THE EFFECT OF SPIRITUAL AND HUMAN CAPITAL ON INDEPENDENT AUDITOR'S OPINION AMONG IRANIAN AUDITORS

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DEDICATION

This work is dedicated to my parents Mari and Mehdi who provided unconditional love and taught me how to soar on eagle's wings, to my lovely wife Hosna and to my siblings SeyedReza Naslmosavi, Seyedeh Hoda and Syedeh Fatemeh for their love, support and encouragement.

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ABSTRACT

An independent auditor's opinion would enhance the confidence of investors in a reporting system and lead to increased capital markets' efficiency. The influential factors on quality based on an auditor's opinion in financial statements are highly regarded because these factors will ensure that the statements are reliable, useful and relevant to investors and creditors. However, there are effective factors concerning independent auditors that need to be investigated. Correspondingly, the aim of this research was to investigate the effect of spiritual capital (SpC) and human capital (HC) as components of intellectual capital (IC) on independent auditor's opinion (IAO). By exploring moral development, ethical climate and human capital theories, a comprehensive investigation of moral, ethical climate, culture and personal values which represent SpC (individual and organizational aspects), work experience, education, employee competence and skills that characterize HC was carried out. In addition, the mediating effect of human capital on the relationship between audit firms size and IAO was also studied. Quantitative data were collected from questionnaires distributed to 321 practicing audit managers and partners in Iranian audit firms. Multiple regressions with the aid of SPSS were employed to measure the effect of combined SpC and HC on IAO. Besides that, the path analysis method in structural equation model by utilizing LISREL was engaged to measure the relationship among HC (mediator variable), audit firm size and IAO. The results show that SpC and HC have significant effects on IAO. Following that, HC has a mediating effect on the relationship between audit firm size and IAO. Based on the results, this study proposed the moral development and ethical climate theory as appropriate theories to support the SpC as a component of IC. Besides that, the findings have strengthened the understanding of human capital theory through the explanation of the effect of HC on IAO. Overall, the study has highlighted the importance of SpC and HC and it is recommended that auditing standard setting authorities must pave the way for more attention to be given to these capitals in peer reviews.

ABSTRAK

Pendapat juruaudit bebas akan meningkatkan keyakinan pelabur dalam sistem laporan dan membawa kepada peningkatan kecekapan pasaran modal. Faktor yang mempengaruhi kualiti berdasarkan pendapat juruaudit dalam penyata kewangan adalah sangat signifikan kerana faktor tersebut dianggap akan memastikan bahawa penyata yang dikeluarkan boleh dipercayai, berguna dan relevan kepada pelabur dan pemiutang. Walau bagaimanapun terdapat faktor yang berkesan yang berkaitan dengan juruaudit bebas yang perlu diselidiki dalam hal ini. Sehubungan dengan itu, tujuan kajian ini ialah untuk mengkaji kesan modal spiritual (SpC) dan modal insan (HC) sebagai komponen modal intelek (IC) terhadap pendapat juruaudit bebas (IAO). Melalui penelurusan pembangunan moral, teori iklim etika dan teori modal insan, kajian penyelidikan komprehensif tentang moral, iklim etika, budaya dan nilai peribadi yang mewakili SpC (individu dan aspek organisasi), dan pengalaman kerja, pendidikan, kompetensi dan kemahiran pekerja yang bercirikan modal insan telah dilakukan. Selain itu, kajian ini juga menyelidiki kesan perantara modal insan ke atas hubungan antara saiz firma audit dengan IAO. Data kuantitatif dikumpul daripada soal selidik yang diedarkan kepada 321 orang pengamal pengurusan audit dan rakan kongsi mereka dalam firma audit di Iran. Regresi berbilang dengan bantuan SPSS telah digunakan untuk mengukur kesan gabungan SpC dengan HC terhadap IAO. Di samping itu, kaedah analisis laluan dalam model persamaan struktur menggunakan LISREL telah digunakan untuk mengukur hubungan antara HC (perantara boleh ubah), saiz firma audit dengan IAO. Hasil analisis menunjukkan bahawa SpC dan HC mempunyai kesan signifikan terhadap IAO. Selanjutnya, HC mempunyai kesan perantara kepada hubungan antara saiz firma audit dengan IAO. Berdasarkan hasil analisis kajian ini mencadangkan pembangunan moral dan teori iklim etika sebagai teori yang sesuai untuk menyokong SpC sebagai komponen IC. Selain itu, hasil kajian ini memperkukuh pemahaman teori modal insan melalui penjelasan kesan HC terhadap IAO. Secara keseluruhannya, kajian ini telah menonjolkan kepentingan SpC dan HC dan mencadangkan supaya penguasa penetapan standard pengauditan membuka jalan dengan memberikan lebih perhatian kepada modal ini dalam komen rakan sejawat.

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LIST OF ABBREVIATIONS

AAA - American Accounting Association

ASB - Auditing Standards Board

AudSEC's - Auditing Standards Executive Committee

CDP - Continuing Professional Development

CICA - Canadian Institution of Chartered Accountant

CMD - Cognitive Moral Development

CPAQ - CPA's Characteristic Questionnaire

CPE - Continuing Professional Education

CWS - Cognitive Work Space

DIT - Defining Issues Test

ECQ - Ethical Climate Questionnaire

FRC - Financial Reporting Council

GAAS - Generally Accepted Auditing Standards

HC - Human Capital

IC Intellectual Capital

ISQC1 - International Standards on Quality Controls 1

IACPA - Iranian Association of Certified Public Accountants

IAS - International Accounting Standards

IBM - International Business Machines

IES - International Education Standards

IFAC - International Federation of Accountants

OCB - Organizational Citizenship Behaviors

PCAOB - Public Company Accounting Oversight Board

POB - Public Oversight Board (POB)

QRP - Quasi-Peer Review

RC - Relational Capital

RVS - Rokeach Value Survey

SAS - Statement on Audit Standards

SC - Structural Capital

SOX - Sarbanes-Oxley Act

SpC - Spiritual Capital

SpCi - Spiritual Capital (individual view)

SpCo - Spiritual Capital (organizational view)

SEM - Structural Equation Modelling

VIF - Variance Inflation Factor

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Increase in the number of financial statement users was the driving factor behind the creation of auditing. Corporate scandals like Enron debacle and Arthur Andersen's collapse confirmed a requirement for high quality audit and considerable attention towards different factors that may have effect on opinions of independent auditors. High quality of auditor's opinion refers to the production of financial information without misstatements, omissions or biases (DeAngelo, 1981). In the agency theory perspective, Dang (2004) argues that audited financial statements are a monitoring mechanism to provide assurance for users of financial information. Gray and Manson (2005) agree with Dang (2004) and Flint (1988) when they stated that the role of an auditor is to monitor and secure accountability. Hasasyeganeh (2006) and Banimahd (2011) stated that Iranian shareholders' financial decisions are based on Iranian auditors' opinion. The auditing fee as a monitoring expense is acceptable in the financial statements. The authors also mentioned that the auditing fee is a part of agency cost.

The role of independent auditor has been investigated within a variety of perspectives in the literature like: independence, ethics, judgments and reduced audit quality (Windsor and Ashkanasy 1995, Cheng et al. 2009). In order to perform independent role of auditors with high quality, auditor's individual characteristics, audit firm climate and auditee environment such as ethics, values, culture, firm ethical climate, client pressure play instrumental roles for an auditor's decision making abilities (Gray and Manson, 2005; Karacaer et al., 2009). Warming-Rasmussen and Windsor (2003) noted that managers of public companies play an important role for future generation through their influence on economy and social environment, making it critical for the auditors to go beyond investigation of manager's behavior in order to safeguard the public interests. For instance, Culpan and Trussel (2005) commented on Enron's bankruptcy in 2001 and concluded that this bankruptcy was the result of an audit firm's involvement with Enron's leadership to hide delinquencies. Enron's auditors made unethical decisions that crushed Enron shareholders and other beneficiaries (Culpan and Trussel, 2005). Unethical auditor behavior in the Enron scandal put a severe dent on the reputation on many auditing firms (Dewing and Russell, 2004; Carcello et al., 2005).

After the bankruptcy of Enron and WorldCom, in 2002 the United States federal law, 2002 established Sarbanes-Oxley Act for the Public Company Accounting Oversight Board (PCAOB). PCAOB has the task of observing the quality control mechanisms of each firm, assess the value of audit jobs on particular audits and evaluate, either through peers or using processes to audit quality and policies (SAG, 2004). The PCAOB also focused on evaluating individual training programs, the assignment of responsibility, the professional competency of partners, compliance with independent standards, and assessing policies for client satisfaction. These actions on the part of the PCAOB show that human resource also has an important role to play in audit quality (SAG, 2004).

In addition to the perspective mentioned for investigation of related factors to auditor's opinion, this study accordingly recognized factors pertaining to Iranian auditors' opinion and their judgments because independent auditors' opinions affect

users' decisions. As the scholars in auditing area believed that auditors and their abilities in public accounting firms are a major part of their assets (Pennings *et al.*, 1998; Rezaee 2002; Cheng *et al.*, 2009), this study considered these assets as components of intellectual capital (IC). These components of IC can affect auditors' judgment behaviour and their companies' survival under Spiritual Capital (SpC) and Human Capital (HC). SpC in this study relates to moral reasoning, ethics, personal values, culture and ethical climate while HC relates to experience, skill, education and culture. This study finally tested a combined effect of SpC and HC under new terms of intangible assets on independent auditor's opinion.

1.2 Research Background

Auditors are responsible for balancing the various stakeholders' interest by ensuring realistic dissemination of company's financial information in the public interest (International Federation of Accountants, 2005). Fair judgment is one of the important obligations of auditors to protect public interest (Warming-Rasmussen and Windsor 2003), the current study identified influential factors within components of intellectual capital (IC). Iranian audit standards described that attention to code of ethics, independency, accountability and technical trainings are property of Iranian auditors (IACPA, 2013) and they have to follow all professional standards to give fair opinion. In this perspective, the ability of auditors to overcome ethical dilemma conditions is most essential capital for audit firms. Spiritual capital and human capital dimensions were found in literature to be the most related capitals and embedded factors among all the IC components of independent auditor's opinion since they are directly related to human (Sweeney and Roberts, 1997; Windsor and Ashkanasy, 1995; Haniffa and Hudaib, 2007). Spiritual capital includes moral reasoning, ethics, culture, personal values, ethical climate and ethical culture while factors like education, training, work experience, skills are related to human capital.

Literature on accounting and auditing discusses the relationship of the components of spiritual and human capital and auditor's independence, but presents different findings. For instance, Windsor and Ashkanasy (1995) examined the effect of moral reasoning development on auditor's independence in Australia and New Zealand. The result of their study revealed that there is a positive relation between these two variables. Likewise, Sweeney and Roberts (1997) reported that the level of cognitive moral reasoning affects auditor's independent behavior, and the auditor's consideration of client's issues is influenced by moral atmosphere of an audit firm. Ponemon (1990) examined the effect of moral reasoning development on auditor decision-making and reported the alike three levels mentioned in Kohlberg theory. However, Cushing (1990) believed that moral development is separated and needs to be used in more comprehensive models on decision-making. He also proposed that Ponemon (1990) model could be extended by including the effect of economic variables (audit fees) in a materiality judgment situation.

Lampe (1992), on the other hand, examined the code of conduct on the auditors' ethical decision and reported that this code is not sufficient to be regarded as a motivation for auditors to follow ethical behavior. Correspondingly, Ponemon (1988, 1990, 1992, and 1995) and Ponemon and Glazer (1990) tested the effect of cognitive moral reasoning theory on an ethical perspective of auditor's judgment procedures. Ponemon and Glazer (1990) tested the effect of cognitive moral reasoning on an ethical perspective of auditor's judgment procedures. In general, Ponemon and Glazer presented that domain-experience and ethical culture in the firm along with ethical reasoning are related to ethical behavior. Whereas, in conjunction to ethical conduct, Satava (2006) believed that the foundation of financial accounting and auditing is based on the rule-based traditions.

American Institute of Certified Public Accountants (AICPA) on code of professional conduct (2003) defines the concept of a principle–based approach. It describes how the rule-based traditions of auditing translate to a suitable tool for persisting on unethical conduct. AICPA proposed 10 ethical dimensions of rule and principle-based ethical conduct for auditors and accountants. Haniffa and Hudaib

(2007) in their study revealed that code of ethical conduct and auditing standards could reduce the "expectation gap" in auditor's opinion, which is the difference between auditor's performance and the expectation of financial statements users.

Similarly, Falk (1999) investigated the effect of self-interest behavior and ethics on auditor's independence. The result of his empirical study indicates that (i) the probability of client's loss leads to the development of unqualified reports; and (ii) the level of moral reasoning does affect independent judgment.

In addition to moral reasoning and ethical behavior, some researchers examined the effect of culture on auditor's independence. The variable exemplified by Tsui (1996) revealed that multi-national public accounting firms should consider the effect of culture on auditor's behavior as it affects employees. The author reported that ethical behavior is an important element of auditor response in conflict situations.

Parallel to the above, auditing scholar's findings revealed that personal values are related to auditors' independence. For instance; Baker (1976) investigated the differences of values amid accounting and non-accounting major through Rokeach Value Survey (RVS) measuring tool. The author reported a significant difference among accounting student's values and non-accounting student's values. Wright *et al.* (1997) similarly examined the importance of values for auditors. They revealed that the value system and auditor's ability for recognizing ethical issues are important in the success of accounting profession. Moreover, Karacaer *et al.* (2009) examined the effect of personal values on auditor's ethical decisions and found that value affects ethical judgment.

Discussions in the literature demonstrates that ethical conduct, moral and culture are embedded in the heart of a company (Ander, 1995; Brooking, 1996; Ashmos and Duchon, 2000). Thus, new IC model suggested by Ismail (2005)

explains that the firm should pay attention to this intangible capital (Intellectual Capital). New IC model presented that all capitals in spiritual capital are devoted to both individuals and organization. Individual and organizational factors are two types of factors that influence ethical conduct in an organization and have become an area of investigation among the accounting and finance authors (Trevino *et al.*, 1998). Researchers like Trevino (1986), Ferrell *et al.* (1989) and Leo *et al.* (2000) also assert that moral reasoning and personal values as a part of individual characteristics and some terms such as rewards and rules in the company are as a subdivision as organizational factors influence the ethical conduct.

The significance of organizational and social characteristics are linked to the practical perspective, as managers control the work environment, thus their enhanced ability should go beyond the mere moral and value individual factors (Northouse, 2010; Trevino *et al.*, 1998). Moreover, ethics in organization has two dimensions; the first dimension as referred by Victor and Cullen (1987) is related to ethical climate. It determines what members believe is right or wrong and shape their ethical decision-making and behavior. The Second dimension as referred by Trevino (1990) is concerned with ethical culture. The ethical culture of an organization comprises all those aspects and elements of an organization which influence the ethical conduct of its members (Kaptein, 2008).

In addition to individual and the organizational factors, this study employed the components of human capital (education, training, work experience, skills and employee competence) and measured its effects on independent auditor's opinion. Literature indicates the dearth of empirical studies using the dimension of human capital on independent auditor's opinion. Though, there have been a few studies on experience, skills, employee competence, training and educational effect on auditor's opinion (Bröcheler *et al.*, 2004). For instance, Morrise (1998) believed that the components of human capital are expected to play a key role in the description of success and failure of audit firms. Equally, Pennings *et al.* (1998) asserted that the firm survival chance increases with the experience of owners, founders and employees. While, Bröcheler *et al.* (2004) documented that higher levels of

experience during the lifetime of an audit firm, i.e., the aging of the firms' auditors, have a negative effect on firm performance though, experience at the stage of inception has a positive influence on audit firm's performance. The authors noted that higher level in education will increase the audit firm's performance at the time of inception as well as later stages.

However, Bonner's (1990) reported that prior studies have not considered the role of task-specific knowledge and established some problems that have significant correlation with experience such as the role of task-specific knowledge in cue selection and cue weighting in the analytical risk assessment and control risk assessment. Cue selection is included, as many psychology researchers agree that experience is important for superior performance in cue selection. Cue weighting is studied as there are mixed results and opinions in both psychology and accounting as to the importance of experience therein. The result of his study indicated that taskspecific knowledge improves the auditor's performance in analytical risk assessment of both cue-selection and cue-weighting components only. Parallel to that, DeAngelo (1981) delineated that firm size as organizational characteristics which influence the auditor's opinion. The author noted that larger audit firms have high performance; therefore, auditors in larger firms are more independent than auditors in smaller firms. Further, Watts and Zimmerman (1986) argued that a larger firm provides good benefits to its auditors compared to smaller firms; hence, auditors in large firms have stronger incentive to maintain their independence.

Francis and Yu (2009) also tested the impact of the Big 4 firms on audit quality. The study was a compression test of large firms and other small audit SEC registered organizations. The period of observation was from 2003 to 2005. They found that the big firms provided higher quality auditing. However; the findings also showed that there was a systemic difference between the performance results of small firms versus large firms.

Similarly, Sundgren and Svanström (2011) examined how audit quality and audit pricing varied between audit firms (big) and audit offices (small). The authors investigated the relationship between of audit quality and audit fees on audit firm size. They employed disciplinary sanctions as a measure of audit quality. The study investigated four large and four small firms. The result of the study showed that there was a negative association between the likelihood of sanction and the size of the audit office. The results showed that audit fees follow this pattern and indicates this that large audit firms attempt to maintain quality.

1.3 Statement of the Problem

Although, there are studies on the relationship between spiritual capital and the multifaceted level (organizational and individual levels) of development (Dent *et al.*, 2005; Middlebrooks and Noghiu, 2007), a little attention was paid to spiritual capital and independent auditors' opinion. In reaffirming its importance, Warming-Rasmussen and Windsor (2003, p.79) asserted that "the auditor's ability to provide a fair independent opinion is critical for good corporate governance and public". Therefore, this explains how to coordinate and integrate workplace spirituality to introduce and deploy required resources to curtail its consequences and enforce implementation. As the cost of strategy changes in the workplace, some potential disadvantages like inappropriate practice in spirituality will reduce the net income of organization in future (Polley *et al.*, 2005). Anecdotal evidence advocates that various control mechanism have been explored in literature but little investigation has been conducted on spirituality recognition in the work place (Polley *et al.*, 2005).

Similarly, study of reinforcement elements such as employee inner life, meaningful work and community are connected with spirituality in a workplace (Ashmos and Duchon, 2000). Adequate management of spiritual capital is beneficial to favourable ethical climate and potential future drawbacks (Polley *et al.*, 2005).

Spirituality should not be misused (Polley *et al.*, 2005) because it is a key to workers recognition of organizational intentions. Failure to adjust equitably to spiritual work environment exposes one to potential manipulative control (Brown, 2003). Moreover, managers of organizations have to hire practiced employees with high ability to understand and solve errors. In fact, the knowledge and abilities of employees are a part of human capital for all organizations especially audit firms. The ability of auditors to issue unbiased judgment and timely opinion on financial statements would improve the audit firm reputation and also audit firm performance.

Capital market interplay requires focused and careful psychiatry by the auditors; it is decisive on the account of the auditors to stay cautious like judges in the courts (Jenning *et al*, 1991). Auditors' insight concerning the misstatement of financial statements based on their judgment must be independent; as the independent stature of the auditors enable them to proffer the true analysis of the financial happenings to the investors and the creditors by illustrating and reporting the fraudulent portfolio in the audited financial statements (Rezaee, 2002). This shows that valid and unbiased judgment traces back to ability of auditors to find errors and overcome ethical dilemma conditions.

On the other hand, livelihood of auditors relies on receiving auditing fee from clients Ponemon and Gabhart, 1993; Eynon *et al.*, 1997). Although, Hasasyegane (2006) notes that the nature of independence is hidden in client–auditor's relation and auditors as a third party perceptions (Pany and Reckers, 1988; Bonner, 1990; Gul, 1991) should give their opinions based on moral reasoning and ethical behavior (Ponemon and Gabhart, 1994). The differences between the levels of expected presentation as predicted by independent accountants and users of financial statements create "expectation gap" (Jenning *et al.*, 1991; Haniffa and Hudaib, 2007). Hajizadeh (2009) documented that the Iranian auditors' opinion is one of the inflectional factors on Iranian investors to take a decision for trading stocks in the financial market. Hence, the auditors in Iran and also worldwide have to balance their opinions on financial statements based on the interest of some groups such as

clients, firm's management, lenders, creditors and the public (Johnstone *et al.*, 2001; Hajizadeh 2009).

Based on the above discussion, extant literature has identified and confirmed that Iranian auditors, like other auditors in the world, issue opinion on reliability of financial statements. However auditors' judgment is influenced by some factors. This study categorized these factors into four privileged issues in auditing area which described in below.

The first issue is the influence of psychological factors in spiritual capital on Iranian auditor's opinion such as the role of morality, ethics (Trevino and Youngblood, 1990; Ashkanasy *et al.*, 2006), culture and value as personal characteristics (Cowperthwaite, 2010). This study is therefore timely in addressing the impact of individual spiritual factors such as moral, ethics, culture and value on independent auditors' opinion. Alimadad (2010) also notes that Iranian auditors need the sum of the minimum standards of professional conduct and ethical standards that establish procedures for complaints and disciplinary action against any behavior that characterize conservative error. Adjibolosoo (2004, p. 24) construes that SpC "equips the individual to see beyond what the five senses are able to grasp and also furnishes him or her with deeper insights into the non-material world" (Adjibolosoo, 2004, p. 24). Thus, spiritually valued individuals emphasize more on work than personal success, money and power.

There is no specific study on psychological components of IC on Iranian independent auditor's opinion. However, scholars believed that they should explore moral reasoning, ethical behavior, culture and values as a cognitions and psychological aspects of independence (Bamber, 1993; Rest, 1994; Davani, 2009). Cowperthwaite (2010) noted that similar to the personal characteristics of the artists, individual character of the auditor can affect the auditor's judgment. Cowperthwaite (2010, p.180) stated that "The auditor's intelligence, education, approach to ethics,

and cultural values all come into play in conducting an audit engagement". For instance, SAS (1972) in its statement mentions that "the profession has established, through the AICPA's Code of Professional Conduct, precept to guard against the presumption of loss of independence". It is implied that all members of profession should rely on code of ethical conduct as a psychological and practical standards like those used by the Canadian Institute of Chartered Accountants (CICA) and the American Institute of Certified Public (AICPA) (Shaub *et al.*, 1993; Falk *et al.*, 1999).

Additionally, today the atmosphere of workplace has changed. Some issues, such as race, gender and multiculturalism are in the foreground of many decisions, and there is a need to establish an organizational culture that is skilled in interpersonal process (Andre, 1995; Shore *et at.*, 2009; Chen *et al.*, 2012). Accordingly, moral reasoning, ethics, culture and values are the important factors, which can be viewed as the subdivision of IC because it consists of some intangible assets in the company. Hence, it seems that IC investigation of employee psychological effects is potential area of discussion. IC is divided into Spiritual capital (SpC) (Ismail, 2005), Human capital (HC) (Brooking, 1996; Stewart,1997; Edvinsson and Malone, 1997) Structural Capital (SC) (Roos *et al.*, 1997; Sullivan, 1998) and Relational Capital (RC) (Haanes and Lovendahl, 1997; Edvinsson and Malone, 1997; Saint Onge, 2002). Compelling evidences have revealed a significant expectation gap between social values and expectations of society at large and profession with respect to expected auditing standards (Zaid, 1997; Salehi *et al.*, 2009; Ebimobowei and Kereotu, 2011).

Prior studies have amplified the role of psychological aspects of auditor's opinion, articulation was made on the need to critically re-examine the new model of IC developed by Ismail (2005). This examination and possibly a mix of all theories (Moral development theory and Ethical climate theory) can be used to measure the effect of SpC, which will contribute to the measurement of spiritual capital effects as a part of IC.

The second issue was the influence of firm's atmosphere on auditor's opinion in Iran. Most organizations are facing problems of dealing with emotions and ethics as they ignore the spiritual element in their organizational atmosphere (Tichy and Sherman, 1994). Alimadad (2009) believes that Iranian audit firms must have their own internal rules and they should pay attention toward the legitimate expectations of society. He also noted that if Iranian audit firms consider balancing ethical climate then the ethical dilemma will not affect auditors' functions. Similarly, this reaffirms the belief that audit firm's attributes and its moral atmosphere can affect auditors' independency in decision making (Sweeny and Roberts, 1997). Ponemon (1990; 1992) reported that the moral atmosphere and ethical climate in an audit firm have positive influence on auditor's consideration of client's issues. Other than that, litigation cost against auditors is a serious problem which requires on the part of the auditing firms to set some guidelines to foster ethical behavior in their firms. Ponemon (1992), Ashkanasy (1995), and Windsor (2009) strongly recommended ethical and moral training for auditors and accountants under the organizational atmosphere, as training is useful in coping with ethical dilemmas. This creates an issue to the auditors and firms at large, thus an investigation of the effect of organizational atmosphere as a dimension of spiritual capital on independent auditor's opinion is crucial. Therefore, it seems more appropriate to study intensely the influence of critical decisions on codes, ethics and professionalism, and its answers are significant to accountability of auditors (Collins et al., 2007).

Parallel to the two prior issues, the third issue is the influence of the dimensions (education, training, work experience, skills and competence) of human capital (HC) on independent auditor's opinion. Iranian Association of Certified Public Accountants (IACPA) (2013) on Iranian audit standards states that auditor should all be consistent with their training and will always work hard to cope with their problems and give a full report to superiors. Carelessness, manipulation and secrecy are fundamentally wrong. Cheng *et al.* (2009, p. 523) believed that "following the high profile collapses of Enron and WorldCom together with the demise of Anderson, human capital has become a key driver of auditor's quality". In

accordance with Statement on Audit Standards (SAS), "the independent auditor's formal education and professional experience complement one another". Auditors' ability has been construed by the leading accounting authors' empirical findings to be the knowledge of accounting practices. Consistent with the perspective of these authors, this study recognized the effects of education, training, experience, skill and employee's competence as a subdivision of HC on auditor's opinion (Brooking, 1996; Ismail, 2005).

In addition, Bröcheler *et al.* (2004) indicated that the education and experience have an impact on efficiency, effectiveness and behavior of founders, owners, partners and employees. The positive influence of education level on career advancement is clear in the U.S environment and was empirically established (Alford and Strawser, 1990; Bhamornsiri and Guinn, 1991; Siegel *et al.*, 1992). Nevertheless, the effect of education as a part of HC in other places, such as Iran is unclear. Prior researches have examined the effects of specialty and experience on auditor tasks in auditing process (Libby and Ferderick,1990), going—concern evaluations and audit planning (Christ,1993). However, there is a lack of research on HC influencing independent auditor's opinion; therefore the findings of this study fill the existing gap in the accounting literature.

Fourth issue in this study was concerned with the impact of human capital as a mediation role on audit firm size and independent auditor's opinion. As human capital includes education, training, work experience and skills, it may increase the audit firms' quality. In fact, the large audit firms attempt to hire high experienced auditors to enhance the quality and decrease the audit risk to find errors (Francis and Yu, 2009). DeAngelo (1981), Francis and Wilson (1988), DeFond (1992) and Francis and Yu (2009) revealed that the size of audit firm has a significant relationship with auditor quality. Hajizadeh (2009) also noted that auditor quality in Iran would be improved with high level of education, work experience and training. Small Iranian audit firms should find some ways to increase the abilities of their auditors to decrease cost of risk. Besides, Sweeney and Roberts (1997) and also Caramanis and Spathis (2006) advocated that the relationship between size of the

audit firm and independent auditor's opinion is unclear. Therefore, this ambiguity is required to elaborate the suitable alternative to solve this gap. On the basis of human capital definition and its dimensions and other scholars' work in auditing area, lastly this study suggested the mediation role of HC on the relationship between size of the audit firm and independent auditor's opinion.

Similar to the discussion in the problem statement, Iranian audit firms and their auditors faced the same problems. In addition, Iranian auditors' problems also are most important for Iranian audit standard setters to understand the weakness. The research questions of this study are related to Iranian audit firms. Then, this study revolved around the following research questions:

- I. What is the effect of spiritual capital (individual view) and its dimensions on independent auditor's opinion?
- II. What is the effect of spiritual capital (organizational view) and its dimensions on independent auditor's opinion?
- III. What is the effect of human capital and its dimensions on independent auditor's opinion?
- IV. What is the combined effect of spiritual capital and human capital on independent auditor's opinion?
- V. What is the effect of audit firm size on independent auditor's opinion?
- VI. Does human capital mediate the relationship between audit firm's size and independent auditor's opinion?
- VII. What is the effect of audit firm size on human capital?

1.4 Purpose of the Study

The purpose of this study was to investigate the effect of spiritual capital and human capital on independent auditor's opinion. This study aimed to comprehensively examine moral reasoning (pre conventional- conventional and post conventional levels), ethics, culture, value, experience, education, training, employee competence and skill under spiritual and human capital in the context of independent auditor's opinion. Moreover, human capital was utilized as a mediator to examine the relationship between audit firms size on independent auditor's opinion. This study also pursued to examine to the effect of human capital among different sizes of audit firms.

1.5 Objectives of the Study

Based on the problem statement and the questions of this study, the objectives of this research were:

- To examine the effect of spiritual capital (moral, ethics, culture and value) as an individual perspective of spiritual capital on independent auditor's opinion.
- ii. To examine the effect of organizational atmosphere as organizational perspective of spiritual capital on independent auditor's opinion.
- iii. To determine the effect of human capital (experience, education, employee competence and skills) on independent auditor's opinion.

- iv. To examine the combined effect of spiritual capital and human capital on independent auditor's opinion.
- v. To examine the effect of audit firm size on independent auditor's opinion.
- vi. To examine the mediator role of human capital on the relationship between audit firm size and independent auditor's opinion.
- vii. To determine the effect of audit firm size on human capital.

1.6 Significance of the Study

Auditing has become a method of assessing the business growth and success of a company (Public Oversight Board, 2000). Managers as users of the financial statement together with government should know about the factors that influence auditor's opinion and audit quality (DeAngelo, 1981; Liu, 1997; Cheng, *et al.*, 2009; Modarres and Rafiee, 2011). Unfortunately, auditing firms have lack of knowledge on the significance of IC and its effects on independent auditor's opinion; both among auditing firms and financial statements users. This study focused on psychological aspects of independent auditor's opinion by applying supporting theories like moral development theory, ethical climate theory and human capital theory under the new model of IC developed by Ismail (2005). This study has theoretical and practical significance.

Theoretically, this study explored the effect of spiritual capital of individual (SpCi) and spiritual capital of organization (SpCo) on audit managers and partners (independent auditors in audit firms) for audit firms to find the significance of ethical climate on their employees. Moreover contributing to the body of knowledge by applying spiritual capital as a new component of IC in auditing area, furthermore,

examining the human capital effects on independent auditor's opinion would improve the knowledge of audit firms to investment in human capital. This study also explained the mechanism for the financial statement users to improve their judgment on auditors' opinion.

Practically, the results of this study would increase the knowledge of audit firm's partners about the effect of spiritual capital and human capital on their employees. Further, Iranian Association of Certified Public Accountants (IACPA) is a new institution, and it needs some exploration in various areas to determine the strengths and weaknesses of the auditing profession and consequently, articulate the existing rules and policies to improve the weaknesses of the area. It is hoped that the findings of this study would be useful for Iranian government to frame the rules and policies to intensify the auditing practice in Iranian auditing firms.

Finally, this study has contributed to the knowledge in auditing by paving an avenue to understand the various factors that influence the auditor's opinion. The findings of the study may guide external auditors to understand their characteristics in ethical dilemma conditions. Indeed, they can be able to issue a clear opinion on financial statements.

1.7 Scope of the Study

This study was conducted in Iran and it was an empirical research which sought to evaluate the effects of two components of IC (SpC, HC) on independent auditor's opinion. The measurement tool was questionnaire and the respondents of the study included managers, partners and auditors who had the authority to sign audit report. These respondents were selected from Iranian private audit firms (members of IACPA) because this study released some questions on the base of

ethical dilemma which were related to auditor's benefits, while, the salary of Audit Organization's auditors as a governmental firm was from government and they were not concerned on their future incomes.

1.8 Definitions of Terms

The definition of intellectual capital, spiritual capital, human capital and different types of auditor's opinion are as follows;

1.8.1 Intellectual Capital (IC)

In the simplest terms, IC is the difference between market value and intangibles assets in a company and is composed of things such as customer loyalty, trademarks, professional skills, experience, goodwill, technology, process and other intangible resources (Roos *et al.* 1997, Bontis, 1998)

1.8.2 Spiritual Capital (SpC)

SpC is intangible knowledge, faith, belief and emotion embedded in the minds and hearts of individuals and in the heart of organization, which includes vision and direction, principles, values and culture. The individuals and in the heart of organization behave and act with honor, integrity, sincerity, honesty, trust, love,

moral and ethics (Ismail, 2005). Based on the literature review, the following dimensions of spiritual capital are related to auditors.

1.8.2.1 Moral Reasoning and Ethics

Morals are concerned with the principles of right and wrong behavior while "Ethics are basic philosophical conclusions about whether conduct and behavior is right or wrong" (Russell, 1999, p. 31). Universal values determine what is morally right or wrong, whereas set of rules of conduct which is created by a certain society determine what is ethical or unethical behavior (Haron *et al.*, 2006).

1.8.2.2 Culture

The definition presented by Hofstede for culture gives the idea that culture is a "collective mind programming which differentiates the associates of one social group from the other" (Hofstede, 1980, p. 10).

1.8.2.3 Personal Values

Values are a powerful force behind the behavioral responses of individuals (Rokeach, 1973). "Values are thought to be the minimally identified social

psychological notions that have been engaged effectively around all the social disciplines" (Rokeach, 1989, p.776).

1.8.2.4 Ethical Climate

Victor and Cullen (1988, p. 101) stated that "the prevalent views of typical business methods and practices that have moral content" or "those factors of working environment that define what constitutes moral conduct at work." Denison (1996) believed that, climate as embedded in the organizational system of values and it denotes the organizational social structure.

1.8.2.5 Ethical Culture

Ethical culture is "a subset of organizational culture, representing a multidimensional interplay among various formal and informal systems of behavior control that are capable of promoting ethical or unethical behavior" (Trevino *et al.*, 1995, p. 12).

1.8.3 Human Capital (HC)

Human capital includes all individual characteristics such as experience, value, capacities, behavior and knowledge. In fact human capital is composed of

competence; economic based relationship with colleagues, customers and the value creation (Jelčić, 2007). Based on literature in auditing area, work experience, education, employee competence and skills are concerned with independent auditor's opinion.

1.8.4 Audit Firms Size

Size of audit firm can be categorized by the number of staff, the number of clients (Yuniarti, 2011) and the quasi-rent (DeAngelo, 1981; Watts and Zimmerman, 1981). In this study, the number of staff was applied for measuring size.

1.8.5 Independent Auditor's Opinion

AICPA (2006) in its revision on the reports of financial statements (SAS, 1989) explained that, whether an auditor should convey an opinion about the financial statements, or convey that the expression about the opinion cannot be made in the report by an auditor. If an auditor is unable to express an opinion, at least he is supposed to mention the reason in an auditor's report. In such cases, where auditor and financial statements are connected to each other, an auditor is supposed to clearly mention the character of the work done by an auditor. There are few types of independent auditors' opinion, which are mentioned below:

This study included scenarios in the questionnaire to allow auditors show their disagreement with the auditee company on unrecorded tax liabilities in the financial statements. The aim of this part of questionnaire was to measure the independence of auditors in ethical dilemma conditions. The different types of independent auditor's opinion are described below:

1.8.5.1 Unqualified Opinion

AICPA (2006, Au.508) discussed that "An unqualified opinion states that the financial statements present fairly, in all material respects, the financial position, results of operations, and cash flows of the entity in conformity with generally accepted accounting principles".

1.8.5.2 Qualified Opinion

"A qualified opinion states that, except for the effects of the matter(s) to which the qualification relates, the financial statements present fairly, in all material respects, the financial position, results of operations, and cash flows of the entity in conformity with generally accepted accounting principles" (AICPA, 2006, Au. 508).

1.8.5.3 Adverse Opinion

AICPA (2006, Au.508) pointed that "An adverse opinion states that the financial statements do not present fairly the financial position, or results of operations, or cash flows of the entity in conformity with generally accepted".

1.8.5.4 Disclaimer Opinion

A disclaimer of opinion states that the auditor does not express an opinion on the financial statement" because circumstances indicate substantial problem of going concern in client or there are significant uncertainties in the business of client (AICPA, 2006, Au. 508).

1.8.5.5 Dual Opinion

In special condition which the results of investigating on financial statements are different, auditors can issue dual opinion. For example they can issue qualified opinion for balance sheet and unqualified opinion for income statements (Azad, 2013).

1.9 Outline of the Study

This thesis comprises five chapters;

Chapter 1 introduces the study, background of study, discusses the problem statement, objectives, scope, significance of the study and definitions.

Chapter 2 presents the comprehensive review of the literature concerning IC and its components, the history of auditing and opinion of auditors. The effects of SpC and HC on independent auditor's opinion have been discussed in other sections of this Chapter.

Chapter 3 describes the theoretical framework, development of hypotheses, research methodology, data collection and the instruments for analyzing the data. The chapter also consists of two components of intellectual capital (SpC and HC) as independent variables and independent auditor's opinion as a dependent variable in the research framework.

Chapter 4 describes the accuracy and reliability of the measurement model for SpCi, SpCo and HC. The hypotheses were tested using SPSS to exclude the mediator hypotheses. In the mediator section, LISREL tested the mediator multivariate regression.

Chapter 5 discusses the findings and the conclusions of the study and provide recommendations for Iranian auditor opinion and also future research. The chapter also discusses the contribution and limitation of study.

Future research also could fruitfully be built by extending this study in several ways. First, the spiritual capital still needs to be examined among auditors in the world to understand its role on auditors' judgments; second, the culture is integrated to auditors' interpretation of accounting and auditing standards. Therefore, by discovering the differences among cultures will help IACPA and other institutes to improve standards. As human capital is part of audit firms' assets, further research for finding some ways to invest on this capital is vital for audit firms which HC is one of most important assets.`

This study applied three controlling conditions which are (1) tendering, (2) size of fees; and (3) client financial condition in eight short audit scenarios to measure auditors' reaction in ethical dilemma conditions. It seems that other scholars in future should find a comprehensive instrument as new styles to measure auditors' opinion against ethical dilemma conditions.

For measuring moral reasoning, this study used the DIT test. Although, this instrument was a useful tool to understand moral reasoning, it seems that its scoring by researcher was costly, and time consuming to understand and analyze. Therefore, it is recommended to the future researchers to find a more effective way to measure moral reasoning. Furthermore, a researcher who is interested in using DIT, is suggested to simulate some stories related to auditor issues in practice.

This study explored the effect of two components of IC (SpC and HC) on judgment of independent auditors. Further research is suggested to examine of the effects of all components of IC including relational capital (RC) and structural capital (SC) on internal auditors. This is became internal auditors have to advertise their services and good reputation. RC will be useful for them. In addition, the internal auditors can negotiate with their clients on the fee of services and also they can show their flexibility whenever they face ethical dilemma. These flexibilities are a part of SC in IC.

REFERENCES

- Abdolmohammadi, M. J. and Baker, C. R. (2006). Accountants' Value Preferences and Moral Reasoning. *Journal of Business Ethics*, 69, 11-26.
- Abdullah, D. F. and Sofian, S. (2012). The Relationship between Intellectual Capital and Corporate Performance. *Social and Behavioral Sciences*, 40 537 541.
- Abdullah, D. F. and Sofian, S. (2009). Intellectual Capital: It Is Time Malaysian Companies Get Acquainted. *Accountants Today*, 22(7), 22-24.
- Accounting Principles Board. (1970). Intangible Assets (Vol. 17). New York: Institute of Certified Public Accountants.
- Accounting Standards Board. (1997). Goodwill and Intangible Assets (Vol. FRS 10): Accounting Standard Board.
- Adjibolosoo, S. (2004). Responding to a Plethora of Views Regarding the Human Factor Theory: A Friendly Dialogue with Colleagues. *Review of Human Factor Studies*, 10(1), 7-20.
- Agresti, A. and Finlay, B. (1997). *Statistical methods for the social sciences*. New Jersey: Prentice Hall.
- Ahmed, A., Duellman, S. and Abdel-Meguid, A. (2006). Auditor Independence, Corporate Governance, and Abnormal Accruals. *Working Paper*, Texas A&M University.
- Ahmed, A. and Hussainey, K. (2010). Managers' and Auditors' Perceptions of Intellectual Capital Reporting. *Managerial Auditing Journal*, 25(9), 844-860.
- Ajzen, I. (1985). From Intentionsto Actions: A Theory of Planned Behavior. Heidelberg: Springer.
- Ajzen, I. (1991). The Theory of Planned Behavior. *Organizational Behavior and Human Decision Processes*, 50, 179-211.

- Ajzen, I. and Fishbein, M. (1980). *The Understanding Attitudes and Predicting Social Behavior*. Englewood Cliffs: Prentice-Hall.
- Aldhizer, G. R., Miller, J. R. and Moraglio, J. E. (1995). Common Attributes of Quality Audits. *Journal of Accountancy*, 179(1), 61-68.
- Alford, M. R. and Strawser, R. H. (1990). Does Graduate Education Improve Success in Public Accounting? *Accounting Horizons*, 4(1), 69-76.
 Alimadad, M. (2009). Accountants and Ethics. *Journal of Certified Accountant*, 7,27-37.
- Allee, V. (2000). The Value Evolution, Addressing Larger Implications of an Intellectual Capital and Intangible Perspective. *Journal of Intellectual Capital*, 1(1), 17-32.
- American Accounting Association. (1971). A Statement of Basic Auditing Concepts (pp. 2). Sarasota, Florida.
- American Accounting Association. (1973). A Statement of Basic Auditing Concepts, by the Committee on Basic Auditing Concepts. *Studies in Accounting Research*: American Accounting Association.
- American Institute of Certified Public Accountants. (1978). Commission in Auditors' Responsibilities, New York.
- American Institute of Certified Public Accountants. (1991). AICPA Professional Standards, New York, AICPA.
- American Institute of Certified Public Accountants. (2004). Audit Materiality, Statement in Auditing Standards No 220, New York, AICPA.
- American Institute of Certified Public Accountants. (2006). Revised Reports on Audited Financial Statements (1989), Statement on Auditing Standards (SAS) *AU Section* 508 (Vol. 58, 64, 99, 113).
- American Institute of Certified Public Accountants. (2003). Code of Professional Conduct *Preamble 02*.
- American Institute of Certified Public Accountants (2006), Revised on "Report on Audited Financial Statments", 508 (Vol. 58, 59, 64, 79, 85, 93, 98): AICPA.
- Amran, N. A., Fadzil, F. H. and Yusof, N. Z. M. (2010). *Auditing and Assurance Servic-es in Malaysia*. Kuala Lumpur: Prentice Hall.
- Añaña, E. D. and Nique, W. M. (2007). A Professional Category Positioning: The Role of Personal Values and Their Influence on Consumer Perceptions, *Database Marketing & Customer Strategy Management*, 14(4), 289-296.

- Anderson, D. R., Sweeney, D. J. and Williams, T. A. (1999). *Statistics for Business and Economics*. Ohio: South-Western College.
- Andre, R. (1995). Diversity Stress as Morality Stress. *Journal of Business Ethics*, 14, 489-496.
- Andriessen, D. and Boom, M. (2007). Asian and Western Intellectual Capital in Encounter. *Paper Presented at the IC Congress, Inholland University of Professional Education*, Haarlem, The Netherland.
- Anghel, I. (2008). Intellectual Capital and Intangible Assets Analysis and Valuation. Theoretical and Applied Economics, 3(520), 75-84.
- Antle, R. and Nalbuff, B. (1991). Conservatism and Auditor Client Negotiations. *Journal of Accounting Research Supplement*, 29(Supplement).
- Applbaum, A. (1999). Ethics for Adversaries: The Morality of Roles in Public and Professional Life. Princeton: Princeton University Press.
- Arens, A. A., Beaslay, M. S. and Elder, R. J. (2009). *Auditing and Assurance Services: An Integrated Approach*. Englewood Cliffs: Prentice Hall.
- Arens, A. A., Elder, R. and Beasley, M. (2005). *Auditing and Assurance Services: An Integrated Approach*. Englewood Cliffs: Prentice Hall.
- Arens, A. A. and Loebbecke, J. K. (Eds.). (2000). *Auditing and Assurance Services:* an *Integrated Approach*. Englewood Cliffs: Prentice-Hall.
- Armstrong, M. B. (1987). Moral Development and Accounting Education. *Journal of Accounting Education*, 5(Spring), 27-43.
- Arnold, D. F., Bernardi, R. A., Neidermeyer, P. E. and Schmee, J. (2006). The Effect of Country and Culture on Perceptions of Appropriate Ethical Actions Prescribed by Codes of Conduct: A Western European Perspective Among Accountants. *Journal of Business Ethics*, 70, 327-340.
- Ashkanasy, N. M. (1989). Supervisors' responses to subordinate performance, unpublishe Doctral dissertation. The University of Queensland, Brisbane.
- Ashkanasy, N. M., Windsor, C. A. and Trevino, L. K. (2006). Bad Apples in Bad Barrels Revisited: Cognitive Moral Development, Just World Beliefs, Rewards, and Ethical Decision Making. *Business Ethical Quarterly*, 16(1), 449-473.
- Ashmos, D. P. and Duchon, D. (2000). Spirituality at Work: A Conceptualization and Measure. *Journal of Management Inquiry*, 9, 134-145.

- Ashton, A. H. and Brown, H. (1985). Does Consensus Imply Accuracy in Accounting Studies of Decision Making? *The Accounting Review*, 60(2), 173-185.
- Limpanitgul, T., Robson, M. and Soreze, F. (2009). Methodological Considerations in a Quantitative Study Examining the Relationship between Job attitudes and Citizenship Behaviours. *Paper presented at the 18th EDAMBA Summer Academy, Soreze, France*.
- Au, A. K. M. and Wong, D. S. N. (2000). The Impact of Guanxi on the Ethical Deision-Making Process of Auditors an Exploratory Study on Chinese CPAs in Hong Kong. *Journal of Business Ethics*, 28, 87-93.
- Audit Organization.(1982). Audit Organization History, Retrieved from www.audit.org.ir (2011).
- Azad,A.(2013). Dual Opinion in Audit Report. Retrieved from <u>www.</u> iacpa.ir/tabid/160/ (2013).
- Babalola, J. B. (2003). Budget Preparation and Expenditure Control in Education. In Babalola, J.B. (ed) Basic Text in Educational Planning. Ibadan Awemark Industrial Printers.
- Backof, J. and Martin, C. (1991). Historical Perspectives: Development of the Codes of Ethics in the Legal, Medical and Accounting Professions. *Journal of Business Ethics*, 10, 99-110.
- Baker, C. R. (1976). An Investigation of Differences in Values: Accounting Majors vs. Nonaccounting Majors. *The Accounting Review*, 51(4), 886-893.
- Bamber, E. M. (1993). Opportunities in Behavioral Accounting Research, *Behavioral Research in Accounting*, 5, 1-29.
- Banimahd, B. (2011). Investigation of Some Determinants on Unqualified Audit Opinion *Quarterly Journal of Securities Exchange*, 1(3), 59-83.
- Barney, J. B. (2001). Resource-Based Theories of Competitive Advantage: a Ten Year Retrospective on the Resource-Based View. *Journal of Management*, 6, 643-650.
- Baron, R. M. and Kenny, D. A. (1986). The Moderator-Mediator Variable Distinction in Social Psychological Research: Conceptual, Strategic, and Statistical Considerations. *Journal of Personality and Social Psychology*, 51(6), 1173-1182.

- Barriball, K. L. and While, A. E. (1999). Non-response in survey research: a methodological discussion and development of an explanatory model. *Journal of Advanced Nursing*, 30(3), 677-686.
- Becker, C. L., DeFond, M. L., Jiambalvo, J. and Subramanyam, K. F. (1998). The Effect of Audit Quality on Earnings Management. *Contemporary Accounting Research*, 15(1), 1-24.
- Beekun, R. I., Hamdy, R., Westernman, J. W. and Elnaby, H. R. H. (2008). An Exploration of Ethical Decision-Making Processes in the United States and Egypt. *Journal of Business Ethics*, 82, 587-605.
- Belkaoui, A. R. and Picur, R. D. (1991). Cultural Determinism and the Perception of Accounting Concepts. *International Journal of Accounting*, 26(2), 118-130.
- Bennie, N.M. and Pflugrath, G. (2009). The Strength of an Accounting Firm's Ethical Environment and the Quality of Auditors' Judgments. *Journal of Business Ethics*, 87, 237-253.
- Berenson, M. L., Levine, D. M. and Krehbiel, T. C. (2005). *Basic Business Statistics: Concepts and Applications*. Chicago: Prentice Hall.
- Berger, P. L. and Hefner, R. W. (2003). *Spiritual Capital in Comparative Perspective*. Boston University: Institute for Study of Economic Culture, Institute on Religion and World Affairs.
- Bernard, V. L. and Skinner, D. J. (1996). What Motivates Managers' Choice of Discretionary Accruals? *Journal of Accounting and Economics*, 22, 313-325.
- Bhamornsiri, S. and Guinn, R. E. (1991). The Road to PartnerShip in the "Big Six" Firms: Implications for Accounting Education. *Issues in Accounting Education*, 6, 9-24.
- Bisman, J. (2010). Postpositivism and Accounting Research: A (Personal) Primer on Critical Realism. *Australasian Accounting Business and Finance Journal*, 4(4), 1-25.
- Blackburn, S. (1996). *Oxford Dictionary of Philosophy*. Oxford: Oxford University Press.
- Bonner, S. E. (1990). Experience Effects in Auditing: The Role of Task-Specific Knowledge. *The Accounting Review*, 65(1), 72-92.
- Bontis, N. (1998). Intellectual Capital: An Exploratory Study that Develops Measures and Models. *Management Decision*, 36(2), 63-76.

- Bontis, N., Keow, W. C., & Richadson, S. (2000). Intellectual Capital and Business Performance in Malaysian Industries. *Journal of Intellectual Capital*, 1(1), 85-100
- Bontis, N. (2001). Managing Organizational Knowledge by Diagnosing Intellectual Capital: Framing & Advancing the State of the Field *The Strategic Management of Intellectual Capital & Organisational Knowledge*. NewYork: Oxford University Press, Inc.
- Boone, C. and Witteloostuijn, V. (1995). Industrial Organization, and Organizational Ecology: The Potentials for Crossfertilization. *Organization Studies*, 16(2), 265-298.
- Booner, S. E. and Lewis, B. L. (1990). Determinants of Auditor Expertise. *The Accounting Research*, 28, 1-20.
- Bourdieu, P. and Wacquant, L J. (1992). *The Channeling Zone: American Spirituality in an Anxious Age*. Harvard University Press, Cambridge.
- Boynton, W., Johnson, R. and Kell, W. (2001). Modern Auditing. New York: Wiley.
- Brennan, N. and Connell, B. (2000). Intellectual Capital: Current Issues and Policy Implications (Vol. 23). Munich: Annual Congress of the European Accounting Association.
- Bröcheler, V., Maijoor, S. and Witteloostuijn, A. V. (2004). Auditor Human Capital and Audit Firm Survival: The Dutch Audit Industry in 1930-1992. *Accounting Organization and Society*, 29(7), 627-646.
- Brief, A. P., Dukerich, J. M. and Doran, L. I. (1991). Resolving Ethical Dilemmas in Managment: Experimental Investigation of Values, Accountability and Choice. *Journal of Applied Social Psychology* 380-396.
- Brown, R. B. (2003). Organizational Spirituality: The Skeptic's Version. Organization, 10, 393-400.
- Brown, P. A., Stocks, M. H. and Wilder, W. M. (2007). Ethical Exemplification and the AICPA Code of Professional Conduct: An Empirical Investigation of Auditor and Public Perceptions. *Journal of Business Ethics*, 71, 39-71.
- Brown, J. D. (2000). Statistics Corner. Questions and Answers about Language Testing Statistics: What Issues Affect Likert-Scale Questionnaire Formats?. *Shiken: JALT Testing & Evaluation SIG Newsletter*, 4(1), 18-21.

- Brooking, A. (1996). *Intellectual Capital, Core Asset for the Third Millennium Enterprise*. London: International Thomson Business Press.
- Bryman, A. and Bell, E. (2007). *Business Research Methods*. New York: Oxford University Press.
- Brush, C., Greene, P., Hart, M. and Edelman, L. (1997). Resource Configurations Over the Life Cycle of Ventures", in Reynolds, Davidsson *et al.* (Eds), Frontiers of Entrepreneurship Research, 1997. Proceedings of the 1997 *Seventeenth Annual Entrepreneurship Research Conference* Centre for Entrepreneurial Studies.
- Buchan, H. F. (2005). Ethical Decision Making in the Public Accounting Profession: An Extension of Ajzen's Theory of Planned Behavior. *Journal of Business Ethics*, 61, 165-181.
- Burton, J. and Sampson, C. (1974). Future Needs for Auditing Research. *Paper presented at the Conference on Auditing Research, University of Illinois*.
- Caramanis, C. and Spathis, C. (2006). Auditee and Audit Firm Characteristics as Determinants of Audit Qualifications, Evidence from Athens Stock Exchange. *Managerial Auditing Journal*, 21(9), 905-920.
- Carcello, J. V., Hermanson, D. R. and Raghundan, K. (2005). Changes in Internal Auditing During the Time of the Major US Accounting Scandals. *International Journal Auditing*, 9(2), 117-127.
- Casler, D. J. (1964). *The Evolution of CPA Ethics: A Profile of Professionalization*. Michigan, Michigan State University, Mich.
- Campbell, T. and Houghton, K. (2010). *Ethics and Auditing*. The Australian National University: ANU E Press.
- Capaldi, N., Lloyed, G. and Smith, A. (1999). Wealth of Nations: Wiley Online Library.
- Celemi.(1998).Growing a Knowledge Company, Retrieved from http://www.celemi. se/sbc/sbc2.html (2012).
- Cervero, R. M. (2001). Continuing Professional Education in Transition, 1981-2000. International Journal of Lifelong Education, 20(1/2), 16-30.
- Chen, Y.-S., Bao-Ghand and Lee, C.-c. (2008). The Association Between Continuing Professional Education and Financial Performance of Public Accounting Firms. *The International of Human Resource Management*, 19(9), 1720-1737.

- Chen, Y.-S., Chen, S.-P. and Goan, K.-T. (2008). CPE, Market Segmentation, and Competitive Strategies: Evidence of Audit Firms in Taiwan. *Financial Supervisory Commission, Executive Yuan, Taiwan (R.O.C)*
- Chen, X.-P., Liu, D. and Portnoy, R. (2012). A Multilevel Investigation of Motivational Cultural Intelligence, Organizational Diversity Climate, and Cultural Sales:Evidence From U.S. Real Estate Firms. *Journal of Applied Psychology*, 97(1), 93-106.
- Cheng, Y.-S., Chen, Y.-S. and Chen, Y.-C. (2013). Direct and Mediating Effects of Auditor Quality on Auditor Size and Performance. *International Business Research*, 6(11), 134-148.
- Cheng, Y.-S., Liu, Y.-P. and Chien, C.-Y. (2009). The Association Between Auditor Quality and Human Capital. *Managerial Auditing Journal*, 24(6), 523-541.
- Choo, F. (1996). Auditors' Knowledg Content and Judgment Performance: A Cognitive Script Approach. Accounting, Organizations and Society, 21, 339-359.
- Christ, M. Y. (1993). Evidence on the Nature of Audit Planning Problem Presetations: An Examination of Auditor Free Recalls. *The Accounting Review*, 20(2), 297-322.
- Chung, H. and Kallapur, S. (2003). Client Importance, Nonaudit Services, and Abnormal Accruals. *The Accounting Review*, 78(4), 931-955.
- Cohen, J. R., Pant, L. W. and Sharp, D. J. (1995). An Exploratory Examination of International Differences in Auditors' Ethical Perceptions. 7(1), 37-64.
- Colby, A., Gibbs, J., Lieberman, M. and Kohlberg, L. (1983). A Longitudinal Study of Moral Judgment: A Monograph for the Society of Research in Child Development. Chicago: The University of Chicago Press.
- Colby, A., Kohlberg, L., Speicher, B., Hewer, A., Candee, D. and Gibbs, J. (Eds.). (2011). *The Measurement of Moral Judgment* (Vol. 2)., Cambridge: Cambridge University Press.
- Collins, B. E. (1974). Four Components of the Rotter Internal-external Scale: Belief in a Difficult World, a Just World, a Predictable World, and a Politically Responsive World. *Journal of Personality and Social Psychology*, 29(3), 381-391.
- Covey, S. R. (1989). The Seven Habits of Highly Effective People, Powerful Lessons in Personal Change. New York: Simon & Schuster.

- Cowperthwaite, P. (2010). Culture Matters: How Our Culture Affects the Audit. *Accounting Perspectives*, 9(3), 175-215.
- Craswell, A., Stokes, D. J. and Laughton, J. (2002). Auditor Independence and Fee Dependence. *Journal of Accounting and Economics*, 33, 253-275.
- Creswell, J. W. (2003). *Research Design. Quantitative, Qualitative & Mixed Method Approaches* (2nd ed.). United States: Sage Publications.
- Cullen, J. B., Victor, B. and Bronson, J. W. (1993). The Ethical Climate Questionnaire: An Assessment of Its Development and Validity. *Psychological Reports*, 73(2), 667-674.
- Culpan, R. and Trussel, J. (2005). Applying the Agency and Stakeholder Theories to the Enron Debacle: An Ethical Perspective. *Business and Society Review*, 110(1), 59–76.
- Cushing, B. E. (1990). Discussion of Auditor Independence Judgments: A Cognitive Development Model and Empirical Evidence. *Contemporary Accounting Research*, 20(2), 14-23.
- Dang, L. (2004). Assessing Actual Audit Quality. phD, Drexel University, Philadelphia, USA.
- Danish Agency for Trade and Industry. (1998). Intellectual Capital Accounts: New Tool for Companies Copenhagen: DTI Council.
- Davani, G. (2008). Auditing History in Iran, Retrieved from www.dayarayan.net.
- Davani, G. (2009). The Development of New Tools and Financial Institutions to Facilitate the Implementation of Article 44. Retrieved from www.dayarayan.net.
- Dean, A. and Kretschmer, M. (2007). Can Ideas be Capital? Factors of Production in the Postindustrial Economy: A Review and Critique. *Academy of Management Review*, 32, 573–594.
- DeAngelo, L. E. (1981). Auditor Size and Audit Quality. *Journal of Accounting and Economics*, 3, 183-199.
- DeFond, M. L. (1992). The Association between Changes in Client Firm Agency Costs and Auditor Switching. *Auditing: A Journal of Practice and Theory*, 11(Spring), 16-31.
- Deis, D. R. and Giroux, G. A. (1992). Determinants of Audit Quality in the Public Sector. *The Accounting Review*, 67(3), 462-479.

- Denison, D. (1996). What is the Difference Between Organizational Culture and Organizational Climate? A Native's Point of View on a Decade of Paradigm Wars. *Academy of Management Review*, 21(3), 619-654.
- Dent, E., Higgins, M. and Wharf, D. (2005). Spirituality and Leadership: An Empirical Review of Definitions, Distinctions, and Embedded Assumptions. *The Leadership Quarterly*, 16(5), 625-653.
- Dewing, L. P. and Russell, P. O. (2004). Accounting, Auditing and Corporate Governance of European Listed Countries: EU Policy Developments Before and After Enron. *Journal of Common Market Studies*, 42(2), 289-319.
- Dopouch, N., Holthausen, R. and Leftwich, R. (1987). Predicting Audit Qualifications with Financial and Market Variables. *The Accounting Review*, 62(3), 431-454.
- Douglas, P. C., Davidson, R. A. and Schwartz, B. N. (2001). The Effect of Organizational Culture and Ethical Orientation on Accountants' Ethical Judgments. *Journal of Business Ethics*, 34, 101-121.
- Drucker, P. (2003). Post-Capitalist Society. New York: Harper business.
- Duff, W. M., Smieliauskas, W. and Yoos, H. (2001). Business, Computers and Office Automation Industries. *Information Management Journal*, 35(2), 14-30.
- Edvinsson, L. and Malone, M. (1997). *Intellectual Capital: Realizing your Company's True Value by Finding Its Hidden Brainpower*, New York: Harper Business.
- Ebimobowei, A. and Kereotu, O. J. (2011). Role Theory and the Concept of Audit Expectation Gap in South-South, Nigeria. *Current Research Journal of Social Sciences*, 3(6), 445-452.
- Edvinsson, L. and Malone, M. S. (1997). *Intellectual Capital: The Proven Way to Establish Your Company's Real Value by Measuring Its Hidden Brainpower*. London: Judy Piatkus.
- Edvinsson, L. and Stanfelt, C. (1999). Intellectual Capital of Nations for Future Wealth Creation. *Journal of Human Resource Costing and Accounting*, 4(1), 21-33.
- Edvinsson, L. (2000). Some Perspectives on Intangibles and Intellectual Capital. *Journal of Intellectual Capital*, 1(1), 12-16.
- Edvinsson, L. and Sullivan, P. H. (1996). Developing a Model for Managing Intellectual Capital. *European Management Journal*, 14(4), 356-364.

- Einhorn, H. J. (1974). Expert Judgment: Some Nesessary Conditions and an Example. *Journal of Applied Psychology*, 59(5), 562-571.
- Ethics. (2012). Cambridge Business English Dictionary, U.K: Cmberidge
- Etzioni, A. (1988). *The Moral Dimension Toward a New Economics* New York: Free Press.
- Eynon, G., Hill, N. T. and Stevens, K. T. (1997). Factors that Influence the Moral Reasoning Abilities of Accountants: Implications for Universities and Profession. *Journal of Business Ethics*, 16, 1297-1309.
- Fagerlind, A. and Saha, L. J. (1997). *Education and National Developments*. New Delhi: Reed Educational and Professional Publishing Ltd.
- Falk, H., Lynn, B., Mastelman, S. and Shehata, M. (1999). Auditor Independence, Self-Interested Behavior and Ethics: Some Experimental Evidence. *Journal of Accounting and Policy*, 18, 935-428.
- Fallon, M. J. O. and Butterfield, K. D. (2005). A Review of the Empirical Ethical Decision-Making Literature:1996-2003. *Journal of Business Ethics*, 59, 375-413.
- Felix, W. L. and Kinney, W. R. (1982). Research in the Auditor's Opinion Formulation Process: State of the Art. *The Accounting Review*, 57(2), 245-271.
- Ferrell, O. C., Gresham, L. G. and Freadrich, J. (1989). A Synthesis of Ethical Decision Models for Marketing. *Journal of Macromarketing*, 9, 55-64.
- Financial Reporting Council. (2006). Promoting Audit Quality, Discussion Paper, FRC. London.
- Fink, R. (2003). Spiritual Capital: Definitions, Applications, and New Frontiers.

 *Paper presented at the Spiritual Capital Planning Meeting, Penn State University.
- Fisher, D. G. and Sweeney, J. T. (1998). The Relationship Between Political Attitudes and Moral Judgment: Examining the Validity of the Defining Issues Test. *Journal of Business Ethics*, 17, 905-916.
- Flannery, B. L. and May, D. R. (2000). Environmental Ethical Decision Making in the U.S. Metal-Finishing Industry. *Academy of Management Journal*, 43(4), 642-662.
- Flint, D. (1988). *Philosophy and Principles of Auditing an Introduction Basingstoke*:

 Macmillan Education Ltd.

- Foddy, W. (1994). Constructing Questions for Interviews and Questionnaires:

 Theory and Practice in Social Research. Cambridge: Cambridge University

 Press.
- Forcese, D. and Richer, S. (1973). *Social Research Methods*. Englewood Cliffs, New Jersey: Prentice Hall.
- Ford, J., MacCallum, R. and Tait, M. (1986). The Application of Factor Analysis in Psychology: A Critical Review and Analysis. *Personnel Psychology*, 39, 291-314.
- Francis, J. R. and Schipper, K. (1999). Have Financial Statements Lost their Relevance? *Journal of Accounting Research*, 37(2), 319-352.
- Francis, J. R. and Yu, M. D. (2009). The Effect of Big Four Office Size on Audit Quality. *The Accounting Review*, 84(5), 1521-1552.
- Francis, J. R. and E. R. Wilson (1988). "Auditor Changes: A Joint Test of Theories Relating to Agency Costs and Auditor Differentiation." *The Accounting* Review, **63**(4), 663-682.
- Frankel, M. S. (1989). Professional Codes: Why, How and with What Impact? Journal of Business Ethics 8,109-115.
- Frederick, W. C. and Weber, J. (Eds.). (1987). *The Values of Corporate Managers and Their Critics, in W. C. Frederick*. Greenwich: JAI Press.
- Frishkoff, P. (1970). An Empirical Investigation of the Concept of Materiality in Accounting, Empirical Research in Accounting. Selected Studies. *Journal of Accounting Research*, 8, 116-129.
- Fritzche, D. J. (1995). Personal Value: Potential Keys to Ethical Decision Making. *Journal of Business Ethics*, 14, 909-922.
- Fuller JB and K, H. (2001). A Closer Look at the Relationship between Justice Percerptions and Union Participation. 86(6), 1096-1105.
- Gautschi, F. H. and Jones, T. M. (1998). Enhancing the Ability of Business Students to Recognize Ethical Issues: An Empirical Assessment of the Effectiveness of a Course in Business Ethics. *Journal of Business Ethics*, 17, 205-216.
- Gaver, J. J. and Paterson, J. S. (2007). The Influence of Large Clients on Office-level Auditor Oversight: Evidence from the Property Casuality Insurance Industry. *Journal of Accounting and Economics*, 43, 299-320.
- Galliers, R. D. (Ed.). (1991). Choosing Appropriate Information Systems Research Approaches: A Revised Taxonomy. Information Systems Research:

- Contemporary Approaches and Emergent Traditions. Nissen, H.-E., Klein, H.K. & Hirschheim, R. North Holland: Elsevier Science Publishers.
- Giacomino, D. E. and Akers, M. D. (1998). An Examination of the Differences Between Personal Values and Values Types of Female and Male Accounting and Nonaccounting Majors. *Issues in Accounting Education*, 13(3), 565-584.
- Gilligan, C. (1982). In a Different Voice: Women's Conceptions of Self and Morality. *Harvard Educational Review*, 47(4), 481-517.
- Godsell, D. (1993). Auditors' Legal Duties and Liablities in Australia Melbourne, Australia: Longman.
- Goldman, A. and Barlev, B. (1974). The Auditor-Firm Conflict of Interests: Its Implications for Independence. *The Accounting Review*, 49(4), 707-718.
- Gray, L. and Manson, S. (2005). *The Audit Process, Principles, Practice and Cases*. London: International Thomson Business Press.
- Greene, W. H. (2008). *Econometric Analysis*. 6th edition. USA: Pearson Education Inc.
- Gregorio, M.-d.-C., Miriam, D.-V., Pedro, L.-S. and José, N.-L. (2011). Towards 'An Intellectual Capital-Based View of the Firm's Origins and Nature. *Journal of Business Ethics*, 98, 649-662.
- Grotelueschen, A. D. (1990). The Effectiveness of Mandatory Continuing Education for Licensed Accountants in Public Practice in the State of New York, special report by the Mandatory Continuing Education Study Committee.
- Gujarati, D. N. and Porter, D. C. (2008). *Basic Econometrics. 5th edition*. New York, USA: McGraw-Hill/Irwin.
- Gul, F. A. (1991). Size of Audit Fees and Perceptions of Auditors' Ability to Resist Managment Pressure in Audit Conflict Situations. *ABACUS*, 27(2), 162-170.
- Gul, F. A. and Tsui, J. S. L. (1992). A Comparative Study of Auditors' Attitudes to Uncertainty Qualifications: An Empirical test of the Strong Versus' Weak Uncertainity Avoidance Hypothesis. *International Journal of Accounting*, 28(4), 356-364.
- Gul, F. A. and Tsui, J. (1996). Auditors' Behaviour in an Audit Conflict Situation: A Research Note on the Role of Locus of Contorol and Ethical Reasoning. Accounting, Organizations and Society, 21(1), 41-51.
- Gunz, S. and McCutcheon, J. (1998). Are Academics Committed to Accounting Ethics Education? *Journal of Business Ethics*, 17, 1145-1154.

- Guthrie, J., Petty, R., Ferrier, F. and Wells, R. (1999). There is no Accounting for Intellectual Capital in Australia: A Review of Annual Reporting Practices and Internal Measurement of Intangibles Within Australian Organisations. *Paper presented at the International Symposium Measuring and Reporting Intellectual capital: Experiences, Issues, and Prospects, OECD*, Amsterdam.
- Haanes, K. and Lovendahl, B. (1997). *The Unit of Activity: Towards an Alternative to the Theories of the Firm, Strategy, Structure and Style*. Chichester: John Wiley.
- Hair, J. F., Black, W. C., Babin, B. J. and Anderson, R. E. (2010). *Multivariate Data Analysis: A Global Perspective. 7th edition*. Upper Saddle River, New Jersey: Pearson Prentice Hall.
- Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E. and Tatham, R. L. (2006).
- Hajizadeh, M. (2009). Unrealistic Rate and Unethical Audit Firms' Competition. Journal of Certified Accountant 7, 36-38.
- Hasasyegane, Y. (2006). Auditing Philosophy, Scientific and Cultural Publication. Tehran: Agah.
- Hasselager, R. and Jahnsen, O. (1997). Revisor lovginingen Med Kommentarer'2. Udgave, Forlaget, FSR.
- Hamilton, R. E. and Wright, W. F. (1982). Internal Control Judgments and Effects of Experience: Replications and Extensions. *Journal of Accounting Research*, 20(2), 756-765.
- Hamilton, L. C. (2009). *Statistics with Stata: Update for Version 10*. USA: Brooks/Cole, Cengage Learning.
- Haniffa, R. and Hudaib, M. (2007). Locating Audit Expectations Gap Within a Cultural Context: The Case of Saudi Arabia. *International Accounting Auditing & Taxation*, 16, 179-206.
- Haron, H., Ismail, I., Ibrahim, D. N., Saat, M. M. and Shiobara, I. (2006). Factors Influencing Ethical Judgement of Auditors In Malaysia: A Report Submitted to Malaysian Accountancy and Research Education Foundation (MAREF).
- Harrell, A., Chening, E. and Taylor, M. (1986). Organizational-Professional Conflict and the Job Satisfaction and Turnover Intentions of Internal Auditors. *Auditing: A Journal of Practice and Theory*, 5(Spring), 109-121.
- Hatcher, L., O'Rourke, N. and Stepanski, D. J. (2005). A Step-by-Step Approach to Using SAS for Univariate & Multivariate Statistics. Cary, NC: SAS Institute.

- Hay, D., McCourt, L. P., Peter, O. and Andrew, F. (2001). The Ethical Perception of Undergraduate Students in Computer-Related Situations: An Analysis of the Effects of Culture, Gender and Prior Education. *Teaching Business Ethics*, 5(3), 331-356.
- Hayes, A. F. (2009). Beyond Baron and Kenny: Statistical Mediation Analysis in the New Millenium. Communication Monographs, 76, 408-420.
- Hofstede, G. H. (1980). *Culture's Consequences: International Differences in Work-Related Values*. Beverly Hills: Sage.
- Hofstede, G. H. (1983). National Cultures in Four Dimensions a Research-Based Theory of Cultural Differences Among Nations. *International Studies of Management & Organization*, XIII(1-2), 46-74.
- Hofstede, G. H. (1991). *Cultures and Organizations: Software of the Mind*. New York: McGraw Hill.
- Hofstede, G. H. (2001). Culture's Consequences: Comparing Values, Behaviors, Institutions, and Organizations Across Nations. Thousand Oaks: Sage.
- Hofstede, G.H. (2013). The Hofstede Center http://geer-hofstede.com/iran.html (2013).
- Hunt, S. D., Wood, V. R. and Chonko, L. B. (1989). Corporate Ethical Values and Organizational Commitment Marketing. *Journal of Marketing*, 53, 79-90.
- Hoyle, N. (1995). Structural Equations Modeling: Concepts, Issues and Applications. USA: SAGE Publication, Inc.
- Iranian Association of Certified Public Accountants. (2013). The Number of IACPA's Members, from www.iacpa.ir.
- Iranian Association of Certified Public Accountants. (1993). The Structure of Iranian Association of Certified Public Accountants, Retrieved from www.iacpa.ir (2013).
- International Accounting Standards Committee. (1998). Intangible Assets (Vol. IAS 38,98). London: International Accounting Standards Committee.
- International Federation of Accountants. (1995). "Objective and General Principles Governing an Audit of Financial Statements" International Standards on Auditing No. 1. New York: International Federation of Accountants.
- International Federation of Accountants. (1998). The Measurement and Management of Intellectual Capital: An Introduction. IFAC: (Vol. Study 7).

- International Federation of Accountants.(2005). Guidelines on Ethics for Professional Accountants.New York: IFAC.
- International Standard on Auditing. (2009). Materiality in Planning and Performing an Audit 320: IFAC.
- International Standard on Auditing. (2009). Evaluation of Misstatements Identified During the Audit (Vol. ISA (450)).
- Isaac, R. G., Herremans, I. M. and Kline, T. J. (2010). Intellectual Capital Management Enablers: A Structural Equation Modeling Analysis. *Journal of Business Ethics* 93, 373-391.
- Ismail, M. (2005). The Influence of Intellectual Capital on the Performance of Telekom Malaysia. Ph.D. Thesis, Universiti Teknologi Malaysia.
- Jelčić, K. (2007). *Intellectual Capital Handbook of IC Management in Companies*. Zagreb: Intellectual Capital Center Croatia.
- Jenning, M. M., Reckers, P. M. J. and Kneer, D. C. (1987). The Adequacy of Auditor Disclosures in Financial Statements: Does More Disclosure Mean less Liability? Does Acknowledgment of Non-discloure Alleviate Liability? Wall Street Journal, 9, 283-293.
- Jenning, M. M., Reckers, P. M. J. and Kneer, D. C. (1991). The Auditor's Dilemma: The Incongrous Judical Notions of the Auditing Profession and Actual Auditor Practice. *American Business Law Journal*, 29(1), 99-125.
- Johnson, H. T. and Kaplan, R. S. (1987). *Relevance lost: The Rise and Fall of Management Accounting*. Boston: Harvard Business Press.
- Jones, S. (2005). Exploring the Global Marketplace: Succeeding locally Involves Thinking Globally. *Journal of Accountancy*, 20 (4).250-260
- Jones, T. M. (1991). Ethical Decision Making by Individuals in Organizations: An Issue Contingent Model. *Academy of Management Review*, 16, 366-395.
- Kamaludin, A. and Rahman, R. A. (2009). Enhancing Organisation Effetiveness Through Human, Relational and Structural Capital: An Empirical Analysis. *Malaysian Accounting Review*, 8(1), 1-17.
- Kaplan, R. and Norton, D. (1992). The Balanced Scorecard Measures that Drives Performance. *Harvard Educational Review*, 70(1), 71-90.
- Kaplan., R. and Norton, D. (1996). Using the Balanced Scorecard as a Strategic Managment System. *Harvard Bussiness Review*, 74(1), 75-85.

- Kaptein, S. P. (2008). Developing and testing a measure for the ethical culture of organizations: the corporate ethical virtues model. *Journal of Organizational Behavior*, 29(7), 923-947.
- Karacaer, S., Gohar, R., Aygün, M. and Sayin, C. (2009). Effects of Personal Values on Auditor's Ethical Decisions: A Comparison of Pakistani and Turkish Professional Auditors. *Journal of Business Ethics*, 88(1), 53-64.
- Kaufmann, L. and Schneider, Y. (2004). Intangibles: A Synthesis of Current Research. *Journal of Intellectual Capital*, 5(3), 366-388.
- Key, S. (1999). Organizational Ethical Culture: Real or Imagined? *Journal of Business Ethics*, 20, 217-225.
- Khaki, G. (2007). Research Methodology. Tehran: Baztab.
- Klein, H. and Myers, M. (1999). A Set of Principles for Conducting and Evaluating Interpretive Field Studies in Information Systems. MIS Quarterly, 23(1), 67-94.
- Ketchand, A. A., Morrise, R. E. and Sharf, W. E. (1999). An Analysis of the Role of Moral Intensity in Auditing Judgments. *Research on Accounting Ethics*, 5, 249-269.
- Knapp, M. C. (1987). An Empirical Study of Audit Committee Suport for Auditor Involved in Technical Disputes with Clients. *The Accounting Review*, 62(3), 578-588.
- Kohlberg, L., Stage and Sequence. (1969). *The Cognitive-Developmental Approach to Socialization*. Chicago: Rand Mcnally.
- Kohlberg, L. (1969). Stage and Sequence: The Cognitive-Developmental Approach to Socialization In Handbook of Socialization Theory and Research. Chicago: Rand McNally.
- Kohlberg, L. (1976). Moral Stages and Moralization: The Cognitive-Developmental Approach. In Moral Development and Behavior: Theory, Research, and Social Issues. New York: Holt Rinehart & Winston.
- Kohlberg, L., Levine, C. and Hewer, G. (1983). *Moral Stages: A Current Formulation and a Response to Critics*. New York: Karger.
- Kohlberg, L. and Lickona, T. (Eds.). (1976). Moral Stages and Moralization: The Cognitive-Developmental Approach. Moral Development and Behavior. New York: Holt, Rinehart & Winston.

- Kopelman, R. E., Brief, A. P. and Guzzo, R. A. (1990). *The Role of Climate and Culture in Productivity. In B. Schneider, ed.,Organizational Climate and Culture*. San Francisco: Jossy-Bass.
- Kristandl, G. and Bontis, N. (2007). Constructing a Definition for Intangibles Using the Resource Based View of the Firm. *Management Decision*, 45(9), 1510-1524.
- Kuenzi, M. (2008). *An integrated Model of Work Climate*. PhD, University of Centeral Florida.
- Lampe, J. C. and Finn, D. W. (1992). A Model of Auditor's Ethical Decision Processes. *Auditing: A Journal of Practice and Theory*, 11 (Supplement), 33-59.
- Lara, J. M. G., Osma, B. G. and Penalva, F. (2010). Conditional Conservatism and Cost of Capital. *Review of Accounting Studies*, 16(2), 247-271.
- Lavee, Y. (1988). Linear Structural Relationships (LISREL) in Family Research. Journal of Marriage and the Family, 50, 937-948.
- Lee, M. and F, C. L. (2001). A Cost/Benefit Approach to Understanding Service Loyalty. *Journal of Services Marketing*,, 15 (2), 113-130.
- Leo, T. W., Ferrell, L. and Mansfield, P. (2000). A Review of Empirical Studies Assessing Ethical Decision-Making in Business. *Journal of Business Ethics*, 25, 185-204.
- Lerner, M. J. (1980). *Belief in a Juast World: A Fundamental Delusion*. New York: Plenum Press.
- Lerner, M. J. (1991). The Beilef in a Just World and the "Heroic Motive": Searching For "Constants" in the Psychology of Religious Ideology. *The International Journal for the Psychology of Religion*, 1(1), 27-32.
- Levin, W. C. (1988). *Sociological Ideas: Concepts and Applications*. California: Wadsworth.
- Li, B. (2000). Ethics Teaching in Medical Schools *Special Supplement, Hastings Center Report*, 30(4), 830-832.
- Libby, R. (1985). Availability and the Generation of Hypotheses in Analytical Review. *Journal of Accounting Research*, 32(2), 648-667.
- Libby, R. and Frederick, D. M. (1990). Experince and the Ability to Explain Audit Findings. *Journal of Accounting Research*, 28(2), 348-367.

- Lifton, P. D. (1985). Individual Differences in Moral Development: The Relation of Sex, Genders, and Personality to Morality. *Journal of Personality*, 53(2), 306-334.
- Limpanitgul, T., Robson, M. and Soreze, F. (2009). Methodological Considerations in a Quantitative Study Examining the Relationship between Job attitudes and Citizenship Behaviours. *Paper presented at the 18th EDAMBA Summer Academy, Soreze, France*.
- Liu, C. (1997). *Legal Liability, Human Capital Investment, and Audit Quality*. Ph.D. Dissertaion, University of National Taiwan University, Taipei.
- Ljeras, C. (2005). Path Analysis. Encyclopedia of Social Measurement, 3, 25-30.
- Lord, A. T. and Dezoort, F. T. (2001). The Impact of Commitment and Moral Reasoning on Auditors' Responses to Social Influence Pressure.

 **Accounting, Organizations and Society, 26, 215-235.
- Lowry, D. (2003). An Investigation of Student Moral Awareness and Associated Factors in Two Cohorts of an Undergraduate Business Degree in a Ritish University Implications for Business Ethics Curriculum Design. *Journal of Business Ethics*, 48, 7-19.
- Mangena, M., Pike, R. and Li, J. (2010). Intellectual Capital Disclosure Practices and Effects on the Cost of Equity Capital: UK Evidence, Research Report. Edinburgh: The Institute of Chartered Accountants of Scotland.
- Marimuthu, M., Arokiasamy, L. and Ismail, M. (2009). Human Capital Development and Its Impact on Firm Performance: Evidence from Developmental Economics. *The Journal of International Social Research*, 2(8), 265-272.
- Marr, B. and Moustaghfir, K. (2005). Defining Intellectual Capital: A Three-Dimensional Approach. *Management Decision*, 43(9), 1114-1128.
- Martinez, S. A. (2002). Reforming Medical Ethics Education. *The Journal of law, Medicine & ethics*, 30(3), 452-454.
- Mashayekhi, B. and Mashayekh, S. (2008). Devalopment of Accounting in Iran. *The International Journal of Accounting*, 43(1), 66-86.
- Matthews, D. (2006). A History of Auditing: The Changing Audit Process in Britain from the Nineteennth Century to the Present Day (Vol. 1). Abingdon: Taylor & Francis Group.

- Mautz, R. (1984). Self-regulation: Criticisms and a Response. *Journal of Accountancy*, 157(4), 57-66.
- Mautz, R. and Sharaf, H. (1961). *The Philosophy of Auditing*. Sarasota, FL: American Accounting Association.
- Mayhew, B. W. (2001). Auditor Reputation Building. *Journal of Accounting Research*, 39(3), 599-617.
- Mayo, A. (2000). The Role of Employee Development in the Growth of Intellectual Capital. *Personnel Review*, 29(4), 521-533.
- MacKinnon, D. P., Krull, J. L. and Lockwood, C. M. (2000). Equivalence of the Mediation, Confounding, and Suppression Effect. Prevention Science, 1, 173-181.
- Mcphail, K. (2001). The Other Objective of Ethics Education: Re- Humanising the Accounting Profession: A Study of Ethics Education in Law, Engineering, Medicine and Accountancy. *Journal of Business Ethics*, 34, 279-298.
- Meinhardt, J., Moraglio, J. F. and Steinberg, H. I. (1987). Governmental Audits: An Action Plan for Excellence. *Journal of Accountancy*, 164(1), 86-91.
- MERITUM. (2002). Guidelines for Managing and Reporting on Intangibles (Intellectual Capital Report). Madrid: Airtel-Vodafone Foundation.
- Middlebrooks, A. and Noghiu, A. (2007). Reconceptualizing Spiritual Capital: A Meso-model for Organizational Leadership, in Sunita Singh-Sengupta & Dail Fields (Eds.), Integrating Spirituality and Organizational Leadership. India: MacMillan.
- Mirshekary, S. and Saudagaran, S. M. (2005). Perception and Characteristics of Financial Statment Users in Developing Countries: Evidence from Iran. *International Accounting Auditing & Taxation*, 14(1), 33-54.
- Minisota. (2013). *Center for the Study of Ethical Development DIT Manuel, Manual for the Defining Issues Test,* . Burton Hall: University of Minnisota
- Modarres, A. and Rafiee, A. (2011). Influencing Factors on the Ethical Decision Making of Iranian Accountants. *Social Responsibility Journal*, 7(1), 136-144.
- Modgil, S. and Modgil, C. (Eds.). (1986). *Lawrence Kohlberg: Consensus and Controversy*. Philadelphia: Falmer Press.
- Moeckel, C. (1990). The Effect of Experience on Auditors' Memory Errors. *Journal of Accounting Research*, 28(2), 368-378.

- Mohamed, E. K. A. and Lashine, S. H. (2003). Accounting Knowledge and Skills and the Challenges of a Global Business Environment. *Managerial Finance*, 29(7), 3-16.
- Molina, J. A. and Ortega, R. (2003). Effects of Employee Training on the Performance of North-American Firms. *Applied Economics Letter*, 10(9), 549-552.
- Moon, Y. J. and Kym, H. G. (2006). A Model for the Value of Intellectual Capital. *Canadian Journal of Administrative Sciences*, 23(3), 253-269.
- Morrise, T. and Empson, L. (1998). Organisation and Expertise: An Exploration of Knowledge Bases and Managment of Accounting and Consulting Firms *Accounting, Organizations and Society*, 23(5/6), 609-624.
- Momeni, M. and Azar, A. (2004). *Application of Statistics and Management* (Vol. 1). Tehran: Samat.
- Montgomery D, Peck, E. A. and Vining, G. (2012). *Introduction to Linear Regression Analysis*, 5th Edition: Wiley.
- Mowday, R. T., Streets, R. M. and Porter, L. W. (1979). Measurement of Orgnizational Commitment. *Journal of Vocational Behavior*, 11(2), 224-247.
- Nachmias, C. F. and Nachmias, D. (1996). *Research Methods in Social Science*. London: Edward Arnold.
- Nafisi, M. (2000). Birth of Accounting and Auditing in Iran. Hesabdar, 34, 1-3.
- Naumann, S. and Bennett, N. (2000). A Case for Procedural Justice Climate: Development and Test of a Multilevel Model. *Academy of Managment Journal*, 43, 881-889.
- Nerdrum, L. and Erikson, T. (2001). Intellectual Capital: A Human Capital Perspective. *Journal of Intellectual Capital*, 2(2), 127-135.
- Neter, J., Kutner, M. H. and Nachtsheim, C. (2003). *Applied Linear Regression Models*. Chicago: Irwin.
- Nonis, S. and Swift, C. O. (2001). Personal Value Profiles and Ethical Business Decisions. *Journal of Education for Business*, 76(5), 251-256.
- Northouse, P. G. (Ed.). (2010). *Leadership: Theory and Practice* (15 ed.). California: Saga.

- Nunner-Winker, G. (1984). Two Moralities? A Critical Discussion of an Ethic of Care and Responsibility vs. an Ethics of Right and Justice, in W. M. Kurtines and T.A. Development (pp. 348-361). New York: Wiley.
- Olaniyan, D. A. and Okemakinde, T. (2008). Human Capital Theory: Implications for Education Development. *European Journal of Scientific Research*, 24(2), 157-162.
- O'Keefe, T. and Westort, P. (1992). Conformance to GAAS Reporting Standards in Municipal Audits and the Economics of Auditing: The Effects of Audit Firm Size, CPA Examination Performance, and Competition. *Research in Accounting Regulation*, 6, 39-77.
- Organization for Economic Co-operation and Development, (1999). Measuring Reporting Intellectual Capital: Experinces, Issues, and Prospects. *Paper presented at the Guidelines and instructions for OECD Symposium*, Amsterdam, OECD, Paris.
- Organization for Economic Co-operation and Development. (2001). The Well-Being of Nations: The Role of Human and Social Capital. *OECD*. Paris.
- Pany, K. and Reckers, M. J. (1988). Auditor Performance of MAS: A Study of Its Effects on Decisions and Perceptions. *Accounting Horizons*, 55, 31-38.
- Pearlstein, S. (2002, Friday 28 June). In Blossoming Scandal, Culprits are Countless, *Washington Post*.
- Pennings, J. M., Lee, K. and Witteloostuijn, A. (1998). Human Capital, Social Capital, and Firm Dissolution. *Academy of Management Journal*, 41(4), 425-440.
- Petroni, K. R. and Beasley, M. (1996). Errors in Accounting Estimates and Their Relation to Firm Type. *Journal of Accounting Research*, 34, 151-171.
- Petty, R. and Guthrie, J. (2000). Intellectual Capital Literature Review Measurement, Reporting and Management. *Journal of Intellectual Capital* 1(2), 155-176.
- Pflugrath, G., Martinov-Bennie, N. and Chen, L. (2007). The Impact of Codes of Ethics and Experience on Auditor Judgments. *Managerial Auditing Journal*, 22(6), 566-589.
- Piaget, J. (1965). *The Moral Development of the Child*. New York; Simon & Schuster (Original work published in 1932).

- Polley, D., Vora, J. and SubbaNarasimha, P. N. (2005). Paying the Devil His Due: Limits and Liabilities of Workplace Spirituality. *The International Journal of Organizational Analysis*, 13(1), 50-63.
- Ponemon, L. A. (1988). A Cognitive-Developmental Approach to the Analysis of Certified Public Accountants Ethical Judgments, Ph.D.Thesis, Union University.
- Ponemon, L. A. and Glazer, A. (1990). Accounting Education and Ethical Development: the influence of Liberal Learning on Students and Alumni in Accounting Practice. *Issues in Accounting Education*, 5, 195-208.
- Ponemon, L. A. (1990). Ethical Judgments in Accounting: A Cognitive-Developmental Perspective. *Critical Perspectives on Accounting* 1(2), 191-215.
- Ponemon, L. A. (1992). Ethical Reasoning and Selection-Socialization in Accounting. *Accounting, Organizations and Society*, 17(3), 239-258.
- Ponemon, L. A. (1992). Auditor underreporting of Time and Moral Reasoning: An Experimental Lab Study. *Contemporary, Accounting Research*, 9(1), 171-189.
- Ponemon, L. A. (1993). Can Ethics be Taught in Accounting. *Journal of Accounting Education* 11 (2), 185-209.
- Ponemon, L. A. and Gabhart, D. (1993). Ethical Reasoning in Accounting and Auditing. *CGA Canada Research Foundation*, Vancouver, Canada.
- Ponemon, L. A. and Gabhart, D. R. L. (1994). Ethical Reasoning Research in the Accounting and Auditing Professions *Moral Development in the Professions:*Psychology and Applied Ethics (pp. 233), New York, Taylor & Francis.
- Ponemon, L. A. (1995). The Objectivity of Accountants Litigation Support Judgements. *The Accounting Review*, 70(3), 467-480.
- Podsakoff, P., Makenzie, S., Paine, J. and Bachrach, D. G. (2000). Organizational Citizenship Behaviors: A Critical Review of the Theoritical and Empirical litrature and Suggestions for Future Research. *Journal of Managment*, 26, 513-563.
- Preacher, K. and Kelley, K. (2011). Effect Size Measures for Mediation Models:

 Quantitative Strategies for Communicating Indirect Effects. *American Psychological Association*, 16(2), 93-115.

- Preisendörfer, P. and Voss, T. (1990). Organizational Mortality of Small Firms: The Effects of Entrepreneurial Age and Human Capital. *Organization Studies*, 11(1), 107-129.
- Preston, V. (2009). Questionnaire Survey. In K. Editors-in-Chief: Rob & T. Nigel (Eds.), *International Encyclopedia of Human Geography* (pp. 46-52). Oxford: Elsevier.
- Public Oversight Board.(2000). The Panel on Audit Effetiveness Report and Recommendations Stanford: Public Oversight Board.
- Punch, K. F. and Punch, K. (2005). *Introduction to Social Research: Quantitative and Qualitative Approaches*. Beverly Hills; Sage Publisher.
- Radtke, R. R. (2008). Role Morality in the Accounting Profession How Do We Compare to Physicians and Attorneys? *Journal of Business Ethics*, 79, 279-297.
- Rest, J. R. (1979). Revised Manual for the Defining Issues Test: An Objective Test of Moral Judgment Development Moral Research Project. Minneapolis.
- Rest, J. R. (1984). Research on Moral Development: Implications for Training Counseling Psychologists. *The Counseling Psychologist*, 12(3), 19-29.
- Rest, J. R. (1986). *Moral Development: Advances in Research and Theory*. New York: Praeger.
- Rest, J. R. (1994). Moral Development in the Professions: Psychology and Applied Ethics. New Jersey: Taylor & Francis.
- Rest, J. R., Narvaez, D., Bebeau, M. and Thoma, S. (1999). A Neo-Kohlbergian Approach: The DIT and Schema Theory. *Educational Psychology Review*, 11(4), 291-324.
- Rest, J. R. and Thoma, S. (1985). Relation of Moral Judgment Development to Formal Education. *Developmental Psychology*, 21(4), 709-714.
- Rest, J. R., Thoma, S. J., Narvaez, D. and Bebeau, M. J. (1997). Alchemy and Beyond:Indexing the Defining Issues Test. *Journal of Educational Psychology*, 89(3), 498-507.
- Reynolds, J. and Francis, J. R. (2001). Does Size matter? The Influence of Large Clients on Office-Level Auditor Reporting Decisions. *Journal of Accounting and Economics*, 30, 375-400.
- Rezaee, Z. (2002). Financial Statement Fraud Prevention and Detection. New York: John Wiley & Sons, Inc.

- Robinson, G. and Kleiner, B. H. (1996). How to Measure an Organization's Intellectual Capital. *Managerial Auditing Journal*, 11(8), 36-39.
- Rokeach, M. (1968). *Beliefs, Attitudes, and Values: A Theory of Organization and Chnge*. San Francisco: Jossey-Bass.
- Rokeach, M. (1973). The Nature of Human Values, New York: The Free Press.
- Rokeach, M. (Ed.). (1979). From Individual to Supra-Individual Values: With Special Reference to the Values of Science. In M. Rokeach (Ed.), Understanding Human Values. New York: Free Press.
- Rokeach, M. and Ball-Rokeach, S. J. (1989). Stability and Change in American Values. *American Psychologist*, 44, 775-784.
- Roos, J., Roos, G., Dragonetti, N. and Edvinsson, L. (1997). *Intellectual Capital:* Navigating in the New Business Landscape. London: Macmillan Business.
- Rotter, J. (1996). Generalized Expectancies for Internal Versus External Contorol of Reinforcements. *Psychological Monographs*, 80(609).
- Rucker, D. D., Kristopher J. Preacher, L.Tormala, Z. and Petty, R. E. (2011).
 Mediation Analysis in Social Psychology: Current Practices and New Recommendations. Social and Personal Psychology Campass, 5/6, 359-371.
- Russell, J. P. (2005). *The Quality Audit Handbook Principles, Implementation and Use*. Milwaukee: ASQ Quality Press.
- Rutherford , A. (2011). ANOVA and ANCOVA: A GLM Approach, 2nd Edition. USA: Wiley.
- Ryan, J. J. (2001). Moral Reasoning as Determinant of Organizational Citizenship Behaviors: A Study in the Public Accounting Profession. *Journal of Business Ethics*, 33, 233-244.
- Saat, M. M. (2010). An Investigation of the Effects of a Moral Education Program on the Ethical Development of Malaysian Future Accountants. Ph.D.Thesis, Curtin University of Technology, Perth, Australia.
- Sadaghiani, E. (1998). *Tomorrow's Hospital, Medical Management, Management and Medical informatics school*. Theran: Tehran University of Medical Sciences.
- Saint Onge, H. (2002). Knowledge & Learning the Two Sides of One Coin. Knowledge Management Asia, 7, 16-18.

- Salehi, M., Mansoury, A. and Azary, Z. (2009). Audit Independence and Expectation Gap: Empirical Evidences from Iran. *International Journal of Economics and Finance*, 1(1), 165-174.
- Sarmad, M. et al. (2003). *Research Methods in Behavioral Sciences*. Tehran: Agah Publishing.
- Satava, D., Caldwell, C. and Richards, L. (2006). Ethical and Auditing Culture: Rethinking the Foundation of Accounting and Auditing. *Journal of Bussiness Ethics*, 64(3), 271-284.
- Saunders, M. N., Saunders, M., Lewis, P. and Thornhill, A. (2011). *Research Methods For Business Students*, 5/e: Pearson Education India.
- Saunders, M., Lewis, P. and Thornhill, A. (2007). *Research Methods for Business Stud ent*, New York: Prentice Hall.
- Schein, E. H. (1985). *Organizational Culture and Leadership*. Sanfrancisco: Jossy-Bass.
- Schipper, K. (1989). Commentary on Earnings Management. *Accounting Horizons*, 3, 91-102.
- Schneider, B. and Reichers, A. (1983). On the Etiology of Climates. *Personnel Psychology*, 36, 19-41.
- Schneider, B. (1975). Organizational Climate: An Essay. *Personnel Psychology*, 28, 447-479.
- Schumacker, R. E. and Lomax, R. G. (2004). *A Beginner's Guide to Structural Equation Modeling*. Mahwah: NJ: Lawrence Erlbaum Associates.
- Schwandt, T. A. (1998). *Constructivist Interpretivist Approaches to Human Inquiry*. Thousand Oaks: Sage Publicatins.
- Schuetze, W. P. (1994). A Mountain or a Mole Hill? *Accounting Horizons*, 8(1), 69-75.
- Securities and Exchange Commission. (2000). Revision of Commission's Auditor Independence Requirements, from www.sec.gov/rules/proposed/3442994.htm (2011).
- Shafer, W. E., Morris, R. E. and Ketchand, A. A. (2001). Effects of Personal Values on Auditors' Ethical Decisions *Accounting, Auditing & Accountability Journal*, 14(3), 254-277.

- Shahbazi, S. (1996). "Darius I the Great" *Encyclopedia Iranica* (Vol. 7). New York: Columbia University.
- Shar Ashob, M. (1985). *Statistical Concepts* Tehran: Center of Academic Publication.
- Shaub, M. K., Finn, D. W. and Munter, P. (1993). The Effects of Auditors' Ethical Orientation on Commitment and Ethical Sensitivity. *Behavioral Research in Accounti* g, 5, 145-169.
- Sherer, M. and Turley, S. (Eds.). (2005). *Current Issues in Auditing*. London: Paul Chapman Publishing Ltd.
- Shore, L. M., Chung-Herrera, B. G., Dean, M. A., Ehrhart, K. H., Jung, D. I., Randel, A. E., et al. (2009). Diversity in Organizations: Where Are We Now and Where Are We Going? *Human Resource Management Review*, 19, 117-133.
- Siegel, P. H., Rigsby, J. T. and Leavins, J. (1992). Organizational Morality of Small Firms: The Effects of Entrepreneurial Age and Humam Capital. *Organization Studies*, 11, 107-192.
- Skandia. (1994). Visualising Intellectual Capital in Skandia. A Supplement to Skandia's 1994 Annual Report. Sweden: Skandia.
- Smith, A. (1904). An Inquiry into the Nature And Causes of the Wealth of Nations Book 2 Of the Nature, Accumulation, and Employment of Stock. London: Methuen & Cannan,ed.
- Snarey, J. R. (1985). Cross-Cultural Universality of Social-Moral Development: A Critical Review of Kohlbergian Research. *Psychological Bulletin*, 97, 202-232.
- Society of Management Accountants of Canada. (1998). The Management of Intellectual Capital: The Issues and Practice: The Society of Management Accountants of Canada.
- Sofian, S. (2005). Intellectual Capital and Management Accounting: An Investigation of the Management Accounting Practices within Malaysian Companies with High Intellectual Capital Investments. Ph.D. Thesis, Bradford; University of Bradford, United Kingdom.
- Sonnier, B. M., Carson, K. D. and Carson, P. P. (2007). Accounting for Intellectual Capital: The Relationship between Profitability and Disclosure. *Journal of Applied Management and Entrepreneurship*, 12, 3-14.

- Sparks, J. R. and Merenski, J. P. (2000). Recognition-Based Measures of Ethical Sensitivity and Reformulated Cognitive Moral Development: An Examination and Evidence of Nomological Validity. *Teaching Business Ethics*, 4(4), 359-377.
- Standard Advisory Group. (2004). Potential Standards Quality Control Standards, Paper Presented at PCAOB Standing Advisory Group Meeting Washington DC.
- Statement on Auditing Standard. (1972). Independence (Vol. 1). New York: AICPA.
- Statement on Auditing Standard. (1972). Responsibilities and Functions of Independent Auditor *AU Section 110*. New York: AICPA.
- Statement on Auditing Standard. (1989). Reports on Audited Financial Statements *AU Section 508* (Vol. 58,64,99), New York; AICPA.
- Stewart, T. (1997). *Intellectual Capital: The New Wealth of Organizations*, New York: Currency Doubleday.
- Stewart, T. (1999). Intellectual Capital. New York; Currency Doubleday.
- Stewart, T. (2001). Intellectual Capital. Retrieved from www.qfinance.com, (2010).
- Sullivan, P. H. (1998). Profiting from Intellectual Capital, Extracting Value from Innovation. New York: John Wiley & Sons Inc.
- Sullivan, P. H. (1999). Profiting from Intellectual Capital. *Journal of Knowledge Management*, 3(2), 132-143.
- Sullivan, P. H. (2000). Value-Driven Intellectual Capital: How to Convert Intangible Corporate Assets into Market Value. New York: Wiley.
- Sullivan, A. and Steven, M. S. (2003). *Economics: Principles in Action*. New Jersey: Wiley.
- Sundgren, S. and Svanström, T. (2011). Audit Office Size, Audit Quality and Audit Pricing: Evidence from Small and Medium Sized Entities. Retrieved from http://ssrn.com/abstract=1869945, (2012).
- Sveiby, K. (1988). Den nya Arsredovisningen. The Annual Report in Swedish; Stokholm.
- Sveiby, K. (1997). The New Organizational Wealth: Managing and Measuring Knowledge Based Assets. San Francisco: Berrett Koehler.
- Sveiby, K. (2001). A Knowledge-Based Theory of the Firm to Guide in Strategy Formulation. *Journal of Intellectual Capital*, 2(4), 344-358.

- Sveiby, K. (2002). Methods for Measuring Intangible Assets. Retrieved from http://www.sveiby.com/articles/IntangibleMethods.htm, (2013).
- Sykes, T. (1994). *The Bold Riders: Bebind Australia's Corporate Collapses*. Stleonards, NSW: Allen & Unwin.
- Sweeney, J. T. and Roberts, R. W. (1997). Gognitive Moral Development and Auditor Independence. *Accounting Organization and Society*, 22, 337-352.
- Swindle, B., Phelps, L. D. and Broussard, R. (1987). Professional Ethics and Values of Certified Public Accountants. *The Woman CPA*, 49(2), 3-6.
- Takatera, S. and Yamamoto, M. (1989). The Cultural Significance of Accounting in Japan. *Scandinavian Journal of Management*, 5(4), 235-250.
- Tashakkori, A. and Teddlie, C. (2003). *Handbook of Mixed Methods in Social & Behavioral Research*. Beverly Hills: SAGE Publications.
- Tayles, M., Pike, R. H. and Sofian, S. (2007). Intellectual Capital, Management Accounting Practices and Corporate Performance: Perceptions of Managers. *Accounting, Auditing & Accountability Journal*, 20(4), 522-548.
- Teece, D. J. (1998). Capturing Value from Knowledge Assets: The New Economy, Markets for Know-How and Intangible Assets. *California Management Review*, 40(3), 55-79.
- Thorne, L., Massey, D. W. and Magnan, M. (2003). Institutional Context and Auditors' Moral Reasning: A Canada- U.S. Comparison. *Journal of Bussiness Ethics*, 43, 305-321.
- Tichy, N. M. and Sherman, S. (1994). Control your Destiny or Someone Else Will:

 Lessons in Mastering Change from the Principles Jack Welch is Using to

 Revolutionize GE (Vol. 1 Harper Business Edition). New York: Harper Business.
- Tobin, J. (1969). A General Equilibrium Approach to Monetary Theory. *Journal of Money, Credit and Banking*, 1(1), 15-29.
- Trevino, L. K., Butterfield, K. D. and McCabe, D. L. (1995). Contextual Influences on Ethics-Related Outcomes in Organizations: Rethinking Ethical Climate and Et hical Culture', paper Presented at the Annual Academy of Management Meeti ing Vancouver.
- Trevino, L. K. (1990). A Cultural Perspective on Changing and Developing Organizational Ethics. *Research in Organizational Change and Development*, 4, 195-230.

- Trevino, L. K., Butterfield, K. D. and McCabe, D. L. (1998). The Ethical Context in Organizations: Influences on Employee Attitudes and Behaviors. *Business Ethical Quarterly*, 8(3), 447-476.
- Trevino, L. K. and Youngblood, S. A. (1990). Bad Apples in Bad Barrels: A Causal Analysis of Ethical Decision-Making Behavior. *Journal of Applied Psychology*, 75, 378-385.
- Trevino, L. K. (1986). Ethical Decision Making in Organizations: A Person Situation Interactionist Model *Academy of Management Review*, 11(3), 601-617.
- Tsui, J. S. L. (1996). Auditors' Ethical Reasoning: Some Audit Conflict and Cross Cultural Evidence. *The International Journal of Accounting*, 31(1), 121-133.
- Tsui, J. S. L. and Gul, F. A. (1996). Auditors' Behaviour in an Audit Conflict Situation: A Research Note the Role of Locus of Control and Ethical Reasoning. *Accounting, Organization and Society*, 21(1), 41-51.
- Tsuji, A. and Garner, P. (1995). *History of Accounting* (Vol.1): Published Under the Auspices of the Accounting History Association of Japan.
- Usoff, C. A., Thibodeau, J. C., and Burnaby, P. (2002). The Importance of Intellectual Capital and its Effect on Performance Measurement Systems. *Managerial Auditing Journal*, 17(1/2), 9-15.
- Valentine, S. and Fleischman, G. (2002). Ethics Codes and Professionals' Tolerance of Societal Diversity. *Journal of Business Ethics*, 40, 301-312.
- Van Loon, A. J. M., Tijhuis, M., Picavet, H. S. J., Surtees, P. G. and Ormel, J. (2003). Survey non-response in the Netherlands: effects on prevalence estimates and associations. *Annals of epidemiology*, 13(2), 105-110.
- Victor, B. and Cullen, J. B. (1987). A Theory and Measure of Ethical Climate in Organizations. In W.C. Frederick, ed., Research in Corporate Social Performance and Policy. Greenwich: JAI Press.
- Victor, B. and Cullen, J. B. (1988). The Organizational Bases of Ethical Work Climates. *Administrative Science Quarterly*, 33(1), 101-125.
- Wallace, W. A. and Campbell, R. L. (1988). State Boards of Accountancy: Quality Review and Positive Enforcement Programs. Research in Accounting Regulation, 2, 123-154.
- Waller, D. L. (2008). Statistics for Business. Oxford: Butterworth-Heinemann.

- Warming-Rasmussen, B. and Windsor, C. A. (2003). Danish Evidence of Auditors' Level of Moral Reasoning and Predisposition to Provide Fair Judgements. *Journal Business and Ethics*, 47, 77-87.
- Watts, R. L. and Zimmerman, J. L. (1981). *The Markets for Independence and Independent Auditors, Unpublished Manuscript*. University of Rochester. New York.
- Watts, R. L. and Zimmerman, J. L. (1983). Agency Problems, Auditing, and the Theory of the Firm: Some Evidence. *Journal of Law & Economics*, 26(3), 613-633.
- Watts, R. L. and Zimmerman, J. L. (1986). *Positive Accounting Theory*. New York: Prentice Hall, Inc.
- Weber, M. (2003). *The Protestant Ethic and the Spirit of Capitalism*. Los Angeles, California: Roxbury Publishing Company.
- Weiss, A. M. and Heide, J. B. (1993). The nature of organizational search in high technology markets. *Journal of Marketing Research*, 220-233.
- Westort, P. (1990). *Investments in Human Capital by Accountants in Public Practice*. Ph.D. Thesis, University of Oregon, Eugene. U.S.A
- Whittington, O. R. and Pany, K. (2003). *Principles of Auditing and Other Assurance Services*. New York: McGraw-Hill.
- Wilson, T. E. J., Pinac-Ward, S. and Ward, D. R. (1998). *Toward a Better Understanding of the Motivations and Ethical Attitudes of the Profession, in L.A Ponemon (ed)*. Greenwich: JAI Press.
- Windsor, C. A. and Ashkanasy, N. M. (1995). The Effect of Client Management Bargaining Power, Moral Reasoning Development, and Belief in a Just World on Auditor Independence. *Accounting, Organizations and Society*, 20(7/8), 701-720.
- Windsor, C. A. and Warming-Rasmussen, B. (2009). The Rise of Regulatory Capitalism and the Decline of Auditor Independence: A Critical and Experimental Examination of Auditors' Conflicts of Interests. *Critical Perspectives on Accounting* 20, 267-288.
- Woodbine, G. (2002). Moral Choice in an Agency Framework and Related Motivational Typologies as Impacted by Personal and Contextual Factor for

- Financial Institutions in China. Ph.D. Thesis, Perth; Curtin University of Technology. Australia.
- Wright, A. (1983). The Impact of CPA-Firm Size on Auditor Disclosure Preferences. *The Accounting Review*, 58(3), 621-632.
- Wright, G. B., Cullinan, C. P. and Bline, D. M. (1997). The Relationship Between an Individual's Values and Perceptions of Moral Intensity: An Empirical Study. *Behavioral Research in Accounting*, 9(Supplement), 26-40.
- Wuensch, K. L. (2005). What is a Likert Scale? and How Do You Pronounce 'Likert? East Carolina University. Retrieved from http://www.gifted.uconn.edu, (2012).
- Yuniarti, R. (2011). Audit Firm Size, Audit Fee and Auditor Quality. Proceedings of the 2011 *International Conference on Business and Economic Research* (*ICBER*).
- Zaid, O. A. (1997). Could Auditing Standards be Based on Society's Values? Journal of Business Ethics, 16, 1185-1200.
- Zhao, X., Lynch, J. G. and Chen, Q. (2010). Reconsidering Baron and Kenny: Myths and Truths about Mediation Analysis. *Journal of Consumer Research*, 37, 197–206.
- Zikmund, W. G. (1997). *Business Research Methods*. Florida: The Dryden Press.

 Zohar, D. and Marshall, I. (2004). *Spiritual Capital: Wealth We Can Live*.

 San Francisco Berret-Koehler Publishers Inc.