

TINI- SOS

The International New Issues In SOcial Sciences

Number: 8 Volume: 1 pp: 135-152 Winter 2020

Makalenin Geliş Tarihi: 14/12/2018

Kabul Tarihi:17/05/2019

Araştırma makalesi

The Impact of Intellectual Capital on Unlimited Improvement: A Research in Libyan Public Universities



Abstract

This Study aimed to demonstrate the impact of intellectual capital on unlimited improvement. And it is a field study on public Libyan universities, with a number (20) universities. And towards that goal, a questionnaire had been designed which was distributed on the (6) universities of the study sample, and out of 320 distributed questionnaires several 295 were retrieved and only about 281 questionnaires were valid for analysis. The findings were analysed in the SPSS 23.0 program.

As a result of the study, there is a significant effect of intellectual capital with its dimensions (human capital, structural capital, relational capital) on the applying of unlimited improvement.

Key words: Intellectual Capital, Human Capital, Structural Capital, Relational Capital, Unlimited Improvement.

JEL Code: M11

Zawia University, Faculty of Economics, Libyan, <u>najwasas@yahoo.com</u> (orcid: 0000-0002-5358-5167)



Entellektüel Sermayenin Sınırsız İyileşmeye Etkisi: Libya Devlet Üniversitelerinde Bir Araştırma

Özet

Bu çalışma, entelektüel sermayenin sınırsız gelişme üzerindeki etkisini göstermeyi amaçlamıştır. Bu çalışmada yirmi (20) üniversitenin bulunduğu devlet Libya üniversiteleri üzerine bir saha araştırması yapılmıştır. Ve bu amaca yönelik olarak, çalışma örneğinin (6) üniversitesine dağıtılmış bir anket tasarlanmış ve 320 dağıtılmış anketten 295'i geri alınmış ve sadece yaklaşık 281 anket analiz için geçerli olmuştur. Bulgular SPSS 23.0 programında analiz edilmiştir.

Çalışma sonucunda entelektüel sermayenin boyutları (beşeri sermaye, yapısal sermaye, ilişkisel sermaye) ile sınırsız iyileşmenin uygulanması üzerinde önemli bir etkisi olduğu belirlenmiştir.

Anahtar kelimeler: Entelektüel Sermaye, Beşeri Sermaye, Yapısal Sermaye, İlişkisel Sermaye, Sınırsız İyileşme.

Jel Kodu: M11

1. Introduction

Intellectual capital is an important requirement for the application of TQM within the organization, which requires attention and interest in all its aspects, starting with testing and placement, job placement, performance evaluation, continuous training programs and unlimited improvement of all levels according to the type of skills and behavioral knowledge required for each level. This study has important implications for academic leaders in universities. It motivates them to invest in intellectual capital and to achieve business excellence through unlimited improvement.

Considering the importance of intellectual capital and unlimited improvement and their impact on the ability of universities to survive and continue. The study problem can be formulated by asking the following question:

Is there the impact of intellectual capital (human capital, structural capital, relational capital) on applying unlimited improvement in Libyan public universities?

2. Theoretical Framework

At the start of the 21st century, many of the authors have argued that knowledge and intellectual capital plays a fundamental role in modern

organizations of a knowledge-based economy (Bontis et al., 1999; Edvinson & Malone, 1997; Edvinsson, 2000; Sudarsanam et al., 2003; Roos & Roos, 1997). In the words, intellectual capital is becoming more significant in determining the performance of enterprises in today's global economic system (Hsu & Fang, 2009; Bontis, Keow, & Richardson, 2000).

The intellectual capital is one of the most important topics that has attracted the interest of researchers as it represents a strategic presence of the organization and its real wealth. It is the source of creativity and innovation as well as an indicator of its economic performance and a sign of its success, excellence and continuity (Ghorbani et al ., 2012) . Where the economist Galbraith (1969) was the first to propose the intellectual capital concept and described intellectual capital as a behaviour that requires the exercise of the brain (Huang & Wu, 2010). Despite this importance, there is no agreement among the researchers on a uniform definition of it, according to Hunter et al (2005), intellectual capital is conceptualized as an intangible resource that can generate value in future. Edvinsson (2000) suggests that all the information that can be converted into something valuable is intellectual capital. According to Bontis et al (2000), intellectual capital means individual employees and organizations' knowledge that contribute towards sustainable competitive advantage.

At the universities level, intellectual capital refers to all intangible assets of educational institutions that include processes, capabilities, creativity, patents as well as the implicit knowledge of their members, their abilities, talents, and skills(Córcoles, 2012). Salleh & Selamat (2007) believes that the academic staff in educational institutions are the ones that make intellectual capital through their abilities, direction, and intellectual intelligence, and that they can improve those abilities by possessing scientific skills to accomplish various activities in a distinct way.

Despite the divergence of the researchers' views on the concept of intellectual capital, there is agreement among the majority that it consists of three dimensions: human capital, structural capital, and relational capital (Stewart, 1997; Salleh & Selamat, 2007; Roos, Bainbridge, & Jacobsen, 2001; Kamukama, 2013).

Human capital refers to specific knowledge, competencies, skills, personal networks of the company's employees, their ability to generate and utilize it in the process of value creation. Human Capital is an indispensable

part of Intellectual capital and provides input to both organizational and relational capital.

Organizational capital usually refers to resources of the organization such as brands, patents and other intellectual property, systems, organizational structures, valuable information etc .

Relational capital includes relationships which it maintains with the main agents connected with its basic business processes – customers, consumers, intermediaries, representatives' suppliers, partners, etc (Martín-de-Castro et al., 2006).

Unlimited improvement is a new improvement tool proposed, which draws attention to the problems encountered in TQM implementations, which may affect or limit the success of TQM, and eliminate all limitations encountered in continuous improvement efforts. This tool will make an important contribution to the improvement of organizational performance when it is used as a new improving tool and application. In unlimited improvement, all the people, phases and practices are targeted to be covered by improvement, removal of all restrictions, elimination of obstacles, thereby expanding the scope of improvement. This may result in the best possible efficiency, effectiveness and quality level (Küçük, 2016b,335).

Unlimited improvement addresses all elements that affect organizational performance in scope and examined among the elements of the scale of the organization. Thus, all people, units, tools and applications are included in the improvement (Küçük, 2011).

The importance of unlimited improvement is mainly due to the problems encountered in TQM implementation and quality improvement only within certain limits and in a limited environment.

The main aim of unlimited improvement is to increase the productivity of the factor to the extent possible by extending the improvement to all the elements, and as a result, to ensure customer satisfaction and profit increase.

Finally, Unlimited improvement is not an alternative to continuous improvement or Kaizen. Unlimited improvement is a new tool that needs to be addressed together with its own perspective and application systematic (Küçük, 2016b: 340-346).

3. Aims of Study

The main purpose of this study; to identify the impact of intellectual capital with its dimensions (human capital, structural capital, relational capital) on unlimited improvement in Libyan public universities and introducing the concept of intellectual capital and unlimited improvement as concepts of modern management have a role in improving the performance of universities and increase profitability. And the extent to which these universities recognize the importance of these concepts in improving the university's competitive position.

4. Scope and Method of the Study

Application of the study on the sample from Libyan public universities and the variables which included in the study are intellectual capital with its three dimensions and unlimited improvement and the sample of the study is represented by the academic leaders (dean, associate dean, heads of scientific and administrative departments) in the universities are under study.

The researcher used the descriptive analytical method, the questionnaire was used for data collection, analysis and hypothesis testing.

In this study, the questionnaire consists of two parts. The first part contains a general information regarding gender, age, educational level and years of experience. The second part developed to measure the relationship between intellectual capital and unlimited improvement was formed in accordance with their dimensions. They are respectively as follows: Human Capital, Structural Capital, Relational Capital, and Unlimited Improvement.

Küçük (2016b) scale was used for unlimited improvement(dependent variable) and (Al-Fayoumi, 2010, Handzic & Öztürk, 2010, Subramaniam & Youndt, 2005) scales were used for intellectual capital dimensions (independent variable).

The researcher used the five - point Likert scale in which 1=strongly agree, 5= strongly disagree (Küçük, 2016a: 81-83). The data obtained were analysed in SPSS 23.0 program. Validity and reliability were tested, and regression analysis was performed.

The study population consists of the academic leaders (dean, associate dean, heads of scientific and administrative departments), in Libyan public universities. The number of universities is 6. (320) copies of the questionnaire were distributed to the study sample and (39) copies were excluded because

were invalid for the purposes of analysis.

5. Research Model

The model of the study is shown in Figure 1.



Figure 1. Research Model

As shown in Figure 1, there are two variables in the model. These; intellectual capital and unlimited improvement. The relationship between these variables is examined.

6. Hypothesis

In reviewing earlier studies, didn't found any research that directly examines the impact of intellectual capital on unlimited improvement.

state that there is a significant and positive relationship between intellectual capital investment and knowledge management processes and there is a significant and positive impact of both intellectual capital investment and knowledge management processes on applying TQM.

Anfoos (2014) found that there is a statistically significant relationship between the Intellectual Capital Investment and Total Quality Management.

Benshina (2008) state that there is a significant positive relationship between performance management and unlimited improvement and its components (planning, standardizing, and improving the quality of work, relationship with customer, human resources development and maintenance policy.

Küçük (2011) found that unlimited improvement is a quality improvement instrument that based on the realization of all business activities continuously and without any limitations quality improvement activities, people, process and to other internal and external factors of organization, and is a quality improvement instrument focusing on elimination of all existing and potential restrictions.

Küçük (2011), (2016b), and Ay & Nurov (2017) determined that there is a relationship between unlimited improvement and organizational performance. Based on the literature above, the following hypothesis is formulated:

H1: There is a statistically significant impact of intellectual capital (human, structural, relational capital) on applying unlimited improvement.

7. Data Analysis Descriptive statistics of demographic variables

This section describes and distributes the individuals involved in the study according to gender, age, years of experience and educational level. The results obtained are displayed in the table below.



Variable	Category	Frequency	Percent (%)
Gender	Male	211	75.1%
	Female	70	24.9%
Total		281	100%
Age	Less than 30 years old	18	6.4%
	From 30-40 years	128	45.6%
	From 41-50 years	103	36.6%
	Over 50 years old	32	11.4%
Total		281	100%
	Less than 5 years	102	36.3%
Experience years	From 6-10 years	102	36.3%
	From 11-15 years	49	17.4%
	More than 16 years	28	10%
Total		281	100%
Level of education	Higher Diploma	8	2.8%
	Bachelor	35	12.5%
	Masters	157	55.9%
	PhD	81	28.8%
Total		281	100%

Table 1. Distribution of The Individuals Of The Study

From the Table above, we note the following:

- Most of the respondents from a male % by 75.1%
- Most respondents are over the age of 30 years
- About a two-thirds (63.7%) of the respondents had more than 6 years of experiences in their universities
- Most (84.7%) of the respondents held postgraduate degrees

Measures' Reliability and Validity

A preliminary analysis consists of reliability tests and factor analyses to establish the quality of information of study variables which are represented by intellectual capital and unlimited improvement.

The statistics related to the exploratory factor analysis which reveal the intellectual capital and unlimited improvement factors and factor loads represented by the participants are shown in Tables 2 and 3.

Intellectual Capital (IC)	Factor Loads	Eigen value	variance Explanation rate (%)	Cronbach's alpha	Mean	КМО
Human Capital (HC)			1446 (76)			
1. The university has strong	0.651	-			3.20	
and visionary leadership						
2. The university hires high-	0.745				3.11	
quality academic staff						
3. Academic staff are	0.683				3.06	
dedicated full-time						
researchers/instructors		4			ļ	4
4. The university provides full	0.683				3.09	
admin support for academics						-
5. Academic staff work with	0.698				3.08	
small groups of students to						
provide them high-quality		3 3/3	53 3/1	0.924		0 9/2
teaching		5.545	55.541	0.924		0.942
6. Academic staff are	0.708				3.06	
motivated to do research						-
7. The University has a clear	0.691				3.07	
policy of attracting						
distinguished faculty and						
administrators	0.746	4			2.44	-
8. The University has a low	0.746				3.14	
turnover rate of work among						
its staff (professors and						
administrators)	0.700	4				_
9. Professors at the university	0.739				3.14	
are keen to place their place						
of work when publishing						
their scientific works	1					1

Table 2. Descriptive Factors Analysis Intellectual Capital Scale



Table 2. Descriptive Factors Analysis Intellectual Capital Scale (Cont.)

Intellectual Capital (IC) Structural Capital (SC)	Factor Loads	Eigen value	variance Explanation	Cronbach's alpha	Mean	КМО
10.The university supports the culture of continuous improvement of the educational process and its outputs	0.573		rate (%)		3.01	
11. The university has	0.653				3.19	
12. The university has contributed to many scholarly outlets	0.663				2.99	
13. Own research outlets have been started by the university	0.622	3 3/13	53 3/1	0.924	3.05	14
14. The university offers necessary library and info- services	0.565	5.545	JJ.J+1	0.524	2.93	
15. IT provides reliable	0.641				3.00	
16. Organizational relations between the university faculties and their scientific departments are characterized by cooperation, integration and	0.688				3.00	
exchange of experiences. 17. The University's work style focuses on self- managed teams	0.646				3.19	-
Relational Capital (RC) 18. High quality students are being attracted	0.707				3.16	
19. University offers expertise to external stakeholders	0.658				3.04	
20. There is close partnership established with other universities	0.727				3.05	
21. The university is a member of scientific/ professional associations	0.649				3.12	

Intellectual Capital (IC)	Factor	Eigen	variance	Cronbach's	Mean	KMO
	Loads	value	Explanation	alpha		
			rate (%)			
22. The university	0.696				3.07	
encourages academic						
networking						
23. The university	0.695				3.11	
promotes positive public						
image						

Table 2. Descriptive Factors Analysis Intellectual Capital Scale (Cont.)

As can be seen from Table 2, since the factor loadings of all expressions are over 0.5, the scales can be considered stable and appropriate for the analysis. The eigenvalues were 3,343 and the eigenvalues greater than 1 indicate that this study is scientifically appropriate and that the scales are valid and reliable. The Cronbach's alpha coefficient was found to be 0.92 between (0,80 and 1) so the scale was highly reliable (Küçük, 2016: 228-232).

145

Unlimited Improvement	Factor	Eigen	variance	Cronbach's	Mean	KMO
(UI)	Loads	value	Explanation	alpha		
			rate (%)			
1. All the academic and	0.797				3.25	
administrative leadership						
participate in the training						
2. All the academic and	0.785				3.18	
administrative leadership						
are included in the						
improvement		5.322	66.527	0.928		
3. Organizational	0.829				3.10	0.928
structure is included in						
the improvement						
4. All occupations are	0.850				2.96	
included in the improve.						
5. All tools are included in	0.803				3.06	
the upgrade						
6. All processes are	0.828				2.97	
included in the improve.						
7. All applications are	0.809				2.95	
included in the upgrade						
8. All suppliers are	0.821				3.04	
included in the						
improvement						

Table 3. Descriptive of Factors Analysis Unlimited Improvement

As can be seen from Table 3 since the factor loadings of all expressions are over 0.5, the scales can be considered stable and appropriate for the analysis. The eigenvalues were 5.322 and the eigenvalues greater than 1 indicate that this study is scientifically appropriate and that the scales are valid and reliable. The Cronbach's alpha coefficient was found to be 0.928 between (0,80 and 1) so the scale was highly reliable (Küçük, 2016: 228-232).

Testing hypothesis of the study

Before the multiple linear regression analysis, the correlation coefficient was used to describe the association between Intellectual Capital and Unlimited Improvement as shown in table 4.

Var	iables	1	2	3	4	м	S. D	
1	Human Capital	1				3.107	.632	
2	Structural Capital	.505**	1			3.044	.625	
3	Relational Capital	.704**	.520**	1		3.090	.557	
4	Unlimited Improvement	.709**	673**	.682**	1	3.134	.617	
**Correlation is significant at the 0.01 level (2-tailed)								

Table 4. Correlation of Variables

As the correlation matrix highlights Unlimited Improvement were positively and significantly linked to Human Capital, Structural Capital, and Relational Capital. These results may be explained essentially by the fact that the three dimensions of intellectual capital provide favorable terrain to achieve Unlimited Improvement.

Multiple Linear Regression was carried out to comprehend the link between intellectual capital and the degree of applying unlimited improvement. The results are summarized in table5.

Main hypothesis

There is a statistically significant impact of intellectual capital (human, structural, relational capital) on applying unlimited improvement.

To test this hypothesis, we used multiple regression analysis to ensure that there is an impact of intellectual capital (human capital, structural capital, relational capital) on unlimited improvement, as shown in Table 5.

Table 5. Results of the multiple regression analysis to test the Impact of

 Intellectual Capital on Unlimited Improvement

Variables	В	t-value	Sig				
Human Capital	.352	6.977	0.000				
Structural Capital	.369	8.808	0.000				
Relational Capital	.243	4.766	0.000				
Overall model F= 181.950; p < 0.001; R = 0.814; R ² = 0.663; Adjusted R ² = 0.660							
ndependent variable: Human Capital, Structural Capital, Relational Capital							

Dependent variable: Unlimited Improvement

Table 5 indicates the results of multiple regression for testing the effect of intellectual capital on unlimited improvement. According to the results included in the table above the value of R2 expresses the percentage of variation in the dependent variable (unlimited improvement) that could be referred to the independent variables (intellectual capital). Accordingly, the intellectual capital explains a percentage of 66.3 %.

The t statistics test the linearity significance of each intellectual capital constructs in relation to the dependent variable. Human capital, structural capital and relational capital showed a significant linearity importance in the prediction model, the magnitude of effect of these constructs on the dependent variable reflected from beta (β) coefficient as (0.352), (0.369), and (0.243) respectively they were statistically significant because the related probability values (sig. t) was \leq 0.01.

A significance of this impact is confirmed by the calculated F value (181.950) which is a significant at level ($\alpha \le 0.01$), this ensures validity of the main hypothesis. Since the value is 0.001 <0.005, the hypothesis is a significant and accepted (Küçük, 2016a: 245-249).

8. Discussion

The main purpose of this study is to examine the effect of intellectual capital (human, structural, and relational capital) on unlimited improvement in the Libyan public universities. As results are shown in the table (5) validity of the main hypothesis which indicates that "There is a significant effect of intellectual capital (human capital, structural capital and relational capital) on unlimited improvement in the Libyan public universities at level ($\alpha \le 0.01$)". The value of R² expresses the percentage of variation in the dependent variable (unlimited improvement) that could be referred to the independent variables (intellectual capital). Accordingly, intellectual capital explains a percentage of (66.3 %) of the variance in unlimited improvement. The value of calculated f equals (181.950) with the significant f equals (0.000) which is (≤ 0.01). Therefore, intellectual capital constructs together have a significant positive effect on the unlimited improvement in the Libyan public universities.

This result could be due to a better understanding of the benefits and importance of intellectual capital by the academic leaders of Libyan public universities as one of the major drivers for applying unlimited improvement, improve the performance, and gaining competitive advantage. Academic leaders on Libyan public universities realize that intellectual capital (Human, Structural and Relational capital) includes resources valuable, which impact an unlimited improvement and achieve superior performance of the organization. These findings are consistent with the studies of ((AI-Sarayra & AI-Najdawi, 2012; Ben Aichi & Ben Aichi, 2011; AL-Fayoumi, 2010; Anfoos, 2014; Yasin et al., 2018). All of these studies found that intellectual capital has a strong and positive significant effect on TQM practices and organizational performance.

9. Results

The results of this study are summarized as follows:

The level of evaluation of intellectual capital in the target universities is moderate (M= 3.081).

The level of applying unlimited improvement is moderate (M= 3.134). There is a statistically significant impact of intellectual capital (human, structural, relational capital) on unlimited improvement at level (0.01).

10. Suggestions

Based on the findings of the study, the following suggestions can be made:

*Academic leaders in universities should pay attention to the development of their intangible assets in the same way that they are

interested in financing tangible asset.

*The administrative leaders should lay programs and policies which would develop the dimensions of intellectual capital (human, structural, relational capital) continuously and to increase the knowledge of individuals and spread the culture of joint work through the development of training plans that increase the efficiency of employees and their ability to solve Problems in modern and innovative ways.

* Create a positive organizational culture that favours creativity and innovation by directing staff efforts toward unlimited improvement to improve services quality and increase productivity.



References

- Al-Fayoumi, A. M. (2010). The Impact of Intangible Assets To Achieving Competitive Advantage Under Total Quality Management Adoption Comparative. *Dissertation Master Unpublished, Middle East University, Jordan*.
- Al-Sarayra, S., & Al-Najdawi, A. (2012). The Impact of Intellectual Capital on TQM A Field Study: On Pharmaceutical And Non-Pharmaceutical Industrial Companies Public Shareholding Listed At Amman Financial Market. *Economic And Administrative Research*, 20(12), 127–151.
- Anfoos, S. (2014). The Impact of Intellectual Capital Investment on Total Quality Management An Empirical Study of Customs Affairs, *Dissertation Master Unpublished, Applied Scienc University, Kingdom of Bahrain*.
- Ay, O., & Nurov, G. (2017). Impact of Unlimited Improvement on Organization Performance: An Application. *The International New Issues in Social Sciences*, 4(4), 89–95.
- Ben Aichi, B., & Ben Aichi, A. (2011). The Role of Intellectual Capital In Achieving Total Quality In Industrial Establishments. *International Forum on Intellectual Capital In Arab Business Organizations In Modern Economies*, 1–19.
- Benshina, K. (2018). The Relationship Between Unlimited Improvement And Business Performance. *Thecinternational New Issues in Social Sciences Journal*, 6(1), 85– 94.
- Bontis, N., Dragonetti, N. C., Jacobsen, K., & Roos, G. (1999). The Knowledge Toolbox:: A Review of The Tools Available To Measure And Manage Intangible Resources. *European Management Journal*, *17*(4), 391–402. Https://Doi.Org/10.1016/S0263-2373(99)00019-5
- Bontis, N., Keow, W. C. C., & Richardson, S. (2000). Intellectual Capital and Business Performance In Malaysian Industries. *The Journal of Intellectual Capital*, 1(1), 85– 100. Https://Doi.Org/10.1108/14691930010324188
- Córcoles, Y. R. (2012). Towards Improved Information Disclosure on Intellectual Capital. *Global Journal of Human Social Science*, *12*(5), 1–16. Https://Doi.Org/10.1504/ljtm.2000.002892
- Edvinson, L., & Malone, M. (1997). Intellectual Capital: Realizing Your Companys True Value By Finding Its Hidden Brainpower, 1–3.
- Edvinsson, L. (2000). Some Perspectives on Intangibles And Intellectual Capital 2000. Journal of Intellectual Capital, 1(1), 12–16. Https://Doi.Org/10.1108/14691930010371618

Ghadi, M. Y., Al-Tarawneh, N. K., & Al-Qatawenh, A. S. (2018). The Interactional Effects

The International New Issues in Social Sciences (tini-SOS) Year 2020 Winter - Volume 8, Number 1



of Intellectual Capital And Knowledge Management on Applying Total Quality Management (Tqm): A Field Study on Commercial And Islamic Banks Working In Southern Governorates of Jordan. *Mu'tah Lil-Buhuth Wad-Dirasat, Humanities And Social Sciences Series Journal*, 33(4), 13–38.

- Ghorbani, M., Mofaredi, B., & Bashiriyan, S. (2012). Study of The Relationship Between Intellectual Capital Management And Organizational Innovation In The Banks. *African Journal of Business Management*, 6(15), 5208–5217. Https://Doi.Org/10.5897/Ajbm11.2298
- Handzic, M., & Öztürk, E. (2010). University Intellectual Capital : Measurement Model And Application. 2nd International Symposium on Sustainable Development, June 8-9 2010, Sarajevo, 740–747.
- Hsu, Y. H., & Fang, W. (2009). Intellectual Capital And New Product Development Performance: The Mediating Role of Organizational Learning Capability. *Technological Forecasting And Social Change*, 76(5), 664–677. Https://Doi.Org/10.1016/J.Techfore.2008.03.012

Huang, Y. C., & Wu, Y. C. J. (2010). Intellectual Capital And Knowledge Productivity: The Taiwan Biotech Industry. *Management Decision*, 48(4), 580–599. Https://Doi.Org/10.1108/00251741011041364

- Hunter, L., Webster, E., & Wyatt, A. (2005). Measuring Intangible Capital: A Review of Current Practice. Australian Accounting Review. Https://Doi.Org/10.1111/J.1835-2561.2005.Tb00288.X
- Kamukama, N. (2013). Intellectual Capital: Company's Invisible Source of Competitive Advantage. *Competitiveness Review*, *23*(3), 260–283. Https://Doi.Org/10.1108/10595421311319834
- Küçük, O. (2016a). Bilimsel Araştırma Yöntemleri (Scientific Research Methods), Ekin Yayınevi, Bursa.
- Küçük, O. (2016b). Toplam Kalite Yönetimi (Total Quality Management), Seçkin Yayıncılık, Ankara.
- Küçük, O. (2011). A New Practice of Total Quality Management: Unlimited Improvement, "Toplam Kalite Yönetiminde Yeni Bir Uygulama: Sınırsız İyileşme", 11. Ulusal Üretim Araştırmaları Sempozyumu, İstanbul, 23-24 Haziran 2011. 4(2), 257–268.
- Küçük, O., Küçük, N., "Sınırsız İyileşmenin Örgüt Performansına Etkisi: Bir Uygulama", 11. Ulusal İşletmecilik Kongresi, Konya, 10-12 Mayıs 2012, 769-775.
- Martín-De-Castro, G., Emilio Navas-López, J., López-Sáez, P., & Alama-Salazar, E. (2006). Organizational Capital As Competitive Advantage of The Firm. *Journal of*

The International New Issues in Social Sciences (tini-SOS) Year 2020 Winter - Volume 8, Number 1



Intellectual Capital, 7(3), 324–337. Https://Doi.Org/10.1108/14691930610681438

- Roos, G., Bainbridge, A., & Jacobsen, K. (2001). Intellectual Capital Analysis As A Strategic Tool. Strategy & Leadership, 29(4), 21-26. Https://Doi.Org/10.1108/10878570110400116
- Roos, G., & Roos, J. (1997). Measuring Your Company's Intellectual Performance. Long Range Planning, 30(3), 413-426. Https://Doi.Org/10.1016/S0024-6301(97)90260-0
- Salleh, A. L., & Selamat, F. (2007). Intellectual Capital Management In Malaysian Public Listed Companies. International Review of Business Research Papers, 3(1), 266-278.
- Stewart, T. (1997). Intellectual Capital: The New Wealth of Organizations. New York, 30(December), 261. Retrieved From Http://Scholar.Google.Com/Scholar?HI=En&As Sdt=0,5&Q=Stewart+T.A+1997+- 152 +Intellectual+Capital#0
- Subramaniam, M., & Youndt, M. A. (2005). The Influence of Intellectual Capital on The Types of Innovative Capabilities, 48(October), 450–463. Https://Doi.Org/10.5465/Amj.2005.17407911
- Sudarsanam, S., Sorwar, G., & Marr, B. (2003). Valuation of Intellectual Capital and Real Option Models, (October), 29.

