CREATIVITY FOR GAINING AND SUSTAINING COMPETITIVE ADVANTAGE: THE ROLE OF LEADERSHIP STYLES

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ABSTRACT

The main object of this paper is to examine the effect of leadership styles on employee creativity. Thus the research was performed in Iron and Steel, Automotive and Textile industries listed in Istanbul Chamber of Industry's Turkey's Top 500 Industrial Enterprises 2008. As the results of analyses, transformational, transactional and laissez-faire leadership styles have effect on employee creativity (64%), controlling creative personality. Also results show that creative personality had a strong explanatory effect on employee creativity (54,5%). It is determined that, "Challenge & Enjoyment" partially mediated the relationship between leadership styles and employee creativity and it increased employee creativity 16,9%. In addition Climate for Creativity partially mediated the relationship between leadership styles and employee creativity, and it increased employee creativity 14, 9%. On the other hand, Compensation partially moderated between transactional leadership and employee creativity and between transformational leadership and employee creativity; Acceptance partially moderated between transactional leadership and employee creativity, and Goal Setting partially moderated between transformational leadership and employee creativity. Results also show that Compensation had a negative association with creativity. Finally, it was seen that Conservation partially moderated between transformational leadership and employee creativity. This study's theoretical contribution is examination of effects of leadership styles on employee creativity in a comprehensive model; proposing new mediating and moderating variables in this correlation and filling this gap in the research. Furthermore, this study's practical contribution is there is lack of research that consists of stated variables in our model conducted such a wide scope. And finally, this study offers a methodological contribution to empirical studies on employee creativity under different leadership styles to developing countries like Turkey, as it shows the external validity of these theories which were developed and investigated in Western developed countries.

Key Words: Leadership Styles, Employee Creativity, Intrinsic and Extrinsic Motivation, Creative Personality

INTRODUCTION

The depth, breadth, and speed of change that engulfs businesses today, and trends such as globalization, technology advancement, and the knowledge-based economy have put increasing pressure on business creativity and innovation (Ford & Gioia, 1995; Kim & Mauborgne, 2005). A number of factors have resulted in creativity becoming more critical across jobs and organizations. For example, creativity has become and will remain indispensable as organizations and their environments change fundamentally (Ford & Gioia, 1995), and as jobs become more complex and work designs include more autonomy (Oldham & Cummings, 1996). In order to survive, adapt, and gain competitive advantage, organizations need to unleash their employees' innate creative potential, because employees' creative ideas can be used as building blocks for organizational innovation, change, and competitiveness (Amabile, 1988; Woodman, Sawyer & Griffin, 1993, Zhou & George, 2003). Gupta and Singhal (1993) found that successful organizations create competitive advantage in the marketplace through innovation by revealing their employees' creativity. If we view employees as resources in the competitive marketplace, the question then becomes how their creativity can be fostered for the organization's purpose. Until recently, research on employee creativity focused on identifying personal characteristics and work environment that related to creative performance. Although many variables influence employees' creativity in organizational settings, there is reason to suspect that leaders and their behavior represent a particularly powerful influence. The role of the leadership in employee creativity has been researched by organizational scholars in this decade. Research shows that leaders have at their disposal various means to influence creativity in their organizations (Mumford, Scott, Gaddis, & Strange, 2002) and leaders could influence their followers' creativity by altering their leadership style into transformational leadership to expose their creativity (Jung & Avolio, 1999; Kahai, Sosik, & Avolio, 1997; Sosik, Avolio, & Kahai, 1997, 1998; Sosik, Kahai, & Avolio, 1998). Thus, employees' creativity can be fostered for the organization's purpose. Furthermore, most of the research has been conducted in Western countries, primarily in the United States. From the literature review, it is seen that there is lack of research about the role of leadership styles on employee creativity in Turkey. Given the lack of academic research about this topic in Turkey, the aim of this study is to examine the effect of leadership styles on employee's creativity, focusing on the Turkey's Top 500 Industrial Enterprises. In addition, this study analyzes personal characteristics (eg. creative personality, intrinsic motivation, conservation) and work environment (climate for creativity, extrinsic motivation) in this relation. Figure 1 shows our model developed for this purpose.

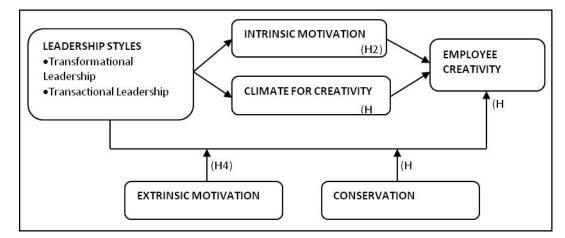


Figure 1: The Proposed Model

According to the proposed model, leadership styles effect on employee creativity (H_1). Employees' intrinsic motivation and climate for creativity mediate this effect (H_2 , H_3). Furthermore, extrinsic motivation and conservation moderate in this effect (H_4 , H_5). On top of all this, our model proposes control variables like creative personality, educational level, and job tenure since they are related to creativity.

THEORETICAL BACKGROUND AND HYPOTHESES Employee Creativity and Leadership Styles

Creativity has been an important topic in our global world as well as in the social sciences for last decades. There has been a growing consensus among creativity researchers regarding the appropriateness of defining creativity in terms of an outcome (Amabile, 1983) such as an idea or product (Amabile, 1988; Woodman, Sawyer & Griffin, 1993). Nonetheless, Amabile's definition of creativity as the "production of novel and useful ideas" (1988:126) has been cited and used in many studies, and has become the most common one (e.g. Oldham & Cummings, 1996; Tierney, Farmer & Graen, 1999; Prabhu, Sutton & Sauser, 2008). Consistent with these studies, we defined creativity as the generation of novel, unique, and original ideas that are related to processes and procedures used in workplace. The bulk of research on creativity over the years has emphasized the examination of employee creativity in workplace (e.g. Amabile, 1988; Oldham & Cummings, 1996; Woodman, Sawyer & Griffin, 1993) as it relates to companies' competitive advantage. Since employees' creativity has seen as a requirement for innovation as well as surviving and adapting in challenging world, and gaining competitive advantage, many researchers seek to find what effects employees' creativity and in which conditions employees' creative performance can be increased. Research refers to leaders' behaviors have a powerful effect and noticeable impact on followers creativity. Therefore, this study examines the leadership styles' effect on employees' creativity. Before digging into the research determining the relationship between employees' creativity and leadership styles, it would be appropriate to give the definition of leadership and expansion of leadership styles.

In the literature, many authors which have interest in studying topic of leadership, offered definitions of leadership and defined this concept as a complex process by which a person influences others, applying his/her leadership attributes like belief, values, ethics, character, knowledge and skills, to accomplish a mission, task or objective and directs the organization in a way that makes it more cohesive and coherent (Yukl, 1989:252; Boune & Kurtz, 1990:183; Nelson & Quick, 1994:358; Cook, Hunsaker & Coffey, 1997:463; Greenberg & Baron, 2000:445). In addition to, it is seen that there are differences in connection with the types of leadership. Burns (1978) was one of the firsts to identify two types of leadership styles, transformational and transactional. Further these leadership styles refined by Bass (1985). Furthermore, accepted common theory about leadership styles came from Bass & Avolio (1995). According to them, leadership styles consist of transformational, transactional and laissez-faire leadership. As to them, transformational leaders motivate others to do more than they originally intended and often even more than they thought possible. They set more challenging expectations and typically achieve higher performances (Bass & Avolio, 1994:3). Factor analytic study by Bass & Avolio (1995) has suggested that transformational leadership_can be conceptually organized along four correlated dimensions: charisma- idealized influence, inspirational motivation, intellectual stimulation and individualized consideration. Using charisma, the leader inspires admiration, respect, and loyalty, and emphasizes the importance of having a collective sense of mission. By inspirational motivation, the leader creates a clear picture of the future state that is both optimistic and attainable, and encourages others to raise their expectations, reduces complexity to key issues and uses simple language to convey the mission. By intellectual stimulation, leaders stimulate their followers' efforts to be innovative and creative by questioning assumptions, reframing problems, and approaching old situations in new ways. By individualized consideration, leaders pay special attention to each individual's needs for achievement and growth by acting as coach or mentor (Bass & Avolio, 1994:3). According to Bass & Avolio (1994:4) transformational leadership

is an expansion of transactional leadership. Transactional leadership emphasizes the transaction or exchange that takes place among leaders, colleagues, and followers. This exchange is based on the leader discussing with others what is required and specifying the conditions and rewards these others will receive if they fulfill those requirements. That is to say, transactional leadership occurs when the leader rewards or disciplines the follower depending on the adequacy of the follower's performance. Transactional leadership diverges from transformational leadership in that the transactional leader does not individualize the needs of subordinates nor focus on their personal development (Northouse, 2001:140). In other words, transactional leader motivates subordinates to perform as expected while the transformational leader typically inspires followers to do more than originally expected (Hartog & Van Muijen, 1997:21). Transactional leadership depends on contingent reinforcement, either positive contingent reward (CR) or the more negative active or passive forms of management by exception (MBE-A or MBE-P). By contingent reward, the leader assigns or gets agreement on what needs to be done and promises rewards or actually rewards others in exchange for satisfactorily carrying the assignment (Bass & Avolio, 1994:4). Leaders who practice management by exception have implicit trust in their workers to finish the job to a satisfactory standard. These leaders do not inspire the workers to achieve beyond expected outcomes (Santora & Sarros, 2001:389). By MBE-A, the leader actively seeks to deviations from rules and standard procedures and takes corrective action when irregularities occur. On the other hand, by MBE-P, the leader take action after deviations and irregularities have occurred and standards are not met (Bass & Avolio, 1994:4). The difference between the two is that in MBE-A, the leader search for deviations, whereas in MBE-P the leader waits for problems to materialize (Bass, 1990; Lowe & Galen Kroeck, 1996; Hartog & Van Muijen, 1997). In essence, both MBE-A and MBE-P types use more negative reinforcement patterns than positive reinforcement pattern described under contingent reward (Northouse, 2001:141). The laissez-faire style is the avoidance or absence of leadership and is, by definition, the most inactive - as well as the most ineffective according to almost all research on the style (Bass & Avolio, 1994:4). There is a negative association between laissez-faire leadership and a variety of subordinate performance, and effort indicators, which implies that laissez-fare leadership is an inappropriate way to lead. By laissez-faire it is meant that the leader is not sufficiently motivated or adequately skilled to perform supervisory duties. While this statement seems to be correct, there are also situations in which highly active leadership is not necessary. Hartog & Van Muijen (1997) state that a less active role of leaders could also lead to empowerment of followers which could even make for a useful component of transformational leadership.

After revealing the leadership literature, it will be convenient to represent some of the studies examining the leadership effect on followers' creativity. In the literature, it is seen that leadership behaviors closely match the determinants of creativity at the workplace, some of which are vision, support for creativity, encouragement and challenge. For example, Bass & Avolio (1995) and Sosik, Kahai, & Avolio (1998) determined in their studies that leader's behaviors especially transformational one, are likely to act as "creativity-enhancing forces": individualized consideration "serves as a reward" for the followers by providing recognition and encouragement; intellectual stimulation "enhances exploratory thinking" by providing support for creativity and challenge, and inspirational motivation "provides encouragement into the idea generation process" by energizing followers to work towards the organization's vision. On the other hand, by highlighting desirable outcomes that would result from a successful discussion (e.g. a long list of ideas, a feeling of satisfaction), a transactional leader can build effort-accomplishment expectancies to extrinsically motivate creativity-relevant contributions to the employees (Kahai, Sosik, & Avolio, 2003:503). However Jung (2000:188) stated that there are no active and intentional efforts made by the transactional leader to enhance followers' creativity. Followers are extrinsically motivated to perform their job under the transactional leader, which may hold creativity at the minimal level (Amabile, 1998).

On the basis of the previous discussion and examination of the research concerned with employee creativity and leadership styles, the following hypothesis is advanced: H₁: Leadership styles effect on employee creativity. Namely, transformational leadership has more positive effect on employee creativity than transactional and laissez-faire leadership.

Intrinsic&Extrinsic Motivation, Employee Creativity and Leadership Styles

In the literature it seen that there are two types of motivation; extrinsic and intrinsic. Intrinsic motivation represents a motivational situation in which employees performs a task due to the sheer fascination of the task itself, rather than for the external outcomes or rewards related to the task whereas external motivation occurs when a task is related to these external outcomes or rewards (Deci & Ryan, 1985). Research show intrinsic motivation is the key ingredient in the creativity (Amabile, 1988, 1998, Amabile et al., 1996). To the effect that, while an employee is intrinsically attracted to a task, he/she is more likely to focus on it explore and experiment with it, hence exhibit more creative performance and behavior (Tierney, Farmer & Graen, 1999). Oldham & Cummings (1996) specified leader behaviors are important determinants of intrinsic motivation and creativity at work. For example, transformational leaders who care for their employees' feelings and needs, facilitate their skill development, show them ways to achieve the goals and express confidence in them are likely to enhance their employees' interest in their tasks.

Based on the discussion above, this study proposes that leadership styles affect employee creativity through intrinsic motivation. Therefore, H_2 : Intrinsic motivation mediates the relationship between leadership styles and employee creativity.

On top of all this, research shows extrinsic motivation also has an incremental effect on creativity (Eisenberger, Rhoades & Cameron, 1999; Eisenberger & Rhoades, 2001; Prabhu, Sutton & Sauser, 2008). Some researchers stated intrinsic motivation has more effect on employee creativity than extrinsic motivation (Amabile, 1983; Hennessey & Amabile, 1988). Deci (1971) specified under certain conditions extrinsic motivation has a negative impact on intrinsic motivation. In addition to, Prabhu, Sutton & Sauser (2008) found extrinsic motivation had a negative impact on creativity when extrinsic motivation at high levels. However, more recent studies have not only negated some of the prior research about the negative impact of extrinsic motivation on creativity, on the contrary, have found that, under certain circumstances, extrinsic motivation was positively related to creativity (Prabhu, Sutton & Sauser, 2008:57, Mumford, Scott, Gaddis, & Strange, 2002). Consequently, there are tasks and duties challenging and interesting (intrinsically motivating) at workplace but there are

also tasks which are extrinsically motivated (Prabhu, Sutton & Sauser, 2008:57). Furthermore, as seen in the research, intrinsic and extrinsic motivation could aid employees' creativity. Intrinsic motivation could be essential for the novelty in the work, although extrinsic motivation can help to ensure a timely and complete output (Prabhu, Sutton & Sauser, 2008:57). Hence, the following hypothesis is advanced: H_4 : Extrinsic motivation moderates the relationship between leadership styles and employee creativity.

Climate for Creativity, Employee Creativity and Leadership Styles

In the literature, many authors defined climate as a cognitive interpretation of an organizational situation that has been labeled "psychological climate". Climate represents signals individuals receive concerning organizational expectations for behavior and potential outcomes of behavior (Scott & Bruce, 1994:582). And research show organizational climate affect employees' creativity (Siegel & Kaemmerer, 1978; Scott & Bruce, 1994; Amabile et al., 1996). Scott & Bruce (1994) specified organizational climate is an important factor for creativity since employees' perceptions of the extent to which creativity is encouraged at the workplace, and the extent to which organizational resources are allocated to supporting creativity influence creative performance. In addition to, employees' perceptions of a creative climate encourages risk-taking and the challenge to use creative approaches at work. Hence, Scott & Bruce (1994) found that existing climate for creativity enhances employee creativity through adequate supplies of resources such as time, equipment, and facilities are critical to employee creativity. On top of all this, research refers leadership styles also have an important effect on employee creativity through its influence on the employees' perceptions of a climate supportive of creativity. Amabile, et al. (1996) and Scott & Bruce (1994) stated the leader can establish a work environment encouraging creativity and create an organizational climate that serves as a guiding principle for more creative work processes. Especially transformational leaders could establish a climate where employees feel challenged and energized to seek creative behaviors for their tasks and duties by intellectually stimulating employees' efforts to be innovative and creative through questioning assumptions, reframing problems, and approaching old situations in new ways and articulating a compelling vision throughout the organization. According to these findings, this study proposes that leadership styles affect employee creativity through creative climate. Therefore, H₃: Climate for creativity mediates the relationship between leadership styles and employee creativity.

Conservation, Employee Creativity and Leadership Styles

Individual beliefs, values and norms effect the relation between leader and follower (Yukl, 1992; Bass, 1997:137). Namely, different employees could evaluate same leader in different ways and react his/her differently. In this context, research refers employees who value conformity, security, and tradition affiliate themselves with their leader (Schwartz, 1994, 1999; Ros, Schwartz & Surkiss, 1999). Employees having "basic individual values" such as conformity, security, and tradition-named *conservation* by Schwartz (1992)-could react positively to the leadership especially to transformational leadership (Jung & Avolio, 1999; Shin & Zhou, 2003). In addition to, values and self concepts act as intervening mechanisms by which leaders influence followers (Lord & Brown, 2001). In contrast to these findings, recent studies (e.g. Kasof et al., 2007) show that creative behavior is discouraged primarily by the tradition value type and secondarily by the conservation - conformity and security value types-. In the present study, we addressed these different findings in the literature, and wanted to ascertain whether creative behavior is prevented or promoted by conservation. Hence the moderating role of conservation is hypothesized: H_5 : Conservation moderates the relationship between leadership styles and employee creativity.

METHODOLOGY

The Main Objective and Scope of the Research

The main objective of this research is to examine the effect of leadership styles on employee creativity. This research comprises industrial enterprises in Iron and Steel, Automotive and Textile Industries listed in Istanbul Chamber of Industry's Turkey's Top 500 Industrial Enterprises 2008. In this context, white collar employees' opinions and attitudes are taken as base.

Data Collection Method, Procedures and Type of Research

This study was performed by explanatory research model. According to this, the effects of leadership styles on employee creativity were explained and identified. *The population of this study* was composed of Turkey's Top 500 Industrial Enterprises listed in Istanbul Chamber of Industry's Turkey's Top 500 Industrial Enterprises 2008. *Research sample* consisted of 187 enterprises of Iron and Steel, Automotive and Textile industries listed in Istanbul Chamber of Industry's Turkey's Top 500 Industrial Enterprises 2008. Data were collected through **structured questionnaires**. In this research **all of the 187 enterprises** in the Turkey's Top 500 Industrial Enterprises list of stated industries **are reached** via e-mail and telephone. The questionnaires are given all of the specified enterprises through face-to-face interviews or via postal 100 each. But some of the participants excused for not answering the questionnaires by reason of their workload or length of the questions in the questionnaire. Hence 187 of 85 specified enterprises returned; thereby **85 specified enterprises of 3548 employees'** answers included in this research. Details of dispersion of the questionnaires to the industries are exhibited in Table 1.

INDUSTRIES	Population (Total Number of Enterprises)	Sample Size (Number of the Enterprises Answered the Questionnaire*)	Sampling Ratio (%)	Number of the Employees Answered the Questionnaire**
Iron and Steel Industry	77	37	48,05	1491
Automotive Industry	49	23	46,94	1025
Textile Industry	61	25	40,98	1032
TOTAL	187	85	45,45	3548

Table 1. Dispersion of the Questionnaires to the Industries

*Minimum 30, maximum 85 questionnaires returned from each enterprises answering questionnaire.

**Number of the employees answered the questionnaire consists of employees answering questions in the questionnaire completely and consistently (questionnaires with missing and inconsistent statements were excluded)

Measures

The questionnaire prepared for white collar employees, consisted of 150 questions in 7 parts for measuring sample's demographic characteristics and variables proposed in the research model; thereby in this research 6 different scales were used. In the first part of the questionnaire, for measuring leadership style (*Independent Variable*) Bass and Avolio's MLQ: Multifactor Leadership Questionnaire was used. MLQ is first developed in 1985 since then it had been improved several times. In this study, MLQ 5X³ translated into Turkish by Yurtkoru (2001) was used. This question-

naire had three dimensions, 36 items all together and measured on a 5 point scale. These dimensions can be seen in Figure 1. In the second part, intrinsic and extrinsic motivation were measured on a 4 point scale by 30 items of WPI: The Work Preference Inventory adapted from Amabile et al. (1994). In the third part, for measuring climate that support creativity, Scott and Bruce's (1994) Climate for the Innovation Measure which has 22 items was used and measured on a 5 point scale. In the fourth part, conservation was measured on an 8 point scale by 16 items of human values test adapted from Schwartz (1992). In the fifth part, creative personality *(control variable)* was measured by 30 adjectives of CPS: Creative Personality Scale adapted from Gough (1979). In the sixth part, employee creativity *(Dependent Variable)* was measured on a 7 point scale by 11 items of Creativity Measure (Self Report) adapted from Muñoz-Doyague et al.(2008). And finally in the last part, demographic questions for measuring descriptives and other control variables such as educational level, and job tenure are asked. Permissions from authors developed these scales for using in the research was granted.

Statistical Analysis

In the direction of testing of the research model and purpose of the research, SPSS 16.0 Statistical Package and following statistical analysis were used. First, for measuring participants' demographic characteristics frequency analyses were done. Second, factor and reliability analyses were performed towards the determination of the factor structures and internal consistencies of the scales. In this context, exploratory factor analysis using principal components method and varimax rotation was conducted on the items of the scales. Third, to determine means, standard deviations and to understand correlations among all factors came out in the factor analysis, descriptive statistics, and Pearson correlation analysis were performed. And last, testing of the effects of the independent variables upon the dependent variables and mediating/moderating effects, multiple regression analyses and hierarchical regression analyses were conducted.

FINDINGS

Frequency Analysis

Demographic questions were analyzed according to frequency. In Table 2, frequency analysis shows the sample of the questionnaire.

	CATEGODIES.		D STEEL STRY	AUTON INDU		TEX INDU	TILE STRY	GEN	ERAL
DEMOGRAPHIC CHARACTERISTICS	CATEGORIES OF VARIABLES	f	%	f	%	f	%	f	%
	Female	368	75,3	176	17,2	223	21,6	767	21,6
Gender	Male	1123	24,7	849	82,8	809	78,4	2781	78,4
	21-29	179	12	315	30,7	339	32,8	833	23,5
	30-40	749	50,2	632	61,7	587	56,9	1968	55,5
Age	41-58	563	37,8	78	7,6	106	10,3	747	21
	Single (Unmarried)	224	15	260	25,4	269	26,1	753	21,2
	Married	1158	77,7	738	72	743	72	2639	74,4
Marital Status	Widowed	109	7,3	27	2,6	20	1,9	156	4,4
	Elementary School	-	-	-	-	3	0,3	3	0,1
	Secondary School	-	-	-	-	4	0,4	4	0,1
	High School	107	7,2	28	2,7	70	6,8	205	5,8
	Vocational School	461	30,9	182	17,8	209	20,3	852	24
	University	803	53,8	671	65,5	661	64,1	2135	60,1
	Master's	119	8	142	13,9	85	8,2	346	9,8
Educational Level	Doctorate	1	0,1	2	0,1	3	0,3	3	0,1
	Research & Development	25	1,7	39	3,8	6	0,6	70	2
	Information Systems	3	0,2	17	1,6	12	1,2	32	0,9
	Foreign Trade	117	7,8	100	9,8	50	4,8	267	7,5
	Administrative Affairs	84	5,6	25	2,4	72	7	181	5,1
	Human Resources	122	8,2	162	15,8	145	14	429	12,1
	Quality Improvement	128	8,6	93	9,1	57	5,5	278	7,8
	Logistics	22	1,4	29	2,9	1	0,1	52	1,4
	Financial Affairs	148	10	17	1,7	89	8,6	254	7,1
	Marketing-Sales	390	26,2	243	23,7	313	30,3	946	26,7
	Planning	64	4,3	22	2,1	51	4,9	137	3,9
	Project Development	5	0,3	29	2,8	9	0,9	43	1,2
	Purchasing	74	5	30	2,9	41	4	145	4,1
	After Sales	-	-	13	1,3	8	0,8	21	0,6
	Research Design	-	-	-	-	10	1	10	0,3
	Technical	15	1	8	0,8	7	0,7	30	0,8
Department	Production	294	19,7	198	19,3	161	15,6	653	18,5
	6 month - 5 years	225	15,1	319	31,1	312	30,2	856	24,1
	5,5 - 10 years	442	29,6	462	45,1	410	39,8	1314	37
	11 -15 years	405	27,2	185	18	221	21,4	811	22,9
	16 - 20 years	291	19,5	57	5,6	84	8,1	432	12,2
Work Experience	21 - 48 years	128	8,6	2	0,2	5	0,5	135	3,8
Job Tenure	4 month - 3 years	285	19,1	224	21,9	247	23,9	756	21,3
(In the Current Firm)	3,5 years - 8 years	715	48	584	57	623	60,4	1922	54,2
	9 -12 years	308	20,7	178	17,3	141	13,7	627	17,7
	13 - 29 years	183	12,2	39	3,8	21	2	243	6,8

Table 2. Sample's Demographic Characteristics

Note. N=3548

Factor and Reliability Analyses

Multifactor Leadership Scale (MLQ). As a result of Cronbach's reliability analysis performed for MLQ, 3 items decreased the reliabilities were eliminated and the scale had a strong reliability (Cronbach's \doteq .969). Therefore factor analysis repeated. After factor analysis (principle component analysis with varimax rotation) was conducted, 3 factors which Eigenvalues \geq 1 obtained consisting of 33 items (KMO=0,943, $X^2_{\text{Bartlett test}}$ (561)=116900 *p*=0,000). Total variance explained was % 74,864. Scale factors were found as in the original, so we named these factors like the original in turn; "Transformational Leadership (*Cronbach* \doteq =.958, % of Variance=42,786)", "Transactional Leadership (*Cronbach* \doteq =.958, % of Variance=42,786)", "Transactional Leadership (*Cronbach* \doteq =.958, % of Variance=42,786)", "Transactional Leadership (*Cronbach* \doteq =.958, % of Variance=42,786)", "Cronbach \doteq =.894, % of Variance=21,731)", "Laissez-Faire Leadership (*Cronbach* \doteq =.84, % of Variance=10,347)".

Intrinsic Motivation Scale (WPI-IM). As a result of Cronbach's reliability analysis performed for intrinsic motivation, 2 items decreased the reliabilities were eliminated and the scale had a strong reliability (Cronbach's \dot{a} = .941). Therefore factor analysis repeated. After factor analysis was performed, 2 factors which Eigenvalues ≥ 1 obtained consisting of 13 items (KMO=0,921, $X^2_{\text{Bartlett test}}$ (78)=37020 *p*=0,000). Total variance explained was %67,896. Scale factors were found unlike the original, so we named these factors in turn as; "Challenge and Enjoyment (*Cronbach á*=.94, % of *Variance*=45,009)", "Self-Expression and Satisfaction (*Cronbach á*=.779, % of *Variance*=22,887)".

Extrinsic Motivation Scale (WPI-EM). As a result of Cronbach's reliability analysis performed for extrinsic motivation, 4 items decreased the reliabilities were eliminated and the scale had a reliability as Cronbach's $\dot{a} = .723$. Therefore factor analysis repeated. After factor analysis was performed, 4 factors which Eigenvalues ≥ 1 obtained consisting of 11 items (KMO=0,689, $X_{Bartlett test}^2$ (55)=18360 p=0,000). Total variance explained was %76,347. Scale factors were found unlike the original, so we named these factors in turn as; "Compensation (*Cronbach á*=.82, % of Variance=23,602)", "Reward (*Cronbach á*=.769, % of Variance=19,074)", "Acceptance (*Cronbach á*=.885, % of Variance=17,082)", "Goal Setting (*Cronbach á*=.704, % of Variance=16,589)".

Climate for Creativity Scale. As a result of Cronbach's reliability analysis performed for climate that support creativity, 3 items decreased the reliabilities were excluded and the scale had a strong reliability (Cronbach's $\dot{a} = .972$). Therefore factor analysis repeated. After factor analysis was performed, 2 factors which Eigenvalues ≥ 1 obtained consisting of 19 items (KMO=0,941, $X^2_{\text{Bartlett test}}$ (171)=81250 *p*=0,000). Total variance explained was %73,744. Scale factors were found unlike the original, so we named these factors in turn as; "Tolerance of Differences (Cronbach \dot{a} =.947, % of Variance=36,901)", "Support for Creativity and Resource Supply (Cronbach \dot{a} =.959, % of Variance=36,843)".

Conservation Scale. As a result of Cronbach's reliability analysis performed for conservation, 7 items decreased the reliabilities were eliminated and the scale had a reliability as Cronbach's $\dot{a} = .803$. Therefore factor analysis repeated. After factor analysis was performed, 1 factor which Eigenvalue ≥ 1 like the original scale obtained consisting of 9 items (KMO=0,877, $X^2_{\text{Bartlett test}}$ (36) =10600 *p*=0,000). Total variance explained was %65,560.

Creativity Scale. As a result of Cronbach's reliability analysis performed for creativity, 2 items decreased the reliabilities were eliminated and the scale had a strong reliability (Cronbach's \dot{a} = .969).Therefore factor analysis repeated. After factor analysis was performed, 1 factor which Eigenvalue ≥ 1 like the original scale obtained consisting of 9 items (KMO=0.915, $X^2_{\text{Bartlett test}}$ (36) =44700 *p*=0.000). Total variance explained was %80,604.

Creative Personality Scale (CPS). Reliability of the CPS was calculated via a weighted composite technique generated by Oldham ve Cummings (1996). As a result of reliability analysis performed for creative personality, 8 adjectives decreased the reliabilities were excluded and the scale had a strong reliability (total alpha .856). Hence, in this study we used Creative Personality Scale consist

ing of 22 adjectives. Therefore, 13 checked adjectives which describe highly creative people was given a value of "+1"; 9 checked adjectives which describe less creative people was assigned a value of "-1". The values were then summed to form a CPS index.

According to the **Tukey's Test of Addivity**, "Climate for Creativity" variable loaded on one factor and items were averaged; but, "Leadership Styles", "Intrinsic Motivation", "Extrinsic Motivation" variables were taken with their factors came out from factor analysis in the following analysis. All of the factor scores in the research were calculated via averaging.

Descriptive Statistics

1. Transformational			٦	2	3	4	S	9	7	8	6	10	П	12	13	14	15
Leadersmp	4,23	0,61	1														
2. Transactional Leadership	4,3	0,61	.607**	1													
3. Laissez-Faire Leadership	4,31	0,7 .	.526**	,696*	1												
4. Challange & Enjoyment	3,41	0,56 .	.533**	,563**	,510**	1											
5. Self-Expression & Satisfaction	3,66	0,41 .	.385**	,466**	,411**	,685**	1										
6. Climate for Creativity	3,88	0,85	.723**	,721**	,588**	,746**	,566**	1									
7. Compensation	2,2	0,62 -,	443** -	0,62 -,443** -,317** -,472** -,641** -,491** -,665**	.,472** -	,641** -	,491** -	,665**	1								
8. Reward	3,05	0,63 -,	0,63 -,049** -,100**	,100**	-,035* -	-,035* -,223** -,050** -,141** ,270**	,050** -	,141** ,	270**	1							
9. Acceptance	2,31	0,99 -,	164** -	0,99 -,164** -,363** -,092** -,402** -,267** -,394**	.,092** -	,402** -	,267** -		,252**	,434**	1						
10. Goal Setting	3,56	0,5 ,	,626**	,648**	,520**	,645**	,579**		344** -	,613** -,344** -,044**-,175**	175**	1					
11. Conservation	6,34	0,59	,445**	,566**	,378**	,392**	,461**		289** -	,488**-,289** -,082**-,365**	365** ,	,469**	1				
12. Employee Creativity	4,83	1,41 ,	,512**	,470**	,463**	,754**	,479**	,660**-,	601** -	,660**-,601** -,142**-,227** ,480**	227** ,	480** ,	,215**	1			
13. Job Tenure ^b	9,77	5,47	0,039	0,075	0,025	-0,078	-0,065	0,009	0,074	0,096 -0,037	0,037	0,024	0,13	-0,07	1		
14. Educational Level ^b	14,47	1,47	0,035	0,047	0,031	0,069	0,055	0,039 -0,053		-0,031	-0,05	,026*	0,008	0,046 -0,322	-0,322	1	
15. Creative Personality	4,14	1,56 ,	,307**	,272**	,297**	,602**	,410**	,428** -,529**	529** -	-,158**-,245**		,294** ,109** ,739**	109** ,		,113**	,042*	1

Table 3. Means, Standard Deviations, and Correlations^a

^a N=3548

^b Job Tenure is measured in years, Education is measured in years completed in the schools

* p<0.05 **p<0.01

Table 3 displays means, standard deviations, and correlations among all the variables. As it is seen, all variables except job tenure and educational level have correlations. Therefore only creative personality was taken as a control variable in the analysis (high correlation with employee creativity).

Regression Analyses

To test research hypotheses, multiple regression analyses and hierarchical regression analyses were conducted. According to the correlations among the independent and mediator/moderator variables exhibited in Table 3 (and in collinearity statistics VIF values < 10), Multicollinearity was not a severe problem that would preclude interpretation of the regression analyses. Also it is determined that there is no autocorrelation since Durbin-Watson test statistics values were close to 2. In this context, stepwise regression method was executed.

Hypothesis 1 relates to the direct effect of leadership styles on employee creativity. Therefore, H_1 was tested using multiple regression analysis (See Table 4).

(Independent)	Variables	Adjusted R ²	F	F sig.	β	Р
1 st Step:	Creative Personality	.545	4258	.000	.635	.000
2 nd Step:	Transformational Leadership	.635	3091	.000	.197	.000
3 rd Step:	Laissez-Faire Leadership	.639	2096	.000	.082	.000
4 th Step:	Transactional Leadership	.640	1579	.000	.070	.001

Table 4. Summary of Multiple Regression Analysis PredictingEffects of Leadership Styles on Employee Creativity

Dependent Variable: Employee Creativity

As exhibited in Table 4, all leadership styles have effect on employee creativity and explanatory rate of the model that has 4 variables is a good explanatory power as .64. Also, it was determined that creative personality had a strong explanatory effect on employee creativity (.545). Therefore, **the findings support H**₁.

Hypothesis 2 and 3 relate to the direct effect of leadership styles on employee creativity and the mediators of this relationship. To test for mediation, Baron & Kenny (1986) suggested a three-step procedure *(meditational analysis procedure)*: (a) the mediator was regressed on the independent variable, (b) the dependent variable was regressed on the independent variable, and finally, (c) the dependent variable was regressed on both the independent variable and on the mediator. However, to test for complete mediation, the independent variable needs to be controlled in the third step. In this context, full (complete, perfect) mediation occurs when the direct effect of the independent variable in this last condition is reduced to zero, otherwise the mediating effect is partial (Baron & Kenny,1986; Robins & Greenland,1992). Hence, multiple regression was performed for step one, but for steps two and three a hierarchical linear regression was employed.

		cicu				
	Variables	Adjusted R ²	F	F sig.	β	Р
Regression 1 ^{1a}	Creative Personality	.362	2012	.000	.469	.000
	Transactional Leadership	.534	2036	.000	.345	.000
	Laissez-Faire Leadership	.543	1405	.000	.131	.000
Regression 1 ^{2a}	Transactional Leadership	.217	983,398	.000	.480	.000
	Creative Personality	.304	774	.000	.306	.000
	Transformational Leadership	.310	532,438	.000	243	.000
	Laissez-Faire Leadership	.322	421,696	.000	.163	.000
Regression 2 ^b	Step 1 (exhibited in Table 4)	.640	1579	.000	.070	.001
	Step 2					
	Challenge & Enjoyment	.568	4671	.000	.396	.000
	Creative Personality	.696	4055	.000	.450	.000
	Transformational Leadership	.714	2959	.000	.162	.000

Table 5. Summary of Regression Analyses Predicting the Mediating Role ofIntrinsic Motivation in the Relation between Leadership Styles and EmployeeCreativity

^{1a} Dependent Variable is Challenge & Enjoyment.
 ^{2a} Dependent Variable is Self-Expression & Satisfaction.
 ^b Dependent Variable is Employee Creativity.

Hypothesis 2 suggested that intrinsic motivation mediated the relationship between leadership styles and employee creativity. As shown in Table 5, the regression coefficient for intrinsic motivation's factor "Challenge & Enjoyment" was significant in contributing to employee creativity when leadership styles were controlled, indicating the mediating role of "Challenge & Enjoyment". The significance of transformational leadership decreased in step 2 whereas transactional and laissez-faire leaderships did not enter into equation, which signified that "Challenge & Enjoyment" partially mediated the relationship between leadership styles and employee creativity. Therefore, H_2 is supported.

		Employee	on cuti i neg	,		
	Variables	Adjusted R ²	F	F sig.	β	Р
	Transformational					.000
Regression 1 ^a	Leadership	.523	3894	.000	.310	
	Creative					.000
	Personality	.570	2351	.000	.221	
	Transactional					.000
	Leadership	.604	1806	.000	.360	
	Laissez-Faire					.003
	Leadership	.605	1360	.000	.047	
	Step 1 (exhibited					
Regression 2 ^b	in Table 4)	.640	1579	.000		
	Step 2					
	Creative					.000
	Personality	.545	4258	.000	.554	
	Climate for					.000
	Creativity	.690	3953	.000	.378	
	Laissez-Faire					.000
	Leadership	.694	2680	.000	.075	

Table 6. Summary of Regression Analyses Predicting the Mediating Role of Climate for Creativity in the Relation between Leadership Styles and Employee Creativity

^a Dependent Variable is Climate for Creativity.

^b Dependent Variable is Employee Creativity.

Hypothesis 3 suggested that climate for creativity mediated the relationship between leadership styles and employee creativity. As shown in Table 6, the regression coefficient for Climate for Creativity was significant in contributing to employee creativity when leadership styles were controlled, indicating the mediating role of Climate for Creativity. The significance of laissez-faire leadership decreased in step 2 whereas transformational and transactional leaderships did not enter into equation, which signified that Climate for Creativity partially mediated the relationship between leadership styles and employee creativity. Therefore, H_3 is supported.

Hypothesis 4 and 5 relate to the direct effect of leadership styles on employee creativity and the moderators of this relationship. To test for moderation, Baron & Kenny (1986) suggested moderated regression analysis: in step 1, the independent variable and the moderator were regressed on the dependent variable; then the interaction term was added into equation in step 2. They noted that if ΔR^2 was significant when interaction term was entered significantly into the equation whereas the independent variable was insignificant, the moderator completely moderates this relationship; otherwise the moderating effect is partial. In addition to, following Aiken & West (1991), any variable used a component of an interaction term was centered before entering it into analysis.

	Adjusted	$\Delta \mathbf{R}^2$		
Variables	\mathbf{R}^2		F	β
Step 1		.13**		
Creative Personality	.545***		4258***	.545***
Transformational Leadership	.635***		3091***	.065**
Compensation	.659***		2282***	208***
Goal Setting	.672***		1818***	.130***
Transactional Leadership	.674***		1466***	.130***
Acceptance	.675***		1227***	.040**
Step 2		.036*		
Creative Personality	.545***		4258***	.529***
Transformational Leadership	.635***		3091***	.084***
Compensation	.659***		2282***	316***
Transactional Leadership X Compensation	.686***		1942***	155***
Transactional Leadership X Acceptance	.700***		1657***	.088***
Goal Setting	.710***		1446***	.132***
Transformational Leadership X Compensation	.710**		1244***	053**
Transformational Leadership X Goal Setting	.711*		1090***	.044*

Table 7. Summary of Hierarchical Regression Analyses Predicting the Moder-
ating Role of Extrinsic Motivation in the Relation between Leadership Styles
and Employee Creativity

*p<0.05 **p<0.01 ***p<0.001

Hypothesis 4 suggested that extrinsic motivation moderated the relationship between leadership styles and employee creativity. Table 7 shows that the regression coefficient for the interaction terms between "Transactional Leadership and Compensation", between "Transactional Leadership and Acceptance", between "Transformational Leadership and Goal Setting" were significant, thereby confirming the moderating role of Compensation between transactional leadership and employee creativity, the moderating role of Goal Setting between transformational leadership and employee creativity, the moderating role of Goal Setting between transformational leadership and employee creativity. In addition to, results show that in the presence of compensation there is a negative relationship between transactional leadership and employee creativity. Hence, H_4 is supported, since Transformational Leadership has entered into equation significantly, whereas transactional leadership did not enter into equation in step 2.

ployee	Creativity			
Variables	Adjusted R ²	$\Delta \mathbf{R}^2$	F	β
Step 1		.095**		
Creative Personality	.545***		4258***	.635***
Transformational Leadership	.635***		3091***	.197***
Laissez-Faire Leadership	.639***		2096***	.082***
Transactional Leadership	.640**		1579***	.070**
Step 2		.002***		
Creative Personality	.545***		4258***	.634***
Transformational Leadership	.635***		3091***	.204***
Laissez-Faire Leadership	.639***		2096***	.084***
Transformational Leadership X Conservation	.640***		1580***	.041***
Transactional Leadership	.642***		1271***	.078***

Table 8. Summary of Hierarchical Regression Analyses Predicting the Moderating Role of Conservation in the Relation between Leadership Styles and Employee Creativity

*p<0.05 **p<0.01 ***p<0.001

Hypothesis 5 suggested that conservation moderated the relationship between leadership styles and employee creativity. Table 8 shows that the regression coefficient for the interaction term between Transformational Leadership and Conservation was significant, thereby confirming the moderating role of compensation between transformational leadership and employee creativity. Therefore, H_5 is **supported**, since all of the leadership styles have entered into equation significantly in step 2.

RESULTS AND DISCUSSION

In this study, the effects of leadership styles on employee creativity were investigated with a comprehensive model at the enterprises of Iron and Steel, Automotive and Textile industries listed in Istanbul Chamber of Industry's Turkey's Top 500 Industrial Enterprises 2008. As the results of analyses, transformational, transactional and laissez-faire leadership styles have effect on employee creativity (64%), controlling creative personality. The findings reveal that especially transformational leadership style has important, positive effect on employee creativity (5%) and this finding is consistent with previous findings of Jung's (2000), Shin & Zhou's (2003) and Gumusluoglu & Ilsev's (2009) studies. According to this study's another valuable finding, employee creativity is higher under the transformational than transactional leader condition, and this finding is consistent with previous findings of Jung's (2000) study. Also results show that creative personality had a strong explanatory effect on employee creativity (54,5%) and this finding is consistent with previous findings of Oldham & Cumming's (1996) study. Therefore, the existence of explanatory powers of the personality on the creativity clearly supports the argument that the personality should not be ignored in the creativity and so management field. In revealing the creative behaviors that are in compliance with the terms and conditions within this context, the personality characteristics possessed by employees should be taken into consideration in the selection of employees. Hence, in this challenging world, enterprises compete with their employees because they are seen as key indicators of intellectual capital, and so important resources of gaining and sustaining competitive advantage. This study's another contribution to the creativity, leadership and management literature is, the potential mediating role of intrinsic motivation was empirically tested. Results show that, "Challenge & Enjoyment" partially mediated the relationship between leadership styles and employee creativity, and had an explanatory power 16,9%, in other words it increased employee creativity 16,9%. This finding is consistent with Prabhu, Sutton & Sauser's (2008) and Shin & Zhou's (2003) studies showing a partial mediating effect of intrinsic motivation. In addition to, mediating role of climate for creativity was empirically tested and it was seen that Climate for Creativity partially mediated the relationship between leadership styles and employee creativity, and it increased employee creativity 14,9%. This finding is consistent with Scott & Bruce's (1994) study showing partial mediating effect of Climate for Creativity. On the other hand, moderating role of extrinsic motivation was tested and it was seen that Compensation partially moderated between transactional leadership and employee creativity and between transformational leadership and employee creativity; Acceptance partially moderated between transactional leadership and employee creativity, and Goal Setting partially moderated between transformational leadership and employee creativity. Results also show that Compensation had a negative association with creativity. In line with the findings of Prabhu, Sutton & Sauser (2008), this research supported extrinsic motivation factors could have both negative and positive effect on creativity changing due to situation. Finally, moderating role of conservation was tested and it was seen that Conservation partially moderated between transformational leadership and employee creativity and it increased employee creativity 9,7%. This finding is consistent Jung & Avolio's (1999) and Shin & Zhou's (2003) determination.

This study's theoretical contribution is examination of effects of leadership styles on employee creativity in a comprehensive model; proposing new mediating and moderating variables in this correlation and filling this gap in the research. Furthermore, this study's practical contribution is there is lack of research that consists of stated variables in our model conducted such a wide scope. And finally, this study offers a methodological contribution to empirical studies on employee creativity under different leadership styles to developing countries like Turkey, as it shows the external validity of these theories which were developed and investigated in Western developed countries.

The results of this study provide important insights about the factors related to the effects of leadership styles on employee creativity. Future studies should focus on exploring this important topic in different cultures and across different types of organizations. Furthermore, such studies should seek to employ quantitative as well as qualitative methods to determine the effects of leadership styles on employee creativity proposing different mediating variables such as cognitive styles of employees, and job complexity and moderating variables such as time pressure in addition to this study's research model.

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