40	112	All= 188		
	agreeing	2.66	88.76	9	10	64	Supreme management= 83	The club focuses on	
15.94 *	to a certain degree	1.81	60.42	8	3	5	Middle management= 16	preparing the page followers , number of	47
	agreeing	2.46	82.02	19	10	60	Executive management= 89	visits and causes of their increase or	
106.67	agreeing	2.49	83.16	36	23	129	All= 188	decrease	
	agreeing	2.58	85.94	11	13	59	Supreme management= 83		
17.19 *	to a certain degree	1.69	56.25	9	3	4	Middle management= 16	Matches tickets are offered on the club's	
	agreeing	2.45	81.65	17	15	57	Executive management= 89	website in conformity with the event	48
78.97	agreeing	2.44	81.38	37	31	120	All= 188	importance and preparing the expected visitors	

**From table (15)** there are research samples groups' opinions agreement on statements numbers (37, 38, 39, 40) as chi square reached (4.31 : 9.17) with an outweighed percentage (84.04 : 86.35).

Results of study of Zahef Mohamed (2018) (43) indicate sports organizations' keenness to availing a website and allocating an enough budget to develop e. marketing

**Mohamed Ramadan** (2006) clarifies that e. marketing provides the profit of investing and managing time for beneficiaries via quick searching for activities and services (28: 126).

Also from the above table, it is clear that the research sample opinions disagree on statements number (41: 48) as chi square reached (11.55\*: 19.78\*) with an outweighed percentage (70.85: 84.40)

The results of the study of **Saad Ahmed Shalaby and Abd Al-Taif Bukhara (2008)** (35) indicate that most German clubs take into account the design of their web pages to ensure the management and marketing of their services to various target groups via the Internet.

Results of study of Haitham Fayez (2016) (17) proves no budget allocated for e. marketing and

discouraging using new e. marketing means for sports activities.

**The researcher** concludes that the application of electronic marketing to sports clubs requires the availability of specialized human resources with the skills and qualifications that enable them to develop the club's website, with the allocation of a sufficient budget to develop its marketing activity.

Table (16) Second Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs

(Second Dimension: E. Marketing) (B- the Club's E. Mail)

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
	agreeing	2.58	85.94	12	11	60	Supreme management= 83		
11.11 *	to a certain degree	2.00	66.67	7	2	7	Middle management= 16	The club has mail addresses to be used	49
	to a certain degree	2.33	77.53	20	20	49	Executive management= 89	in correspondences	49
68.37	agreeing	2.41	80.32	39	33	116	All= 188		
	agreeing	2.54	84.74	13	12	58	Supreme management= 83	Approving the email	
12.97 *	to a certain degree	1.88	62.50	8	2	6	Middle management= 16	as an official method of correspondences to	50
	to a certain degree	2.29	76.40	21	21	47	Executive management= 89	get rid of documentary cycle	30
56.31	agreeing	2.37	78.90	42	35	111	All= 188	documentary cycle	
	agreeing	2.57	85.54	14	8	61	Supreme management= 83		
12.69 *	to a certain degree	1.94	64.58	7	3	6	Middle management= 16	The club uses the email to answer the	51
	agreeing	2.35	78.28	19	20	50	Executive management= 89	beneficiaries questions	51
71.31	agreeing	2.41	80.352	40	31	117	All= 188	questions	
	agreeing	2.65	88.35	9	11	63	Supreme management= 83		
17.56 *	to a certain degree	1.81	60.42	8	3	5	Middle management= 16	The beneficiaries are	52
	agreeing	2.35	78.28	20	18	51	Executive management= 89	answered quickly to save time and effort	32
76.16	agreeing	2.44	81.21	37	32	119	All= 188		
	agreeing	2.53	84.34	11	17	55	Supreme management= 83		
17.10 *	to a certain degree	1.75	58.33	9	2	5	Middle management= 16	There is a team specialized in	53
	to a certain degree	2.22	74.16	23	23	43	Executive management= 89	answering the beneficiaries'	55
38.95	to a certain degree	2.32	77.30	43	42	103	All= 188	questions via email	
	agreeing	2.61	87.15	10	12	61	Supreme management= 83		
14.95 *	to a certain degree	1.94	64.58	7	3	6	Middle management= 16	Marketing fliers are sent to the club's	54
	to a certain degree	2.24	74.53	24	20	45	Executive management= 89	beneficiaries via email	
58.54	agreeing	2.38	79.26	41	35	112	All= 188		

From table (16), there are significant differences between responses of all the research sample

groups as chi square reached (11.11\*: 17.56\*) with an outweighed percentage (77.30: 81.21).

Study of Hind Elghanem (2014) (20) states that the ability of dealing with beneficiaries via email is one of the most important things introduced by knowledge and organizations digital transformation.

The researcher believes that the ability to deal with beneficiaries via e-mail and social networking services is one of the most important things that knowledge and digital transformation can provide to sports clubs in the field of receiving and responding to beneficiaries' inquiries and questions.

**Table (17) Second Dimension Result: E. Marketing (C- Applications of Smart Phones and Social Media)** 

		(	o 12pp11ew	nons of Sin		5 662262 15 0 6 5	11.100.100)		
Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
	agreeing	2.49	83.13	13	16	54	Supreme management= 83	The club has smart	
8.99	to a certain degree	1.94	64.58	7	3	6	Middle management= 16	phone applications helping beneficiaries	55
	to a certain degree	2.25	74.91	22	23	44	Executive management= 89	to communicate permanently with	33
40.89	to a certain degree	2.33	77.66	42	42	104	All= 188	the club	
	agreeing	2.73	91.16	8	6	69	Supreme management= 83		
5.42	to a certain degree	2.31	77.08	5	1	10	Middle management= 16	The club uses social media to advertise	56
	agreeing	2.63	87.64	13	7	69	Executive management= 89	services provided to beneficiaries	30
175.45	agreeing	2.65	88.30	26	14	148	All= 188	beneficiaries	
	agreeing	2.69	89.56	10	6	67	Supreme management= 83	The club studies the	
10.35 *	to a certain degree	2.19	82.92	6	1	9	Middle management= 16	beneficiaries e. comments to know	57
	agreeing	2.46	82.02	17	14	58	Executive management= 89	the offered services advantages and	31
122.95	agreeing	2.54	84.57	33	21	134	All= 188	disadvantages	
	agreeing	2.72	90.76	8	7	68	Supreme management= 83		
8.09	to a certain degree	2.25	75.00	5	2	9	Middle management= 16	Answering e. comments may give	58
	agreeing	2.55	85.02	13	14	62	Executive management= 89	beneficiaries good impression	30
139.54	agreeing	2.60	86.70	26	23	139	All= 188		
	agreeing	2.48	82.73	15	13	55	Supreme management= 83	The club allows	
5.32	to a certain degree	2.00	66.67	6	4	6	Middle management= 16	using sports facilities such as	59
	agreeing	2.46	82.02	16	16	57	Executive management= 89	halls and basins and leasing the same via	39
73.41	agreeing	2.43	81.03	37	33	118	All= 188	smart applications	
13.06 *	agreeing	2.64	87.95	8	14	61	Supreme management= 83	The club enhances its promotional	60
13.00	to a certain degree	2.06	68.75	7	1	8	Middle management= 16	campaigns via face book through	00

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	s
	agreeing	2.58	86.14	12	13	64	Executive management= 89	supporting by pictures and videos	
118.41	agreeing	2.56	85.46	27	28	133	All= 188		
	agreeing	2.53	84.34	12	15	56	Supreme management= 83		
8.85	to a certain degree	2.00	66.67	7	2	7	Middle management= 16	The club has a system of sending	61
	agreeing	2.53	84.27	13	16	60	Executive management= 89	SMS on smart phones	01
87.14	agreeing	2.48	82.80	32	33	123	All= 188		

From table (17) the research sample opinions agree upon statements numbers (55, 56, 58, 59, 61) as chi square ranged between (5.32 : 8.85) with an outweighed percentage (77.66 : 88.30) Study of Moustafa Kawal (2018) (39) indicates the importance of using the phone application in attracting clients as they enable the organization to increase its works and reduce commercial costs.

Foad Bougnana (2008) (16) mentions the importance of using email and SMS.

**Also table proves the research group's opinion disagreement on the statements number (57, 60)** as chi square reached (10.35\*), (13.06\*) with an outweighed percentage (84.75), (85.46) respectively.

**Results of study of Mariam Nariman (2012) (26)** prove that social media marketing is very important for consumer in pre purchase stage as many service information are available.

The results of the study of **Mariam Nariman Nomar** (2012) (26) indicate that marketing through social networking sites such as Facebook is of great importance to the consumer in the pre-purchase stage, where there is a lot of information available about services, their characteristics, features and prices.

The researcher believes that social networking sites have become a means accessible to various groups of society, as these sites have multiplied and are distinguished by their availability and permanent adhesion to the beneficiaries, and they are of great importance for sports clubs because of their effective role in appealing to the beneficiaries of the services provided by sports clubs.

Table (18) Second Factor Results: Digital Transformation Requirements to Achieve the Best Competitive Advantage at Clubs (Second Dimension: E. Marketing)

(D- E. Newspapers and digital transmission stages)

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	S
	agreeing	2.60	86.75	10	13	60	Supreme management= 83		
7.14	to a certain degree	2.13	70.83	6	2	8	Middle management= 16	The club has a you tube channel to transmit	62
	agreeing	2.57	85.77	12	14	63	Executive management= 89	pictures and videos about the club's	02
111.78	agreeing	2.55	84.93	28	29	131	All= 188	activities	
8.51	agreeing	2.52	83.94	13	14	56	Supreme management= 83	The club contracts with	63

Chi square	Attitude	Average	Out weighted percentage	Disagreeing	To a certain degree	Agreeing	Departments	Statement content	s
	to a certain degree	1.88	62.50	7	4	5	Middle management= 16	e. newspapers and magazines as a method	
	agreeing	2.39	79.78	19	16	54	Executive management= 89	of propaganda and advertisement	
65.76	agreeing	2.40	80.14	39	34	115	All= 188		
	agreeing	2.61	87.15	10	12	61	Supreme management= 83	The club contracts with	
17.97 *	to a certain degree	1.81	60.42	7	5	4	Middle management= 16	digital transmission stages to display events	64
	agreeing	2.45	81.65	29	18	51	Executive management= 89	and matches against financial return	04
62.04	agreeing	2.47	82.27	46	35	116	All= 188	imanciai ictui n	
	agreeing	2.63	87.55	9	13	61	Supreme management= 83	The club shall compile	
17.78*	to a certain degree	1.75	58.33	8	4	4	Middle management= 16	special conditions with digital transmission stages when covering	65
	agreeing	2.38	79.40	18	19	52	Executive management= 89	and transmitting matches and	0.5
70.67	agreeing	2.44	81.21	35	36	117	All= 188	championships	

**From table (18)**, it is clear that the research sample agree upon statements number (62, 63) as chi square reached (7.14), (8.51) with outweighed percentage (84.93) (80.14) respectively.

Study of Bosaina Ghadiri (2015) (11) indicates the effect of e advertising on beneficiaries under the increasing number of internet users with focusing on advertisement content and credibility.

**Also the research sample opinions** disagreed on statements numbers (64, 65) as chi square reached (17.97\*), (17.78\*) with outweighed percentage (82.27), (81.21)

The united company of advertising services established watch at forum which declared reaching the exclusive digital rights at Egyptian series for 4 years, which enables the forum users to enjoy all goals, matches and summaries (70).

The researcher believes that sports club administrations need to pay attention to enhancing their financial returns by attracting digital broadcasting platforms towards obtaining the rights to broadcast their sporting events, especially in light of the decline of traditional broadcasting channels.

#### **Conclusions:**

- The supreme management supports digital transformation via looking into new techniques by documenting services and trying to transform paper forms to electronic forms.
- Employees are neither trained nor provide with skills needed for attending technology permanently.
- The club's organizational structure agrees with digital transformation application requirements.
- Lack of specialized committee or unit for applying digital transformation as planned.
- Employees have no advanced digital skills such as networks management, ability to create in using digital techniques, developing digital content and computerized programming.
- Weak protection programs related to anti hacking

- The club profits from open governmental data in developing the club's performance data.
- Artificial intelligence is, to a certain degree, at clubs to develop the athletes' level.
- Ecommerce is weakly used in facilitating commercial deals.
- The club has a web site in English and Arabic and the club's page has a service and activities description.
- Law financial appropriations allocated for research and developing website.

#### **Recommendations:**

- Finishing the national project of digital transformation considered as an important tool of achieving permanent development, developing governmental work development, providing e services and applying digital economy.
- Developing legislative frames supporting digital transformation and trying to make Egypt distinctive on great data centers manufacturing chart to be a territorial centre for data centers and information banks.
- Compiling an integrated strategy to develop human resources in conformity with achieving permanent and integrated community development in conformity with the aimed digital transformation to attend international changes and new updates.
- Clubs should adopt a clear strategy towards a digital transformation and preparing a time table for applying transformation to guarantee execution in conformity with Egypt view 2030.
- Respond to beneficiaries via developing participation channels, and activating beneficiaries, participation in developing and improving the club's decisions, policies and services.

## **Bibliography**

First:	Ara	bic l	Bib.	liograj	phy
--------	-----	-------	------	---------	-----

- 2 Abdelsabour Abdelkawy Elmasry (2010)
- Ecommerce and Law , Dar Al Elom Publishers , Cairo

The effect of using some technologies in

developing decision making level for handball referees, unpublished master thesis, institute of physical and sports science and techniques, al

gibali bonama university, Algergria

4 Ahlam Elfekky (2014)

its Role in Developing Sports Management, an
Unpublished Master Thesis, Faculty of Post Graduate Studies for Physical Education, Sudan University for Science and Technology.

Information and Communication Technology and

5	Ahmed Adam Ahmed Mohamed (2014)	:	Information Technology Role in Improving Sports Management Performance in Some Governmental and Nongovernmental Organizations a Thesis Published on Magazine of Faculty of Physical Education, January issue, Sudan University for Science and Technology.
6	Ahmed Mahgoub Mousa (2015)	:	The Effect of Computerization on Achieving E-government Purposes, Faculty of Post Graduate Studies, Al Nilin University, Sudan.
7	Ahmed Mohamed Ghounim (2004)	:	E-management, Fields of Present and Expectation of Future, the Modern Library, Saudi Arabia
8	Ala Abdelmonim Abdalla (2014)	:	Creating and developing applications to avail the same as a cloud service, faculty of commuter science and information techniques, Al Nilin University, Sudan
9	Ashour Abdelkerim (2010)	:	The role e. Management in rationalizing public service in the US and Algeria, un published master thesis , faculty of law and political science , Mantori University , Algeria
10	Beshir Arnous (2007)	:	Artificial Intelligence, Alsahab Publishers, Cairo
11	Bosaina Ghadiri (2015)	:	E. Advertisement in Directing the Consumer's Behavior, Faculty of Economic Science, Commercial Science and Facilitation Science, Al Arabi Ben Mehidi University, Algeria
12	Dina Mohamed Adel Abdelaziz (2016)	:	The Role of e. Management in Achieving the Competitive Advantage at Clubs, a thesis published on Al Elmia Magazine of Physical Education, Faculty of Physical Education for Girls, Alexandria University, volume 5 issue 5.
13	Doaa Elhosban, Weam Elhayek (2017)	:	Challenges and Opportunities Affecting E. Government Success in Jordon, a thesis published on science, Engineering and Information Technology Magazine, first volume, issue 2, National Research Center, Palestine.
14	Faleh Abbas Lotfy (2019)	:	The effect of artificial intelligence on auditing quality of accounting auditing offices in Jordon , unpublished master thesis, faculty of scientific research deanship and post graduate studies , Girsh university , Jordon
15	Fatma Elsabiy (2019)	:	Studying strategies of attitudes of applying blue kitchen technique in Gulf states, al Bahrain center for strategic and international studies, Bahrain

marketing communication fact in

16	Foad Abougnana (2008)	:	service organizations, unpublished master thesis, faculty of facilitation sciences, Warkala university, Algeria
17	Haitham Fayez Mahmoud (2016)	:	E. Sports Marketing Strategy at Sports Clubs in Egypt. unpublished doctorate thesis, Faculty of Physical Education, Alexandria University
18	Hanin Abdelsalam Abou Oud, Aseel Ahmed Eldarat, Aly Mohamed Abdelshahid (2019)	:	Intelligence Things Internet in the Field of Health Care, issue 15, Academic Research Magazine
19	Haroun Abdalla Eissa (2009)	:	Designing a System for Human Development in States in the Frame of the E. Government's Project by Using Open Resources, unpublished doctorate thesis, Faculty of Computer Science and Information Technology, Al Nilin University, Sudan
20	Hend Abdelrahman Elghanim (2014)	:	Behaviors of Supplicating Information Related to E. Information Bases for Teaching Staff Members, Islamic University of Imam Mohamed Ben Saoud, thesis published on national magazine of King Fahd, volume 20 issue 1
21	Hend Mohamed Hamed (2010)	:	Ecommerce in Touristic Field, Faculty of Tourism and Hotels, Helwan University Cairo
22	Ihab Khalifa (2018)	:	The Blue Kitchen, the Next Technological Revolution in Finance and Administration, Future for Research and Advanced Studies, issue 3 March 2018, Abo Dhabi, Emirates
23	International Telecommunication Union (2018)	:	Creating Abilities in a Changeable Environment for Information and Communication Technology, Communication Development Library, Geneva , Switzerland
24	Kholoud Bent Salem Bin Saleh (2019)	:	Using Open Governmental Data by Researchers at Faculties of Human Sciences, Sultan Kabos University, unpublished master thesis, Faculty of Arts and Social Science, Sultan Kabos, Oman
25	Mahmoud Mohamed Ibrahim, Bassma Moharam Elhadad (2018)	:	Business Establishment and Digital Transformation, a thesis published on information Egyptian magazine, Egyptian Association for Information System and Accounting Technology, issue (21)

Evaluating

26	Mariam Nariman Noumar (2012)	:	Using Social Media and their Effects on Social Relationships "Studying a Sample of Facebook Users in Algeria" unpublished master thesis, Faculty of Media and Communication Science, Al Haj Al Akhdar University, Algeria
27	Mohamed Fathy Abdelhady (2008)	:	Knowledge and Libraries Age, first print, High Institute of Culture, Cairo
28	Mohamed Ramadan Zaho (2006)	:	Marketing and Advertising Researches from the Perspective of Acts Globalization and Data Electronic, Faculty of Commerce , Banha University, Egypt
29	Moustafa Kawal (2018)	:	Suggesting Methods of Sports Promotion to Achieve Self Finance for Algerian Clubs Professionalizing Football, unpublished doctorate thesis, Mohamed Bou Diaf University, Algeria
30	Nawal Bent Aly abdalla (2019)	:	Digital Transformation in Oman Sultanate, unpublished master thesis, Faculty of Arts and Social Science, Sultan Kabos University, Oman
31	Negm Aboud Negm (2004)	:	E. Management "Strategies, Functions and Problems", Dar ALmarikh, Saudi Arabia
32	Omar Khalaf Salem Elsaleh (2019)	:	Factors affecting adopting ecommerce in pharmaceutical companies in Jordon , unpublished master thesis , faculty of economy and administrative science, Al Albit University , Jordon
33	Omar Mohamed Saleh Aly (2018)	:	Developing an application by using things internet techniques: by applying to care services, unpublished master thesis, faculty of post graduate studies, Al Nilin University, Sudan
34	Ramadan Aly Elsayed Elmarouf (2011)	:	E. Commerce in Japan and How Far Egypt Could Profit From, Jazirat Alward Library, Cairo
35	Saad Ahmed Shalaby, Abdellatif Boukhary (2008)	:	Electronic administration and marketing at sports clubs joining the German series of football 2007 2008, analytical study, a thesis published on the first international conference magazine for physical and health education
36	Safaa Soliman Khalil (2019)	:	Developing electronic office systems by using cloud computerizing techniques applying correspondence system , unpublished doctorate thesis ,faculty of computer science and information techniques , Al Nilin University , Sudan

37 Safat Salama, Khalil Abou Koura (2014)	Robots age challenges and ethics, emirates center of strategic studies and research, Abo Dhabi
38 Salma Kounda (2018)	Media and communication technology in the field of school management, a thesis published on sports creation magazine, Mohamed Amin Dabaghin university, volume 9, issue 2, Algeria
39 Srour Aly Srour (2005	: Artificial intelligence, smart systems manual, al marikh publishing house, Riyadh
40 Taweel Osama (2017)	Electronic management and restrictions of applying to sports management, a field study at youth and sports directorate at al masila state, unpublished master thesis , physical activities science and techniques, Mohamed bo deif
United Nation Organization for 41 Education, Science and Culture (2018)	Skills for Connected World, conceptual memorandum, the Week of Learning by Mobile Appliances, UNESCO
42 Youssef Ahmed Abou Fara (2007)	<ul><li>E. Marketing Strategies, a behavioral approach, Al</li><li>Mostakbal Publishing, Oman</li></ul>
43 Zahaf Mohamed (2018)	<ul> <li>E. Marketing as an approach to developing marketing information systems at Algeria sports</li> <li>: organizations. A thesis published on sports science magazine, volume 8, issue 24, Masila university, Algeria</li> </ul>
Second: Foreign Bibliography	
Merle (2019) : a	Blockchain Competitive Advantage: Whether you are an entrepreneur, investor, or established company, earn how to win the battle for blockchain competitive dvantage, Fifth Era Media
	How Your Company Can Use the Internet of Things to Vin in the Outcome Economy, McGraw-Hill Education
Uzureau (2019)	The Real Business of Blockchain: How Leaders Can Create Value in a New Digital Age, Harvard Business Review Press
George Westerman (2014)	eading Digital: Turning Technology into Business ransformation, Harvard Business Review Press
Capasso (2018)	Hands-On Industrial Internet of Things: Create a sowerful Industrial IoT infrastructure using Industry

**£** £

و ع

٤٦

٤٧

٤٨

٤٩	Gil Gildner, Anya Gildner (2019)	:	Becoming a Digital Marketer: Gaining the Hard & Soft Skills for a Tech-Driven Marketing Career, Baltika Press
٥,	Jared Tate, Andrew Knapp (2019):	:	Blockchain 2035: The Digital DNA of Internet 3.0, BlueShed LLC
01	Jim Work George Brand (2020)	:	E-Commerce Business Model 2020: This Book Includes: Online Marketing Strategies, Dropshipping, Amazon FBA - Step-by-Step Guide with Latest Techniques to Make Money Online and Reach Financial Freedom, Independently published
۲٥	Joel Gurin (2014)	:	Open Data Now: The Secret to Hot Startups, Smart Investing, Savvy Marketing, and Fast Innovation, McGraw-Hill Education
٥٣	Julian Singh (2017)	:	: Open Data 101: The latest trends, challenges and research in government open data, Cooee Press
οź	Kevin L. Jackson and Scott Goessling (2018):	:	Architecting Cloud Computing Solutions: Build cloud strategies that align technology and economics while effectively managing risk, Packt Publishing
٥٥	Mohit Sharma (2018)	:	How RPA will impact the future workplace for Governments across the world and the economy, Published by the Federal Authority for Government Human Resources, UA E
٥٦	Ovidiu Vermesan, Peter Friess (2013)	:	Internet of Things: Converging Technologies for Smart Environments and Integrated Ecosystems, River Publishers
٥٧	Rob Kitchin (2014)	:	The Data Revolution: Big Data, Open Data, Data Infrastructures and Their Consequences, SAGE Publications Ltd
٥٨	Sarah Grand-Clement (2017)	:	development for a connected world, RAND Europe Digital technology's role in enabling skills
٥٩	Thomas M. Siebel (2019)	:	Digital Transformation: Survive and Thrive in an Era of Mass Extinction, Rosetta Books

## **Third: International Information Network**

60 https://www.sis.gov.eg/Story/178669/

: Website of Information Authority – 15 November 2018: The partnership between the government and private sector is a basis of permanent development objectives

70

https://www.youm7.com/story/2019/5/27/

61 : Website of Ministry of Communication and Information http://www.mcit.gov.eg/Ar/Media Center/P Technology - Cairo 13 January 2020: Officially, Ministry ress Room/Press Releases/41556 of Planning Provides Ministry of Communication with **Digital Transformation Projects** 62 website of Al Youm Al Sabei Newspaper 22 November https://www.youm7.com/story/2019/11/22 2019: for the first time Egypt operate a communication satellite to apply digital transformation Website of Alwatan Newspaper 18 April 2020: Sobhy 63 https://www.elwatannews.com/news/details/ discusses with Microsoft : digital transformation of projects 4705703 of "youth and sports" : Website of sport 360 – 07 November 2019: Al Ahly Club 64 https://arabic.sport360.com/article/ uncover strategy of digital transformation for all members' services : Site of baladna news economic 03 August 2019: Heliopolis https://www.bneconomy.com/9274 club and Kuwait national bank sign a cooperation protocol of digital transformation of the club in cooperation with Raya systems : Alwatan newspaper 23 July 2016: Egypt telecom signing a https://www.elwatannews.com/news/details/ protocol of cooperation with "Smoha Club" 1273513 : Website of Ros Al Yossef newspaper 30 December 2019: https://www.rosaelyoussef.com/519910 Abdelkader Digital Dr./ Ahmed Farouk writes: Transformation in Egyptian Sports 68 : Website of Ministry of Communication and Information http://www.mcit.gov.eg/Ar/Media\_Center/P Technology 13 January 2020: Officially, Ministry of ress Room/Press Releases/41556 Planning Provides Ministry of Communication with Digital **Transformation Projects** 69 : Prof. Dr. / Faisal Elmala, website of alyam newspaper https://www.alayam.com/Article/sportsports field and artificial intelligence article/414326/

digitally on Watch iT

: Alyom alsabei 27/05/2019, exclusively, the Egyptian serious