

The Impact of Applying Artificial and Emotional Intelligence on the Quality of Decision-Making

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J	ت قویض ۰	
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قرار لجنة المناقشة

نوقشت هذه الرسالة بعنوان (أثر تطبيق الذكاء الاصطناعي والذكاء العاطفي على جودة اتخاذ القرارات)

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التو قيع

الشكر و التقدير

الحمد والشكر لله من قبل ومن بعد ،،

الباحثة فاتن عبد الله صالح

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((<i>))</i>

فهرس المحتويات

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فهرس الأشكال

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The Impact of Applying Artificial and Emotional Intelligence on the Quality of Decision-Making

Prepared by Fatin Abdullah Ibrahim Saleh

Supervised by **Prof. Dr. Mohammed Al-No'eimy**

Abstract

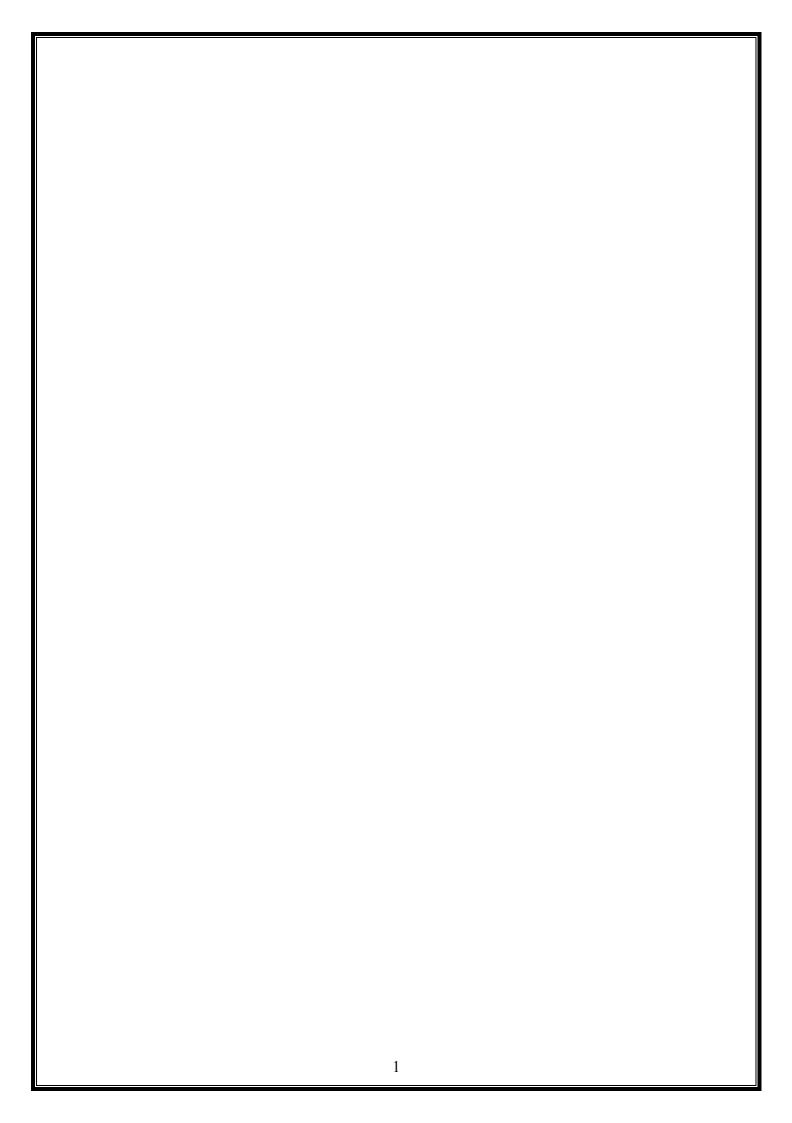
This study has examined the impact of applying artificial and emotional intelligence on the quality of decision-making. The principal goal of this study is to recognize the role of artificial and emotional intelligence in undertaking the administrative decisions in the Jordanian commercial banks and their impact on the quality of decision-making. In order to accomplish the aim of this study, the researcher has designed a tool consists of the following fields: Artificial intelligence, three emotional intelligence, and decision-making; and the following statistical Regression, methods have been used: Simple Pearson Correlation, and Paired Sample T-Test.

The study's results have shown the following:

- 1- There is a statistically indicating relationship between artificial intelligence methods and the quality of administrative decision-making. This relationship has been interpreted by the value of R-Square which equals 0.5%.
- 2- There is a statistically indicating relationship between emotional intelligence methods and the quality of administrative decision-making. This relationship has been interpreted using R-Square to be about 0.68%.
- 3- The results of Pearson Correlation have shown a "positive" correlation between the academic qualification and the artificial intelligence variable.
- 4- The results have shown a "positive" correlation between experience, academic qualification, and the emotional intelligence variable.
- 5- Additionally, The results have shown a "positive" correlation between academic qualification and administrative decision making.
- 6- The results have shown that there is a statistically indicating relationship between motives, in their capacity as applications of emotional intelligence, and the quality of decision-making.
- 7- There is a statistically indicating relationship between the system capability and the quality of decision-making.

- 8- By carrying out Paired Sample T-Test, the results have shown a statistically indicating relationship between the type of intelligent program used in the artificial intelligence methods and the quality of decision-making in the level of 0.004.
- 9- It became clear that there is a statistically indicating relationship between the quality of decision-making and system capability in the level 0.034.
- 10- Concerning the relationship between the quality of decision-making and the implementation of emotional intelligence methods, the test results have shown a relationship between motives and the quality of decision-making in the level 0.001. As well as, there was a statistically indicating relationship between the controversial perspectives and the quality of decision-making in the level 0.00.

The study recommended developing the workers skills in order to handle the different methods of artificial and emotional intelligence, and working on identifying the scientific and objective basis that should be adopted in decision-making.



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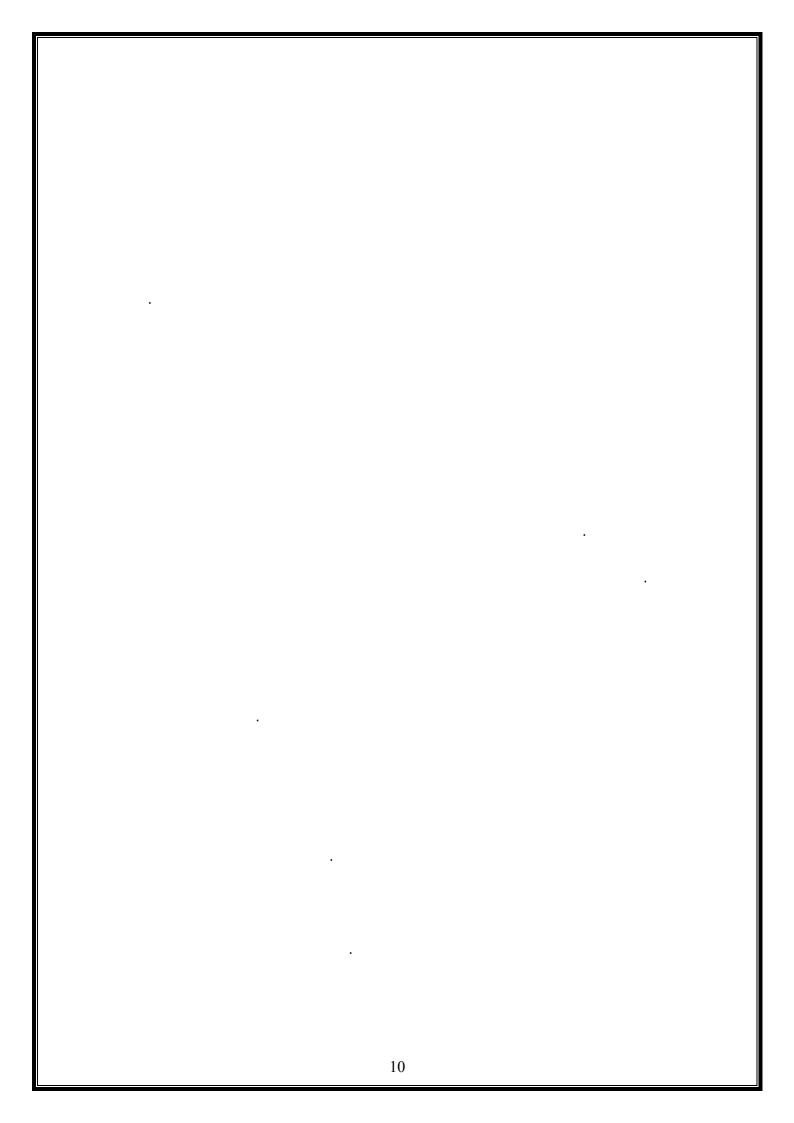
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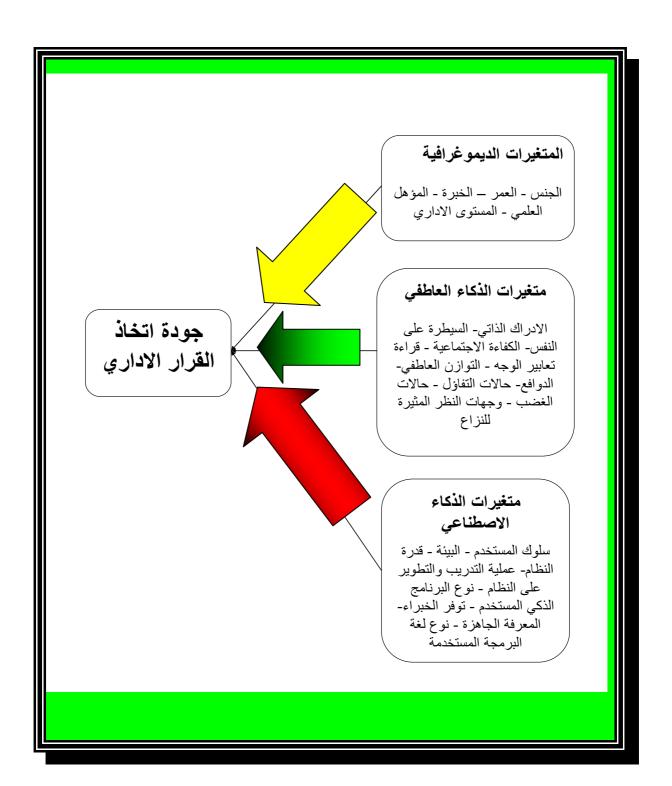


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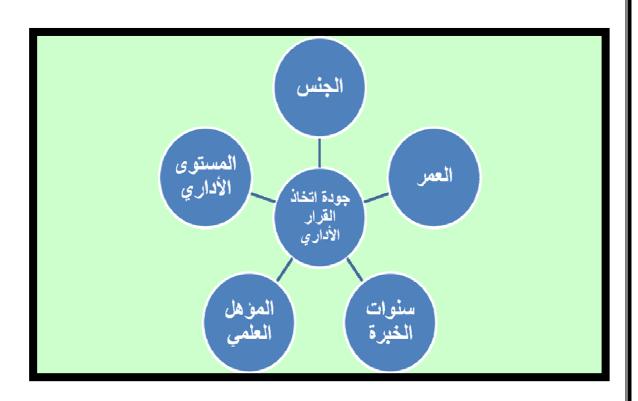
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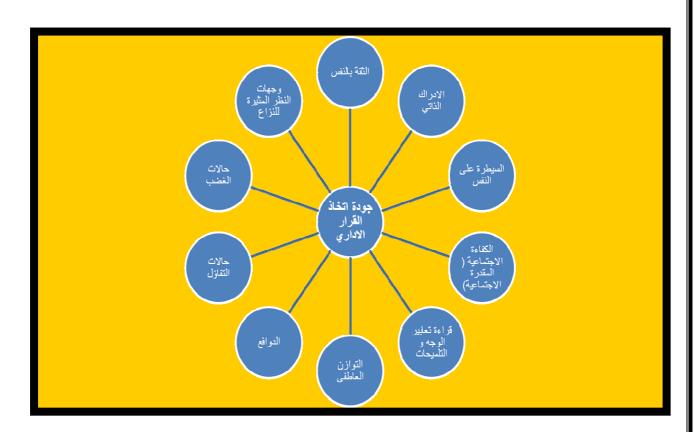
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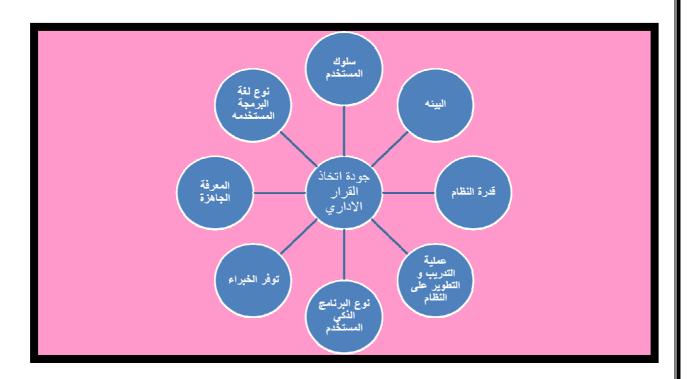
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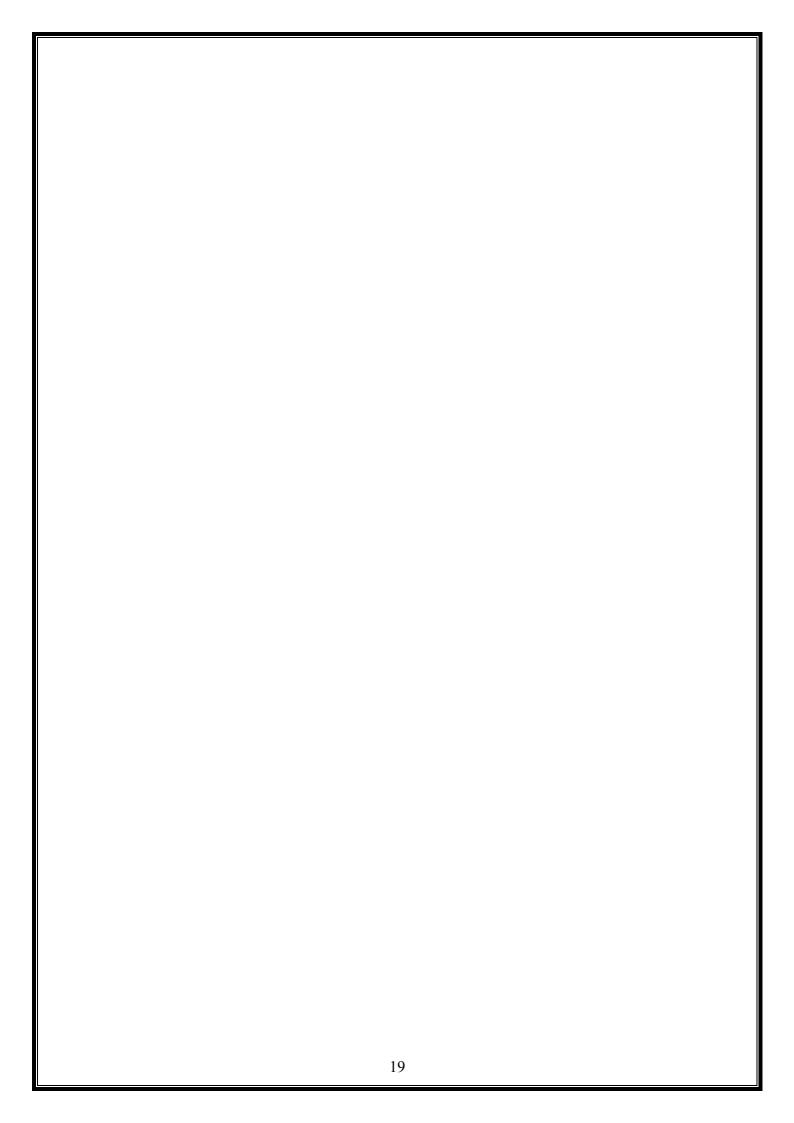
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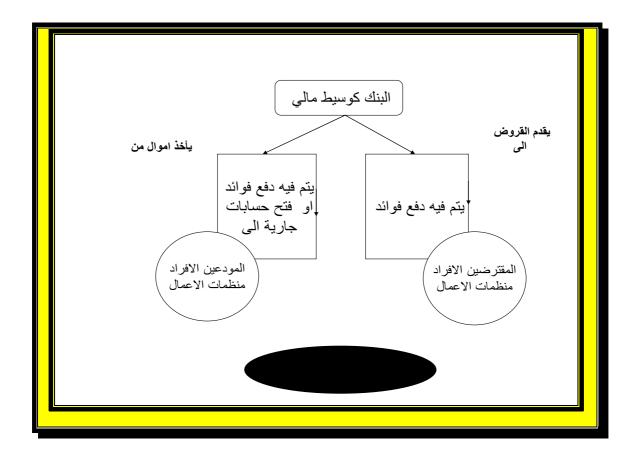
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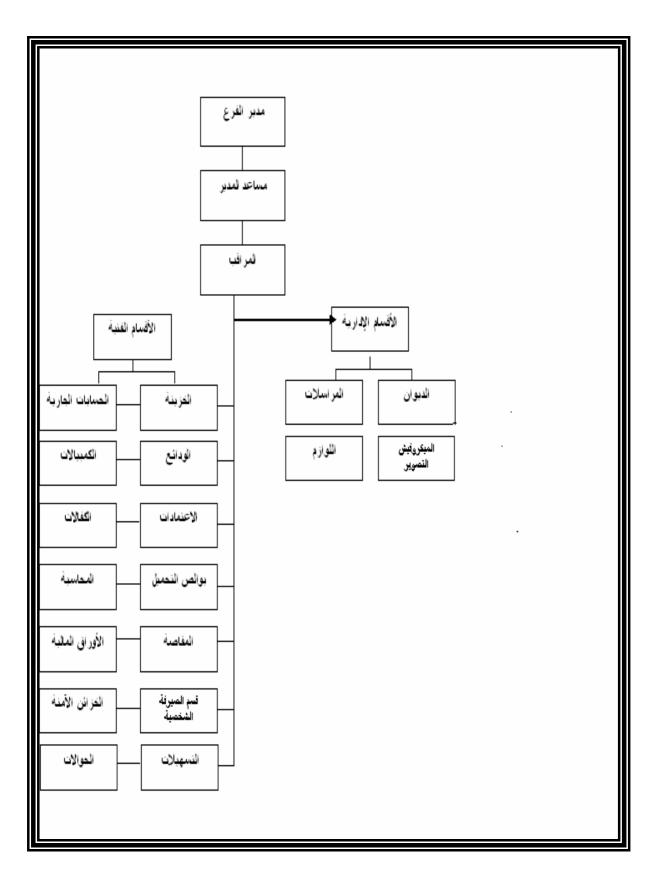
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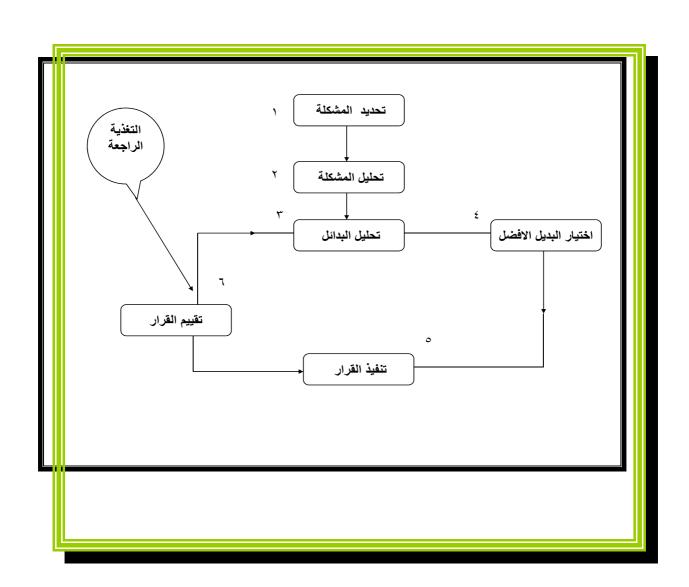
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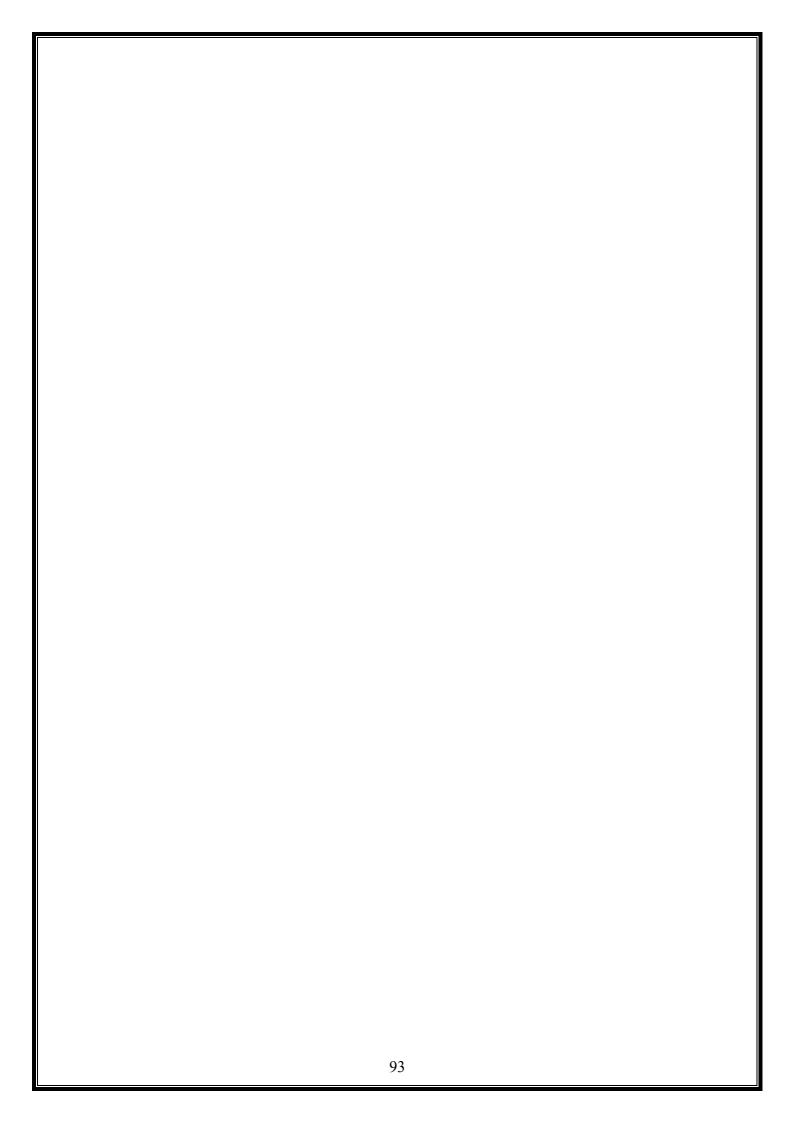
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36	9	45	بنك الأردن
32	8	40	بنك القاهرة عمان
16	4	20	بنك المال الأردني
20	5	25	البنك التجاري الأردني
21	5	27	البنك الأردني الكويتي
28	7	35	البنك الأهلي الأردني
52	13	65	بنك الإسكان للتجارة و التمويل
40	10	50	بنك الاستثمار العربي الأردني
36	9	45	البنك الأردني للاستثمار و التمويل
24	6	30	 بنك سوستيه / جنرال الأردن
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409	102	512	المجموع

38 409 104 102 . . 6 =

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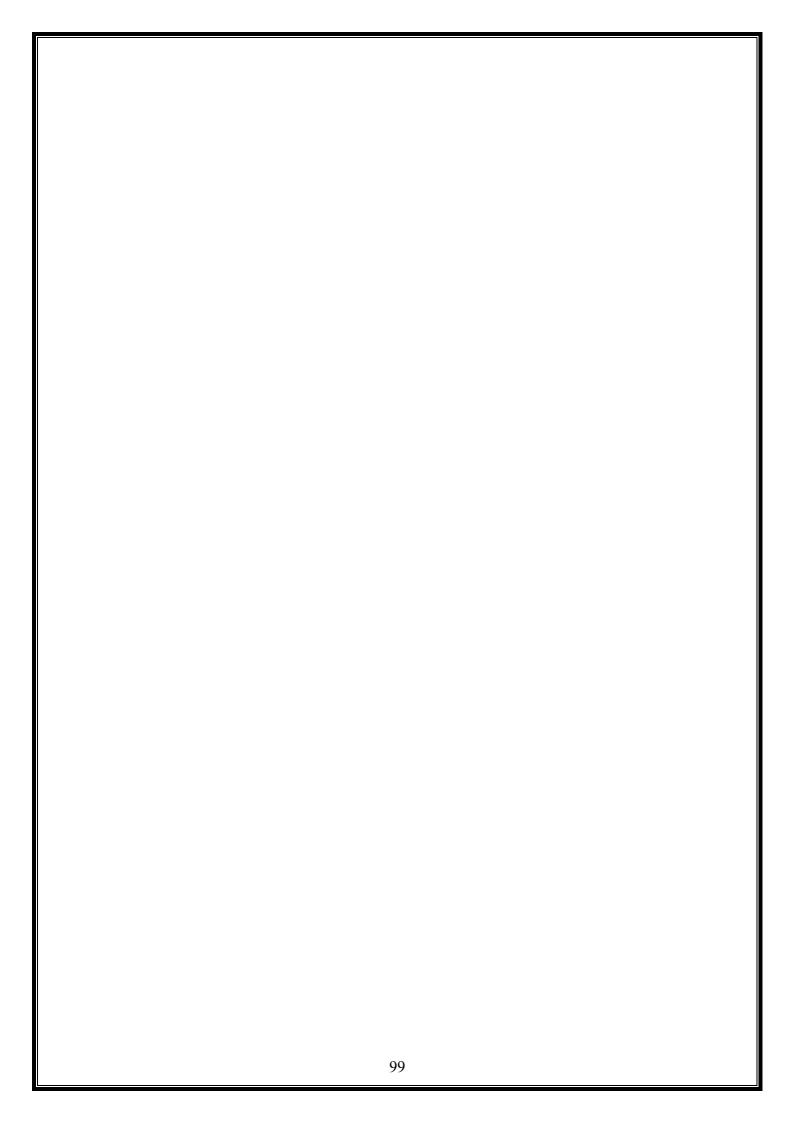
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%100	98	المجموع الكلي

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3.1	3	أقل من 25 سنة
16.3	16	من 25-30 سنة
48.0	47	45-30 سنة
32.7	32	أكثر من 45 سنة
%100	98	المجموع الكلي

3

" 47 30 -25

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25

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(4)

12.2	12	أقل من 5 سنوات
36.7	36	6-10 سنوات
20.4	20	11-11 سنة
30.6	30	أكثر من 15 سنة
%100	98	

5 " 12

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4.1	4	دبلوم
67.3	66	بكالوريوس
10.2	10	دبلوم عالي
18.4	18	بكالوريوس دبلوم عالي دراسات عليا
%100	98	

" 66

4

" 18 10

(6)

12.2	12	مدير عام
37.8	37	مدير دائرة
19.4	19	مدیر قسم
30.6	30	مدیر فرع
%100	98	المجموع الكلي

" 12

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2.4 .946 $.(0.05 = \infty)$ Simple regression 107

:

$DesicionQu \ ality = \alpha + \beta artificial + ui$

R-Square	= 0.50	
Т	4.951	9.902
Sig	0.00	0.00
F= 98.056	Sig= 0.00	

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Ui . 0.00.

98 =

 $..(0.05 = \infty)$

$DesicionQu \ ality = \alpha + \beta emotional + ui$

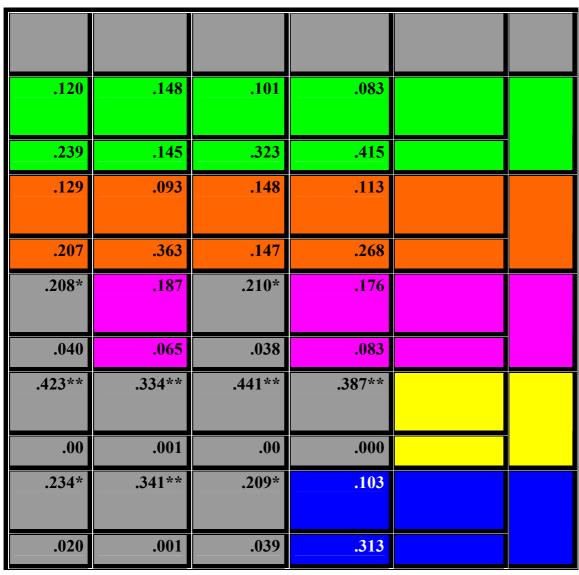
R-Square	0.683	
Т	3.035	14.373
Sig	0.003	0.00
F= 206.570	Sig= 0.00	

: (8)

0.68 $=\infty$) ...(0.05 110

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الدرجة	الرتبة	الانحراف المعياري	الوسط الحسابي	السوال
مرتفعة	1	0.6947	4.6939	1
مرتفعة	7	0.9360	3.8980	2
مرتفعة	5	1.1368	3.9184	3
مرتفعة	15	1.3243	3.7551	4
متوسطة	20	1.4005	3.5510	5
مرتفعة	8	1.1633	3.8673	6
متوسطة	19	1.2022	3.6531	7
مرتفعة	12	1.1535	3.7755	8
مرتفعة	14	1.1288	3.7653	9
مرتفعة	14	1.1997	3.7653	10
مرتفعة	2	.6989	4.6186	11
مرتفعة	4	0.9829	3.9485	12
مرتفعة	10	1.1304	3.8144	13
متوسطة	24	1.1910	3.4742	14
مرتفعة	17	1.2261	3.7010	15
متوسطة	21	1.1189	3.5258	16
مرتفعة	6	1.0112	3.9072	17
مرتفعة	13	1.0945	3.7732	18
متوسطة	18	1.2066	3.6598	19
متوسطة	18	1.1716	3.6598	20
مرتفعة	11	1.1451	3.7938	21
مرتفعة	9	1.1336	3.8351	22
متوسطة	23	1.3160	3.5052	23
مرتفعة	16	1.1183	3.7526	24
متوسطة	22	1.2675	3.5155	25
مرتفعة	3	0.8833	4.4082	26

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2-جدول رقم (9) الأوساط الحسابية والانحرافات المعيارية لفقرات الذكاء الاصطناعي

الدرجة	الانحراف	الرتبة	الوسط الحسابي	السؤال
***	المعياري			
متوسطة	1.1482	14	3.6633	27
عالية	1.0189	6	3.8163	28
متوسطة	1.1623	17	3.6224	29
متوسطة	1.2121	16	3.6429	30
متوسطة	1.2862	21	3.5204	31
عالية	1.1054	4	3.8776	32
عالية	1.1035	10	3.7551	33
متوسطة	1.1821	13	3.6735	34
عالية	1.1029	11	3.7143	35
متوسطة	1.1586	15	3.6531	36
متوسطة	1.0576	23	3.5000	37
متوسطة	1.2782	22	3.5102	38
متوسطة	1.1680	20	3.5408	39
عالية	0.8363	1	4.4184	40
عالية	0.9685	3	3.8980	41
عالية	1.0999	2	3.9184	42
متوسطة	1.0865	23	3.5000	43
متوسطة	1.3470	19	3.5714	44
متوسطة	1.1818	18	3.6020	45
عالية	1.2144	9	3.7755	46
عالية	0.9870	5	3.7857	47
عالية	1.0841	8	3.8571	48
عالية	0.9411	7	3.7959	49
عالية	1.1577	11	3.7143	50
متوسطة	1.0898	12	3.6837	51
متوسطة	1.3174	20	3.5408	52
متوسطة	1.1599	22	3.5102	53

جدول رقم (12)

الدرجة	الانحراف	الرتبة	الوسط الحسابي	السوال
	المعياري			
عالية	0.8981	1	4.4490	1
عالية	1.0586	5	3.8469	2
عالية	0.9914	2	4.0816	3
متوسطة	1.1734	7	3.6735	4
متوسطة	1.3529	7	3.6735	5
متوسطة	1.1688	9	3.6429	6
عالية	1.1299	3	3.9592	7
عالية	1.1671	6	3.7551	8
عالية	1.0961	4	3.8776	9
متوسطة	1.1572	8	3.6633	10
متوسطة	1.1818	10	3.6020	11
متوسطة	1.0624	10	3.6020	12
متوسطة	1.3467	12	3.2041	13
متوسطة	1.2165	11	3.3265	14

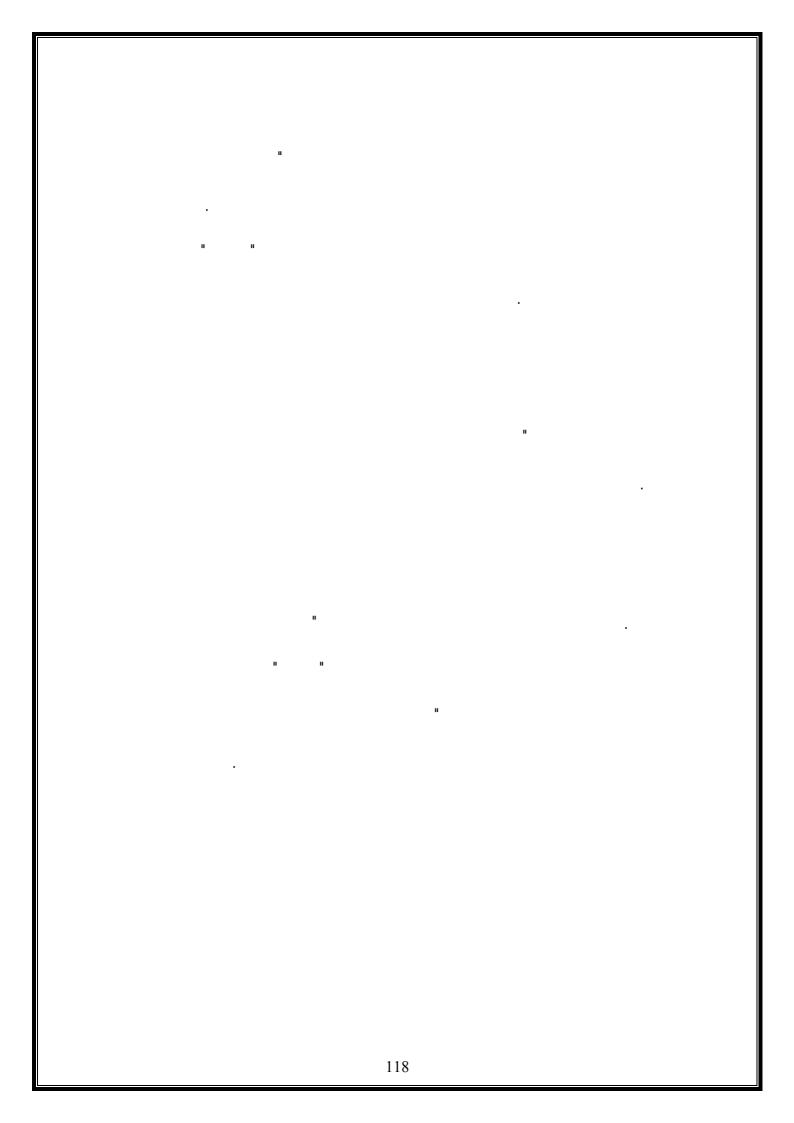
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Paired Sample Test

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Paired Sample Test

مستوى المعنوية	قيمة ت	الانحراف	الوسط	
		المعياري	الحسابي	
		.6241	3.7398	جودة اتخاذ القرار
.528	.633	1.0898	3.6837	الإدراك الذاتي
.066	1.858	.8180	3.6224	السيطرة على النفس
.66	.433	.8971	3.7711	الكفاءة الاجتماعية
.115	1.589	.7239	3.6599	قراءة تعابير الوجه والتلميحات
.656	.447	.9501	3.7755	توازن العاطفة
.001	3.280	.7531	3.5595	الدوافع
.416	.817	1.1586	3.6532	حالات التفاؤل
.078	1.783	.9685	3.8980	حالات الغضب
0.00	8.273	.7358	4.4133	وجهات النظر المثيرة للنزاع
.104	1.641	.6357	3.8163	الثقة بالنفس

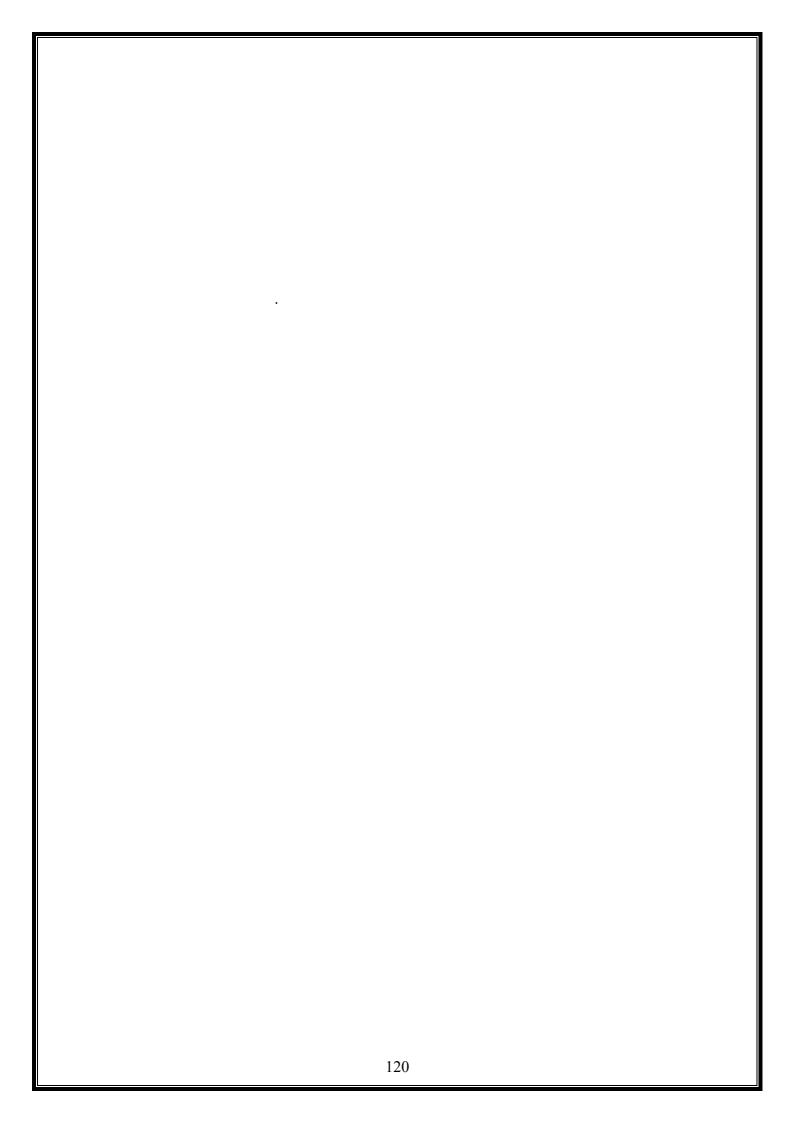


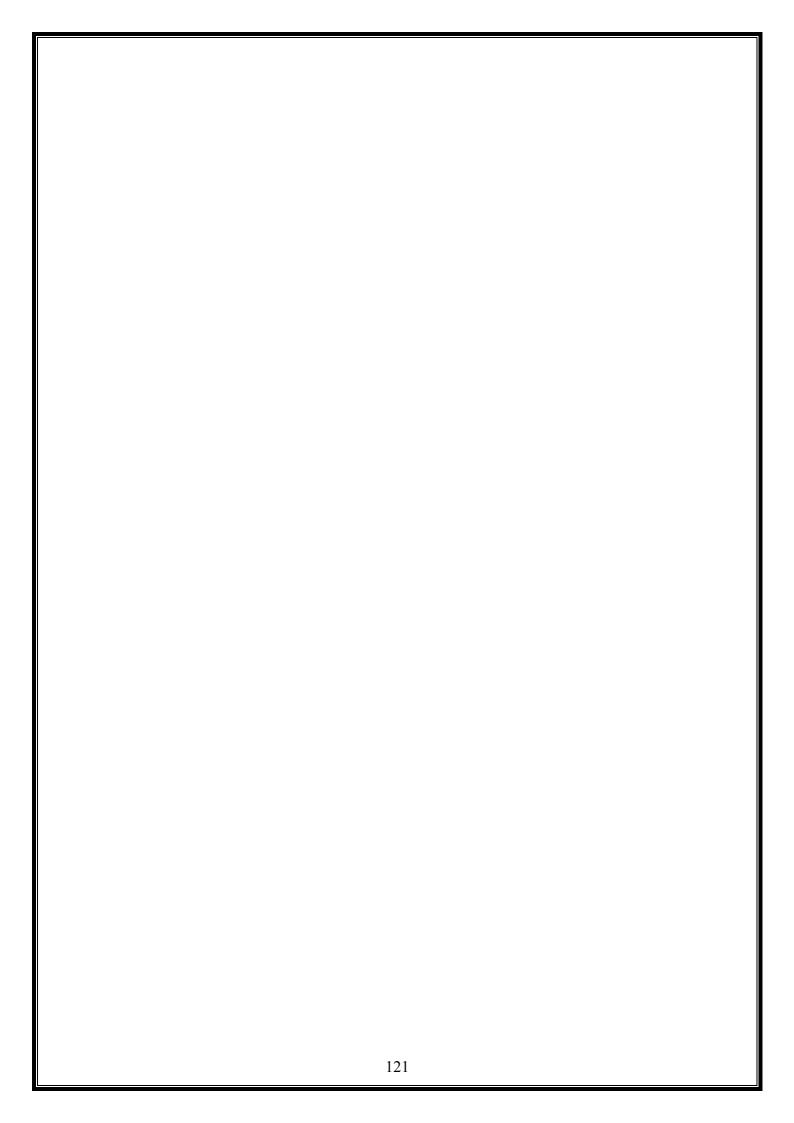
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Paired Sample Test

مستوى المعنوية	قيمة ت	الانحراف	الوسط	
		المعياري	الحسابي	
		.6241	3.7398	جودة اتخاذ القرار
·				
.366	.909	.8535	3.6735	البيئة
.034	2.151	.7305	3.8724	قدرة النظام
.281	1.084	.8796	3.6592	عملية التدريب والتطوير
.004	2.968	.6369	3.8865	نوع البرنامج الذكي المستخدم
.450	.758	.8266	3.7869	توفر الخبراء
.426	.799	.7019	3.7840	المعرفة الجاهزة
.350	.940	.8662	3.6701	نوع لغة البرمجة المستخدمة
.254	1.147	.7423	3.8061	سلوك المستخدم





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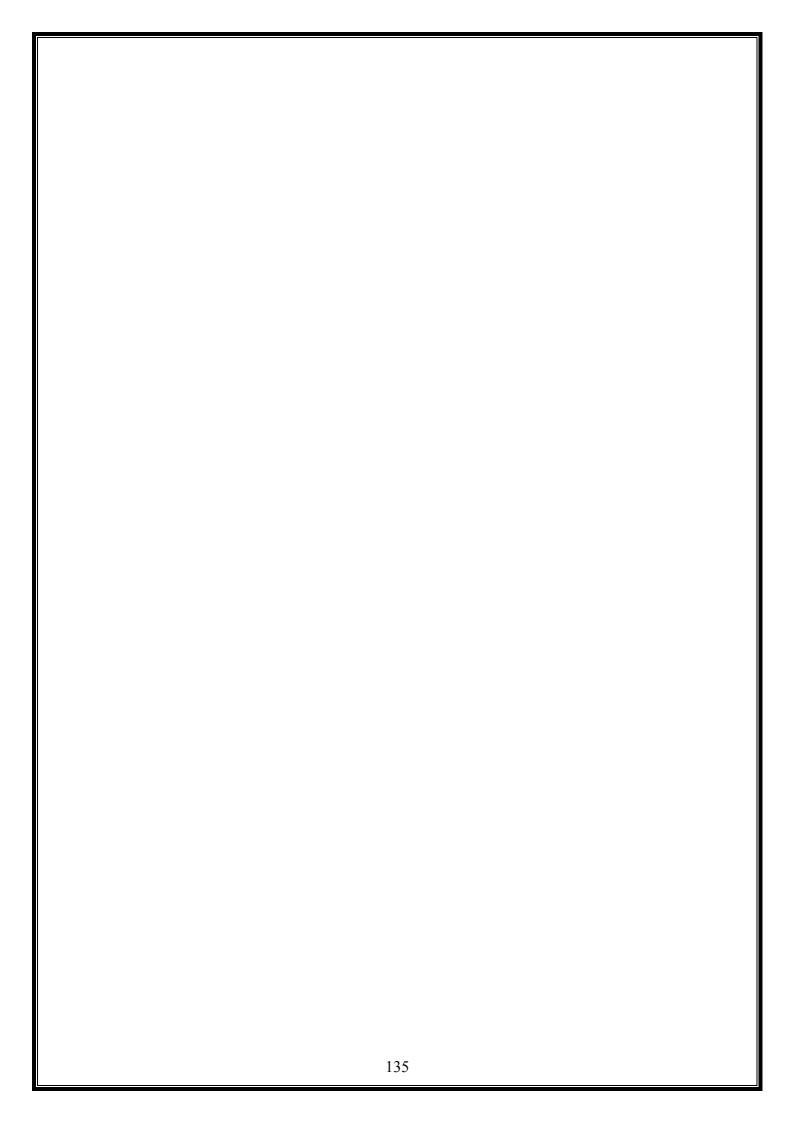
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