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Historical research on corporate governance: A bibliometric analysis

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Bibliometric analysis provides historical information on research of trend and performance. A publication analysis was carried out using the related literature in the Social Science Citation Index (SSCI) from 1992 - 2008, collected from the web of Science databases of the Institute for Scientific Information (ISI). Articles of such literature were concentrated on the analysis by the scientific output and distribution of subject categories and journals. The author's keywords were also analyzed to evaluate the research hotspots. The results from this analysis indicate that, yearly, production of the related scientific articles increased steadily over the investigation period and that in the year 2008, there was a peak. "Ownership structure", "board of directors" and "executive compensation" were the three most used author's keywords. In addition, the agency theory in historical corporate governance research was also discussed.

Key words: Corporate governance, scientometrics, finance business, economics.

INTRODUCTION

The devastating economic effects of the "Asian financial crisis" of 1997 - 1998 have affected all the "emerging markets" open to capital flows and investment opportunities (Johnson et al., 2000; Lemmon and Lins, 2003). Besides, corporate financial scandals involving Enron, Worldcom, Arthur Andersen and others have heightened awareness of the need to revisit corporate accountability and to strengthen corporate governance provisions (Khatri et al., 2006). Recently, the financial crisis of 2007 - 2009 has inflicted severe loss of confidence on investors (Zingales, 2009). These international events have resulted in increasing the attention to the reforms of corporate governance. This paper briefly reviews the internationally historical events related to corporate governance.

Bibliometrics is a research method used in library and information sciences. It is also applied to the historical research analysis (Hurt, 1983; Tempest, 2008). One

common way of conducting bibliometric research is to use the Social Science Citation Index (SSCI), which traces publications of the Institute for Scientific Information (ISI). The SSCI has been used for the bibliometric analysis of the social science topics (Sarafoglou, 1998; Li and Ho, 2008). Topics in the business-related field have also been studied by using bibliometric methods; for instance, the patterns of productivity in the finance literature (Chung and Cox, 1990), the bibliometric analysis of six economics research groups (Nederhof and Van Raan, 1993), the changes in the intellectual structure of strategic management research (Ramos-Rodríguez and Ruíz-Navarro, 2004) and the profile of the history, participants, knowledge stock and flows was investigated (Biemans et al., 2007). Evaluating the performance of each research topic is necessary for indicating the impact and contribution of authors in their respective fields. The authors attempted to bibliometrically evaluate the SSCI literature on corporate governance. This study might provide some additional insights into the current state of corporate governance research during the time span from 1992 to 2008. The characteristics of research activities, publication patterns and research hotspots were performed.

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Table 1. Characteristics of corporate governance scientific articles from 1992 to 2008.

Year	TP	AU	AU/TP	PG	PG/TP	NR	NR/TP	J	TP/J
1992	16	25	1.6	504	32	905	57	13	1.2
1993	40	56	1.4	1.248	31	2.511	63	25	1.6
1994	26	41	1.6	913	35	1.806	69	21	1.2
1995	29	42	1.4	614	21	1.292	45	23	1.3
1996	34	65	1.9	752	22	1.717	51	20	1.7
1997	37	60	1.6	738	20	1.698	46	27	1.4
1998	41	72	1.8	846	21	1.618	39	31	1.3
1999	56	107	1.9	1.314	23	2.362	42	35	1.6
2000	81	146	1.8	1.748	22	3.375	42	47	1.7
2001	95	157	1.7	2.213	23	4.414	46	59	1.6
2002	113	200	1.8	2.521	22	4.627	41	70	1.6
2003	111	227	2.0	2.724	25	5.396	49	68	1.6
2004	149	299	2.0	3.418	23	6.090	41	70	2.1
2005	213	395	1.9	4.885	23	9.403	44	105	2.0
2006	234	498	2.1	5.644	24	11.402	49	114	2.1
2007	238	505	2.1	5.198	22	11.550	49	110	2.2
2008	338	742	2.2	7.665	23	17.096	51	142	2.4
Total	1,851	3,637		42,945		87,262		980	
Average			2.0		23		47		1.9

TP: Number of articles; AU: Number of authors; PG: Page count; NR: Cited reference count; J: Number of journals; AU/TP: The average author count per article; PG/TP: The average page count per article; NR/TP: The average cited reference count per article; TP/J: The average number of articles published per journal.

METHODOLOGY

Documents used in this study were based on the online database of the Social Science Citation Index (SSCI) retrieved from the ISI web of Science, Philadelphia, USA. "Corporate governance" was used as the keyword to search titles, abstracts, and keywords from 1992 to 2008. The impact factor of a journal was determined for each document as reported in the JCR (2007). Document information included title, publication year, keywords, subject categories, abstract, document type, number of cited references and pages and names of journals publishing the articles. The records were downloaded into Microsoft Excel software and precisely analyzed.

RESULTS AND DISCUSSION

There were 2,792 publications that met the selection criteria previously mentioned and they include 10 document types. Article (1,851) was the most-frequently used document type comprising 66% of the total production, followed distantly by proceedings papers (373; 13%) and reviews (262; 9.4%). Others showing less significance were book reviews (175), editorial materials (109), letters (73), notes (6), corrections (4), meeting abstracts (3) and news items (2). As journal articles represented the majority of document type that was also peer-reviewed within this field, 1,851 articles were identified and further analyzed in this study. The emphasis of the following discussion was to determine the pattern of scientific production and distribution of journals, subject categories and author key words.

Characteristics of corporate governance scientific articles

The publication output of current corporate governance research during the time span of 1992 through 2008 was summarized in Table 1. In the last 17 years, the annual number of journal articles published and the number of journals devoted to corporate governance research increased more than twenty-one-fold and eleven-fold, respectively, that is, the number of articles increased from 16 in 1992 to 338 in 2008, with also an increase in the number of journals (Table 1). The average number of authors per article rose from 1.6 authors per article in 1992 to 2.2 in 2008. The average page count per article has been decreased slightly, which indicates an overall average length of 23 pages. There were 1.2 articles published per journal in 1992, compared with 2.4 papers per journal in 2008.

The historical events and the trend of publications

Annual publications were displayed in Figure 1. Along with the occurrence of internationally financial events, corporate governance research continually grew in this period. The publication of articles has significantly increased by 25, 38 and 64 papers, separately, in the year 2000, 2004 and 2005 as compared with that in the previous year. Also, in the year 2008, increment in

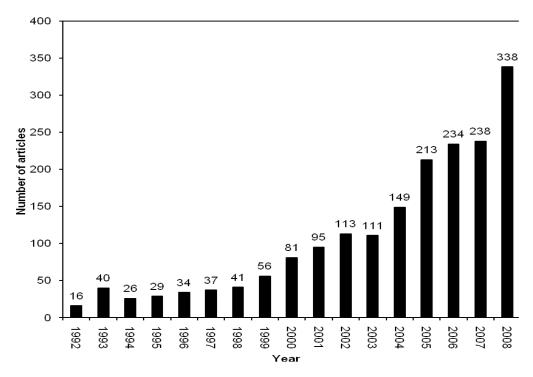


Figure 1. World SSCI publications on corporate governance since 1992 to 2008.

publication came to its peak by 98 papers compared with the previous year. The relationship between internationally critical events and researches related to corporate governance in the study period has been traced.

In July 1997, the "Asian financial crisis" was a period of financial crisis that gripped much of Asia and raised fears of a worldwide economic meltdown; meanwhile, corporate governance has attracted an interest in Western and Eastern Europe, Latin America and Asia and has taken on the favour of reforming the global financial architecture (Johnson et al., 2000; La Porta et al., 2000). The literature showed that firms with weaker governance structures generally had greater agency problems and performed worse (Core et al., 1999; Johnson et al., 2000). Firm-level differences in variables related to corporate governance had a strong impact on firm performance during the East Asian financial crisis of 1997 - 1998 (Mitton, 2002). Then, there were major corporate scandals in the period of 2001 - 2002 and a worldwide stock-market bubble burst over this same period, while the renewed interest in the corporate governance practices of modern corporations appeared. In 2002, the U.S. Securities and Exchange Commission introduced a new corporate governance structure, the qualified legal compliance committee, as part of the professional standards of conduct for attorneys mandated by the Sarbanes-Oxley Act of 2002, intending to restore public confidence in corporate governance (Fisch and Gentile, 2003; Chhaochharia and Grinstein, 2007). Particularly, the Sarbanes-Oxley Act of 2002 was considered by many

to have made the most sweeping changes affecting corporate governance since the Securities and Exchange Acts of 1933 and 1934 (Valenti, 2008). The OECD principles of corporate governance were first issued in 1999, which soon gained worldwide recognition as an international benchmark for sound corporate governance and which was revised in 2004 to respond to corporate governance developments (Jain and Rezaee, 2006). The waves of irregularity and various amendments to guidelines and regulations mentioned above led to abundant subject matters and particularly, attention is paid to discussing the effect of ownership concentration, the role of independent directors, the conduct of audits. disclosure quality and the implications for corporate governance innovation (Mitton, 2002; Deakin and Konzelmann, 2004; Hogan, 2004; Aguilera, 2005; Chhaochharia and Grinstein, 2007). Recently, the second financial crisis occurred and inflicted severe loss of confidence on investors. Investors in the world pay close attention to the issue of corporate governance again. In summary, there has been a decrease in the span of researches for corporate governance that lag behind the vital events.

Publication patterns: Subject categories

In the research topic of corporate governance, there were 57 subject categories identified by ISI. The use of statistics in any scientific discipline could be considered a

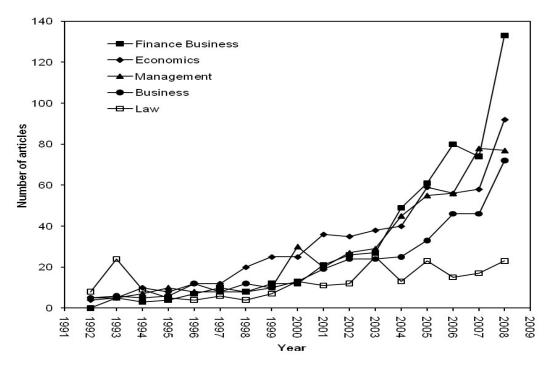


Figure 2. Top 5 subject categories with the most publications from 1992 to 2008.

key element in evaluating its degree of maturity (Palmer et al., 2005). Figure 2 provided the development trend of top 5 subject categories with most of the publications from 1992 to 2008 of the research emphasis on this topic. Finance business was expanded quite slowly before 2000, while it has almost taken the lead since 2004. Above all, the publications of finance business grew far considerably than those of all the other subjects in 2008. Economics and business with quite a stable growth were in the second and fourth place separately in the whole period of the study. Comparatively, the close attention paid by management to corporate governance was a little unsettled. Finally, law has kept showing little growth except in 1993.

Publication patterns: Journals

In total, 1,851 articles were published in 388 journals. The journals were listed in descending order by the number of articles received. Bradford's Law of Scattering (Bradford, 1934) was applied and the journals were divided into three "zones". Zone 1 represented the most productive third of the total articles, which contained 9 journals or 2.3% of 388 journals. Zone 2 represented the next most productive third of the total articles, which contained 60 journals or 15% of 388 journals. Zone 3 represented the least productive third of the total articles, which contained 319 journals or 82% of 388 journals. Table 3 shows the nine Bradford's core journals with their impact factors, the number of papers, the category and the percentage of total articles. As the flagship journal of

Corporate this research field, Governance-an International Review published the most articles with 182 (10%) published papers. Journal of financial economics ranked second with 94 (5.1%) papers. These two journals were ranked as the top two of all journals. Moreover, the journal of finance with 50 published articles had the highest impact factor (3.353). The top one journal with the most publications belongs to the subject category of management and others are mostly the subject categories of finance business, economics and business. Business lawyer journal is classified to law alone. These distributions are basically consistent with the trend of category pattern analyzed previously. A conjecture can be made that corporate governance research in the field of finance business has continuously developed to a matured state.

Distribution of author key words analysis

The source titles and author keywords supply "reasonably", details of the articles' subject (Garfield, 1990). The author keywords analysis could offer the information of research hotspot which is concerned by most researchers. Bibliometric method can use the author keyword to analyze the trend of research (Xie et al., 2008; Li et al., 2009). The technique of statistical analysis of keywords aims at discovering directions of science and proves important for monitoring the development of science and programs. Examination of author keywords in this study period revealed that 2,163 author keywords were used. Among them, 1,703 keywords appeared only

Table 2. Top 20 frequency of author keywords used.

Author key words	TP	Rank (%)
Corporate governance	612	1 (0.33)
Ownership structure	56	2 (0.03)
Board of directors	46	3 (0.025)
Executive compensation	38	4 (0.021)
Governance	37	5 (0.02)
Agency theory	34	6 (0.018)
Ownership	28	7 (0.015)
Boards of directors	27	8 (0.015)
Privatization	27	8 (0.015)
Firm performance	26	10 (0.014)
China	23	11 (0.012)
Regulation	22	12 (0.012)
Earnings management	22	12 (0.012)
Board composition	21	14 (0.011)
Shareholder value	20	15 (0.011)
Corporate social responsibility	20	15 (0.011)
Performance	18	17 (0.01)
Ethics	17	18 (0.0092)
Corporate control	16	19 (0.0086)
Audit committee	15	20 (0.0081)
Institutional investors	15	20 (0.0081)

TP: publications in the study period; Rank (%): the rank and percentage of the author keyword.

once and 202 keywords appeared twice. The large number of once-only author keywords probably indicated a lack of continuity in research and a wide disparity in research focuses (Chuang et al., 2007). Most of the research articles were not considered to be mainstream corporate governance research by their authors. Author keywords that appeared in the articles referring to corporate governance from 1992 to 2008 were calculated and ranked by the total 17 years study time period. Also, author keywords that had appeared and are been equal to or above 15 times were displayed in Table 2, while research focus could be roughly found. Except for "corporate governance" which was the searching keyword in this study, the three most frequently used keywords were "ownership structure", "board of directors" and "executive compensation". The three keywords were also the basis of all corporate governance research in the world, in which "ownership structure" is the source of capital and "board of directors" and "executive compensation" is the decision core of a company. These findings correlate with the definition of corporate governance defined in the Cadbury Report (1992) as "the system by which companies are directed and controlled. Boards of directors are responsible for the governance of their companies. The shareholders' role in governance is to appoint the directors and auditors and to satisfy themselves that an appropriate governance structure is in place."

Theories to the topics of corporate governance

From the results of distribution of author keywords, theories to account for the phenomenon of corporate governance were found, for example agency theory (Beatty and Zajac, 1994; Rediker and Seth, 1995), institutional theory (Zajac and Westphal, 2004; Ocasio, 1999) and stakeholder theory (Hill and Jones, 1992; McGuire et al., 2003) theories. Particularly, applying or adapting agency theory has been increasing in the span of this study (Figure 3).

Agency theory is directed at the ubiquitous agency relationship, in which one party (the principal) delegates work to another (the agent), who performs the work. The focus of the theory is to determine the most efficient contract that governs the principal-agent relationship (Eisenhardt, 1989). Furthermore, from its roots in information economics, agency theory has developed along two lines: positivist and principal-agent (Jensen and Roeback, 1983). The line of positivist has concern, first, with identifying situations in which the principal and agent are likely to meet conflicting goals and then with describing the governance mechanisms that limit the agent's selfserving behaviour. On the other hand, the line of principal-agent has focused on determining the optimal contract between the principal and the agent and behaviour versus outcome of the managers (Eisenhardt, 1989).

Table 3. Bradford's core journals on corporate governance, including the ranking, and respective percentages.

Journal	TP (%)	IF	Subject category	Position
Corporate Governance-an International Review	182 (10)	1.590	Management	25/81
Journal of Financial Economics	94 (5.1)	2.988	Finance business Economics	3/45 5/191
Journal of Corporate Finance	77 (4.2)	1.354	Finance business	9/45
Journal of Business Ethics	73 (3.9)	0.538	Business Ethics	55/72 16/28
Journal of Finance	50 (2.7)	3.353	Finance business	1/45
Journal of Banking and Finance	42 (2.3)	0.753	Finance business Economics	22/45 82/191
Business Lawyer	37 (2)	1.100	Law	40/101
Strategic Management Journal	35 (1.9)	2.829	Business Management	6/72 6/81
Journal of Accounting Research	21 (1.1)	2.115	Finance business	6/45
Journal of Financial and Quantitative Analysis	21 (1.1)	1.342	Finance business Economics	10/45 37/191

TP (%): total published articles; (percentage of all articles); IF: impact factor.

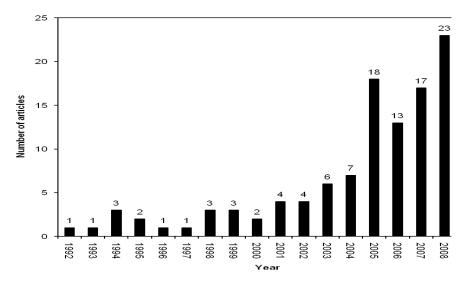


Figure 3. Applying or adopting agency theory of publications.

Since Berle and Means (1933) raised the issue of separation of ownership and control and highlighted its impact in corporations, literature has suggested various mechanisms of corporate governance to align managers' selfish incentives with firm value maximization (Jensen

and Meckling, 1976; Fama, 1980; Fama and Jensen, 1983). Besides, the costs of large shareholdings and entrenchment are formalized in the model of Stulz (1988). In the model, as managerial ownership and control increase, the negative effect on firm value that is associated

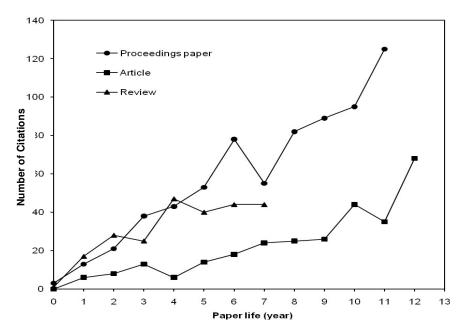


Figure 4. The citation history of the most frequently cited papers.

associated with the entrenchment of manager-owners starts to exceed the incentive benefits of the managerial ownership. However, there is a competing argument that the fundamental agency problem is not the Berle and Means conflict between the outside investors and the managers, but rather between the outside investors and the controlling shareholders, which is related to the agency problem described by Jensen and Meckling (1976) (Shleifer and Vishny, 1997; La Porta et al., 2000).

Facing the problems of moral hazards or adverse selection between the principal and the agent, much empirical research has examined the role of the board and explored its attributes and the firm's performance (Fama, 1980; Fama and Jensen, 1983; Yermack, 1996; Core et al., 1999). Also, it emphasizes the efficacy of alternative ownership structures (Stulz, 1988; Claessens et al., 2002). In summary, the assumptions of the agency theory include people of self-interest, bounded rationality, risk aversion, organizations with goal conflict among members and information as purchasable. The agency theory offers unique insight to explain phenomena of corporate governance, particularly, in the aspect of the principle-agency problems of conflicts between the outside investors and the managers and expropriation of minority shareholders by the controlling shareholders (Eisenhard, 1989). The major contributions of agency theory to thinking over and reforming corporate governance are the ideas of risk, outcome uncertainty, incentives and information systems. The conjectures that applying agency theory to the topics of corporate governance is still increasing, because it frequently tries to explain the actual events happening in the world.

Most frequently cited corporate governance papers

The time dependence of the citations might be information for tracing the impact of an article. Number of citations per year versus time was presented for article life. Article history was viewed by the "sales figure" in publications of Solid State Communications (Marx and Cardona, 2003). Article history has been investigated by percentage of cited papers (Chiu and Ho, 2005) and citation per publication (Li and Ho. 2008) versus time. Similarly, the time dependence for the most frequently cited papers that is related to Patent Ductus Arteriosus research has also been reported. Among corporate governance related papers, the most frequently cited "a survey of corporate proceedings paper was governance". This paper, in 1997 by Shleifer and Vishny from USA, was published in the Journal of Finance and has been cited 695 times since its publishing to 2008. Regarding the original articles, "higher market valuation of companies with a small board of directors" (in 1996 by Yermack from New York University), was the most frequently cited. This was published in the Journal of Financial Economics and had been cited 287 times to 2008. In 2001, "from state to market: a survey of empirical studies on privatization" which was cited 246 times was the most frequently cited review and was published in the Journal of Economic Literature by Megginson and Netter from USA. The citation history of the most frequently cited papers that included proceedings paper, article and review for corporate governance was shown in Figure 4.

The impact of these three papers is still increasing at present. Compared with the review paper which has the

shorter period of publication, the proceedings and article papers significantly varied in the cited times. Shleifer and Vishny (1997) paid special attention to the importance of legal protection of investors. Yermack (1996) presented the evidence that companies with small boards are more effective. The citations of the former reached an oblivious jump after 6 years of publication, when a series of corporate financial scandals happened. As a result, plenty of corporate governance regulations were substantially revised and applied in 2002. Moreover, both of them reached the peak position in 2008 (11th year for the former and 12th year for the later after their publications separately), while the second financial crisis broke. Figure 4 showed the relationship between the paper life and the number of citations in a year.

Conclusion

In this study, dealing with corporate governance publiccations in journals listed in SSCI, some significant results on the worldwide research characteristics and trends throughout the period from 1992 to 2008 were obtained. A trend of publication was figured and the significant growth in the recent year of 2008 was illuminated. The mainstream of corporate governance research was in finance business, economics, management and business fields, whereas research in the law category somewhat played a less important role. Corporate Governance-an International Review published the most corporate governance-related articles. "Ownership structure" headed the most frequently used author keywords and was followed by "board of directors" and "executive compensation". Finally, the "agency theory" is the most applied or adopted theory to corporate governance research and it shows continual increment.

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