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An empirical study on identifying critical success factors on chaos management

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ARTICLEINFO	A B S T R A C T
Article history: Received October 15, 2011 Received in Revised form November, 14, 2011 Accepted 25 February 2012 Available online 11 March 2012 Keywords: Critical success factors LISREL Chaos management Factor analysis	Chaos management is one of the most necessary efforts on managing business units. Many organizations fail to cope with undesirable circumstances, which may happen without any prior notice and as a result, they may face with significant financial losses. In this paper, we present an empirical study to determine critical success factors, which could help handle any possible chaos in organizations. The proposed study of this paper is implemented for a set of travel agencies located in Tehran, Iran. Chronbach alpha is calculated as 0.821, which is well above the minimum desirable level. In addition, we have also performed factor analysis, which yields a KMO value of 0.576 with the level of significance of 0.000. The results indicate that there are six important factors including effective management strategy, internal environmental factors, creative and innovative attitudes, external environmental factors and top level management thoughts.

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1. Introduction

One of the most important issues surrounding business units is to handle any chaos happens specially in tourism industry. Travel agencies as part of this industry may face with many challenges in different occasions such as revolution incidents, terrorist attacks, airport strike, etc. Organizational crises are relatively low-probability, high-impact situations, which threaten the competitiveness and viability of a firm (Valackiene, 2010). In such circumstances, it is important for managers of these agencies to handle the events as efficiently as possible. There are different studies associated with chaos management and there are several suggestions on reducing the cost of such incidents. Jallat and Shultz (2010) performed an empirical investigation for the country of Lebnon. This country has been located in a region where there are many threats including recent military assaults, terroris tattacks, etc. They shared their findings from a longitudinal field-study of political and business climate of Lebanon and presented their insight on how to handle different conflicts.

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© 2012 Growing Science Ltd. All rights reserved. doi: 10.5267/j.msl.2012.03.011 Pearson and Sommer (2011) explained the need to infuse creativity into organizational crisis management may be more necessary now than ever. Despite the fact that many investigations on creativity recommends that time pressure stifles innovation, we also need to know how to foster creativity when time pressure exists, when uncertainty increases and when crises loom.

Liu et al. (2009) performed an interview based investigation among 22 Chinese executives to find out their perception on four issues of crises: causes, consequences, caution and coping. They recommended that the informants could blame external constituencies for frequent adverse events experienced by Chinese business units and equate crisis management with quick problem solving in which technical protection of corporate image via effective leadership was the top priority. They also provided an alternative solution of thinking about crisis management, i.e., a manager's self positioning within the larger socio-economic context.

Israeli et al. (2011) investigated hospitality crisis management practices based on the context of the Indian hospitality industry. They used a questionnaire, which evaluated the relative importance and usage of four issues including marketing, hotel maintenance, human resources and governmental assistance. They reported which practices managers were important and which practices managers virtually implement during a crisis.

Tarraf (2011) investigated the role of corportae governance in the events leading up to the global financial crisis: Analysis of aggressive risk-taking. He looked for an explanation on how failures in corporate governance contributed to the global financial crisis. In other words, he tried to find out how the current corporate governance systems failed to safeguard against aggressive risk taking. He reported that aggressive risk taking was a major cause of the 2007-2008 financial crisis. Inadequate risk management by executives and boards of directors were among the most important reasons for the credit market collapse and resulting financial crisis. The results also contributed directly to understanding what went wrong in the corporate governance system based on a review of the literature. Eriksson and McConnell (2011) proposed that the relationship between crisis planning and crisis management outcomes could be more complex and nuanced relationship the often assumed.

Miller (2002) performed a research, which highlights passengers experience throughout the crisis. The survey shows that just 90% of respondents highlighted the failure of airline, travel agencies and/or government to provide suitable information. The airspace closure also created adverse health influence, with 79% of respondents highlighting this as a concern. Carmeli and Schaubroeck (2008) performed a study, which indicated that learning from failures is an necessary facilitator of preparedness for both present and prospective crises.

Although crisis experience and an industry's technological risk were not substantially associated with crisis preparedness, high-performing organizations are believed to have higher levels of crisis-preparedness. Choi et al. (2010) performed an investigation, which was based on qualitative and quantitative analyses of 30 crisis real-world case studies. The study also identified the prevalent types of crises and efficient strategies used for team crisis coping. The results revealed that 90% of team level crises were caused by external or environmental factors rather than internal disturbances.

In this paper, we present an empirical study to determine critical success factors, which could help handle any possible chaos in organizations. The proposed study of this paper is implemented for a set of travel agencies located in Tehran, Iran.

2. Proposed model

The proposed study of this paper tries to indentify important factors, which could help handle crises. The study has designed a questionnaire and distributed among experts in travel agencies. Chronbach Alpha has been calculated as 0.821, which is well above the minimum requirement. The study has chosen six factors as follows,

- 1. Knowledge, innovation, new business strategies: This includes performance measurement of managers during crises, continuous review on chaos management, economic recession of organization, presenting innovative ideas, etc.
- 2. Specific management programs: This includes long term planning for future crises, selective programs for better handling crises, etc.
- 3. Internal environmental factors: This includes financial turmoil, learning from experiences on different crises, etc.
- 4. Creative and innovative thoughts: This includes heuristic and innovative ideas to handle chaos.
- 5. External environmental factors: This includes issues on how to become cope with changes in the environment.
- 6. Top management perspectives: This includes how top management could handle challenges.

Let F1 to F6 denote effective management strategies, specific management programs, internal factors, creative and innovative thoughts, external factors and top management perspectives, respectively.

3. Results

We have used LISREL software package to analyze the results of this survey. Fig. 1 shows the effects of different factors on

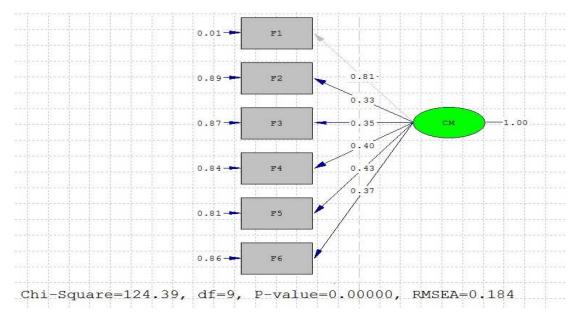


Fig. 1. The results of six factors on crises management (CM)

As we can observe from the results, $\chi^2 = 124.39$ with 9 degrees of freedom, which is well above the critical value of 3 and RMSEA is 0.184, which is above the critical value of 0.08. Table 1 shows details of other statistical observations.

Table 1

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Statistical observations of LISREL test in the first stage

Factor	Estimated	Standard	Standard	t-value	Variance	P-value	Result
	value	value	error				
effective management strategies	1.00	0.81			0.81	P<0.01	Confirmed
specific management programs	0.08	0.33	0.014	3.19	0.11	P<0.01	Confirmed
internal factors	0.08	0.35	0.014	3.36	0.13	P<0.01	Confirmed
creative and innovative	0.09	0.4	0.014	3.65		P<0.01	Confirmed
thoughts							
external factors	0.1	0.43	0.062	3.87	0.19	P<0.01	Confirmed
top management perspectives	0.09	0.37	0.014	3.48	0.14	P<0.01	Confirmed

Table 2 shows other statistical observations associated with the proposed study. The first row represents chi square divided to degree of freedom and based on the value of 12.93 we reject the model. The second row represents root mean square error of approximation and the third row goodness of fit index. The results of these two tests lead us to accept the model. Comperation fit index (CFI) and Inceremental fit index (IFI) also reject the model.

Table 2

Statistical observations

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Index	Acceptable region	Value	Result
X^2/df	$\leq 3 X2/df$	12.93	Reject
RMSEA	RMSEA<0.09	0.000	Accept
GFI	GFI>0.9	0.9	Accept
AGFI	AGFI>0.85	0.77	Reject
CFI	CFI>0.90	0.73	Reject
IFI	IFI>0.90	0.53	Reject

Fig. 2 shows details of our survey in the final stage.

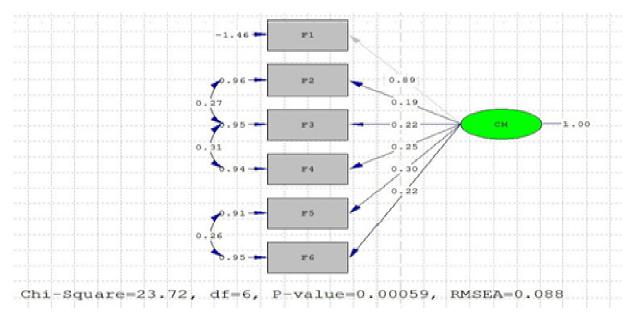


Fig. 2. The results of six factors on crises management (CM)

Table 3 shows details of other statistical observations.

Statistical observations of LISKEL test in the final stage							
Factor	Estimated	Standard	Standard	t-	Variance	P-	Result
	value	value	error	value		value	
effective management strategies	1 .00	0.89	10		0.89	P<0.01	Confirmed
specific management programs	0.03	0.19	0.013	2.25	0.12	P<0.01	Confirmed
internal factors	0.03	0.22	0.014	2.34	0.13	P<0.01	Confirmed
creative and innovative thoughts	0.04	0.25	0.016	2.36	0.17	P<0.01	Confirmed
external factors	0.04	0.30	0.018	2.45	0.17	P<0.01	Confirmed
top management perspectives	0.03	0.22	0.014	2.38	0.12	P<0.01	Confirmed

Table 3

Statistical observations of LISREL test in the final stage

Based on the results of Table 3, we can conclude that all six factors play important role on managing crises. Table 4 demonstrates all other statistical observations.

Table 4

Statistical observations

Index	Acceptable region	Value	Result
X^2/df	$\leq 3 X2/df$	2.77	Accept
RMSEA	RMSEA<0.09	0.390	Accept
GFI	GFI>0.9	0.98	Accept
AGFI	AGFI>0.85	0.96	Accept
CFI	CFI>0.90	0.96	Accept
IFI	IFI>0.90	0.90	Accept
NNFI	NNFI>0.90	0.90	Accept

Again, we can observe that all statistical values are meaningful and we can conclude that all six factors significantly influence the main factor, Crises Management (CM).

4. Conclusion

In this paper, we have performed an empirical investigation to detect important factors influencing crises management. The proposed study has distributed some questionnaire among different decision makers and analyzed the results using LISREL software package. The results has confirmed that all main six factors of effective management strategy, internal environmental factors, creative and innovative attitudes, external environmental factors and top level management thoughts could significantly impact managing crises.

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