

# THE DEVELOPMENT OF A MANAGEMENT MODEL FOR THE ROYAL THAI ARMED FORCES ACADEMY SCHOOLS TOWARDS INTELLIGENT ORGANIZATIONS

Suthiya Chanchaochai<sup>1</sup>

Arunee Hongsiriwat<sup>2</sup>

Varaporn Bovornsiri<sup>3</sup>

**Abstract:** The objectives of this research were 1) to study the conditions and problems of the management in the Royal Thai Armed Forces Academy Schools and armed forces schools in foreign countries and 2) to present a management model for the Royal Thai Armed Forces Academy Schools according to the concept of an intelligent organization. Sample groups consisted of 1) people who gave their opinions about the conditions of the management in the Royal Thai Armed Forces Academy and foreign countries' schools, consisting of the chief executives, directors of education divisions, and professors of Chulachomklao Royal Military Academy, the Royal Thai Naval Academy and the Royal Thai Air Force Academy, with a total number of 254 selected by simple random sampling method. 2) the officers who graduated from foreign armed forces schools in the United States of America, Japan, and Australia in 2004-2009, with a total number of 18 selected by purposive sampling method. 3) people who gave their opinions about the definition of an intelligent business organization's aspects, consisting of executive administrators or human resource managers of private organizations, with a total number of 10 selected by purposive sampling method. The instruments employed in this research were documentary analysis, content analysis, interviews, and questionnaires. The research results showed that the managements in the Royal Thai Armed Forces Academy, - including academic, financial, human resource, general, technology and student affairs management- should be improved. The managements of the foreign countries' armed forces academy schools were satisfactory in the opinion of their graduates. A proposed management model for The Royal Thai Armed Forces Academy Schools consisted of issues involving 1) adaptability 2) innovation 3) identity 4) qualitative administration 5) etiquette 6) information technology 7) human resources development 8) working to full potential and 9) being happy and ready to return benefit to the society

## Objectives

There are two objectives of this study. The first is to study the conditions and problems of the management in the Royal Thai Armed Forces Academy Schools and armed forces schools in foreign countries. The second is to present a management model for the Royal Thai Armed Forces Academy Schools according to the concept of an intelligent organization.

## Scope

1) The study of conditions and problems of the Royal Thai Armed Forces Academy Schools and armed forces schools in foreign countries, including academic, financial, human resource, general, technology and student affairs management.

2) The concept of an intelligent organization is taken from Pinchot and Pinchot (1996), Sydānaamlkka (2002), and Albrecht (2003).

3) The management model of the Royal Thai Armed Forces Academy Schools is based on the information from Chulachomklao Royal Military Academy, the Royal Thai Naval Academy and the Royal Thai Air Force Academy.

## Theoretical Proposition

This is a descriptive research of management based on the concept of an intelligent organization. The theory was applied to the management of the Royal Thai Armed Forces Academy Schools in order to create the most efficient method of management. The concepts and theories involved are as follows (see in next page):

## Method

This research was a descriptive research. The instruments employed were documentary analysis, content analysis, interviews, and questionnaires.

### Samples

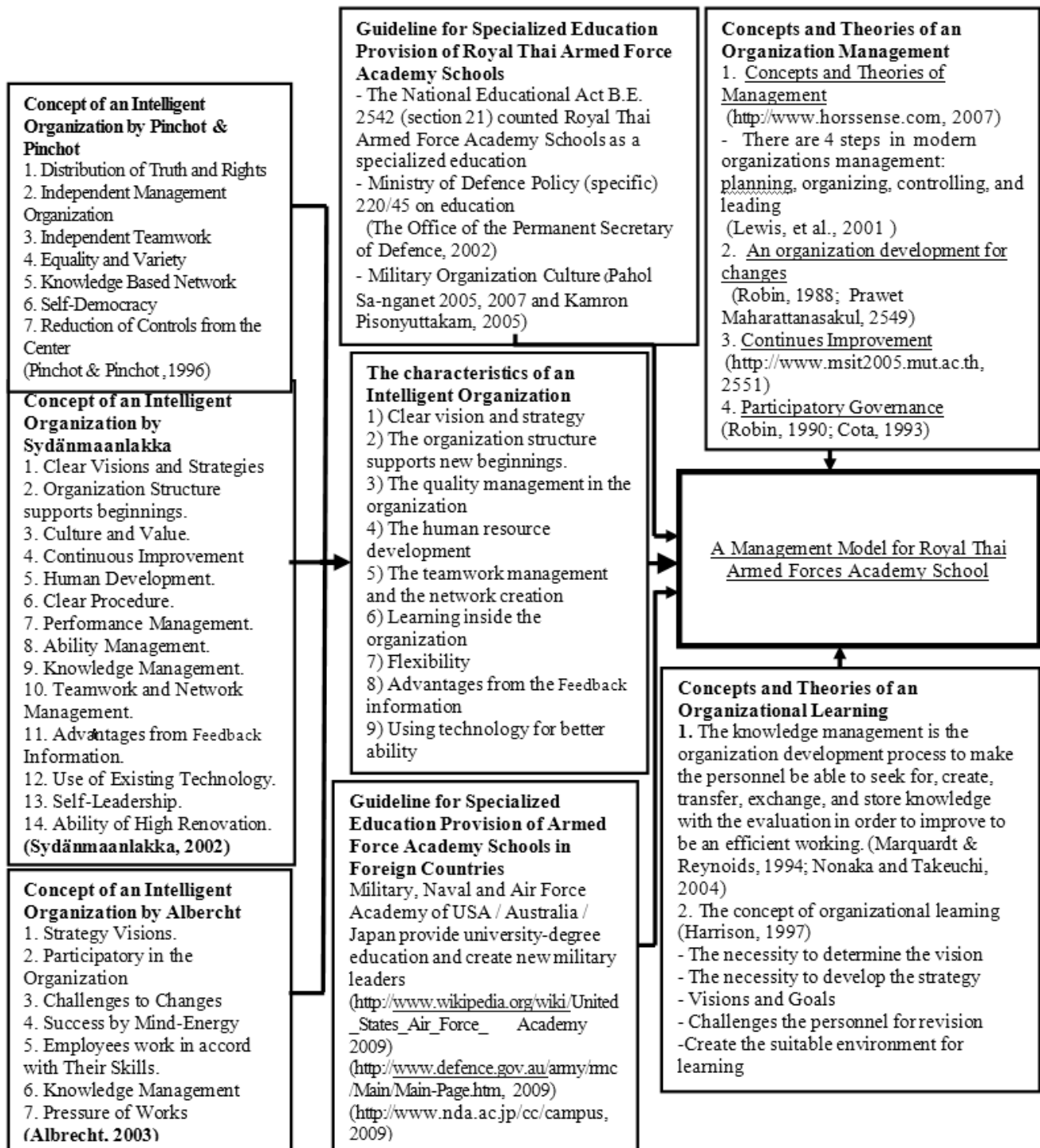
1. People who gave their opinions about the conditions of the management in the Royal Thai Armed Forces Academy and foreign countries' schools, consisting of the chief executives, directors of education divisions, and professors at Chulachomklao Royal Military Academy, The Royal Thai Naval Academy and The Royal Thai Air Force Academy. A total number of 254 participants were selected by a simple random sampling method.

2. Officers who had graduated from foreign armed forces schools in the United States of America, Japan, and Australia in 2004-2009. A total number of 18 officers were selected- using a purposive sampling method.

<sup>1</sup> Capt., WRTN, Ph.D., Candidate in Higher Education, Department of Educational Policy, Management and Leadership, Faculty of Education, Chulalongkorn university, Thailand

<sup>2</sup> Ph. D., Lecturer, Department of Educational Policy, Management and Leadership, Faculty of Education, Chulalongkorn University, Thailand

<sup>3</sup> Ph. D., Associate Professor, Department of Educational Policy, Management and Leadership, Faculty of Education, Chulalongkorn University, Thailand



3. People who gave their opinions about the definition of the various aspects of an intelligent business organization. These participants consisted of executive administrators or human resource managers of private organizations. A total number of 10 were selected by a purposive sampling method.

#### *Instrumentation*

1. Documentary analysis was used for collecting data about the concept of an intelligent organization from

the following research: Pinchot and Pinchot (1996), Sydänmaanlakka (2002) and Albrecht (2003).

2. Content analysis was used for collecting data from related books, documents, and electronic media.

3. Interviews were used for collecting data from: the commandants of Chulachomklao Royal Military Academy, the Royal Thai Naval Academy and the Royal Thai Air Force Academy: 18 officers who had graduated from foreign armed forces schools in 2004-2009: and

executive administrators or human resource managers of private organizations.

4. Questionnaires were used for collecting data from the chief executives, directors of education divisions, and professors at Chulachomklao Royal Military Academy, the Royal Thai Naval Academy and the Royal Thai Air Force Academy, as well as from officers who had graduated from foreign armed force schools. A total number was 254. The questionnaire consisted of two sets:

- The first set was for the Royal Thai Armed Forces Academy Schools, in order to obtain information about the conditions and problems there.
- The second set was for the officers who had graduated from foreign armed forces schools in 2004-2009.

#### *Data analysis*

1. The method of analyzing data from related books, documents, electronic media and interviews was content analysis.

2. The methods of analyzing data from the questionnaires were frequency, percentage, mean, standard deviation, t-test, and the Modified Priority Needs Index Technique PNI.

### **Results and discussion**

After data analysis, the results were divided into two parts based on the research objectives.

Education Standards and Quality Assessment in 2008, in order to transform an organization into a learning organization, there must be a development of the knowledge management data storage system and the development of a Management Information System (MIS).

The executive administrators and professors of the Royal Thai Armed Forces Academy Schools admitted that most of the schools' development towards becoming learning organizations is in progress.

The executive administrators of private organizations - consisting of Toyota Motor Thailand Co., Ltd.; Microsoft (Thailand) Co., Ltd.; Nokia (Thailand) Ltd.; HSBC (Thailand) Co., Ltd.; The Siam Cement Group; Advanced Info Service PLC.; Spansion (Thailand) Ltd.; I.C.C. International Public Co., Ltd.; and Knowledge Management Professional Center Asia - agreed with the definition of an intelligent organization:

An intelligent organization is an organization that can adapt itself to a changing situation in a socio-economic context, while always creating innovations, and maintaining an outstanding identity. It is a leading organization that focuses on qualitative administration a proceeding with etiquette, and also on the progression of an information technology system by allowing the personnel to learn and develop continuously, exerting both their intellect and mind, to work to their full potential, while being happy and ready to return benefits to society.

**Table 1: Management conditions of the Royal Thai Armed Forces Academy Schools**

Management condition	Royal Thai Armed Forces Academy Schools (n = 254)							
	The present practice level		The desired practice level		t	Sig.	PNI	No.
	Mean (SD)	Meaning	Mean (SD)	Meaning				
Visions and strategies	3.65 (0.77)	high	4.13 (0.69)	high	9.329**	0.000	0.132	7
Organization structure	3.09 (0.92)	medium	3.88 (0.93)	high	12.583**	0.000	0.256	1
General management and the application of modern technologies	3.33 (0.85)	medium	4.04 (0.86)	high	11.316**	0.000	0.213	3
Academic management	3.52 (0.62)	high	4.04 (0.65)	high	11.669**	0.000	0.148	6
Budget management	3.19 (0.79)	medium	3.83 (0.89)	high	11.511**	0.000	0.201	4
Human resource management	3.30 (0.83)	medium	4.06 (0.87)	high	12.036**	0.000	0.230	2
Student affairs management	3.29 (0.72)	medium	3.87 (0.72)	high	11.550**	0.000	0.176	5

\*\* $P < 0.01$

*For objective 1, the results were as follows:*

The three researchers' concepts (Pinchot and Pinchot (1996), Syd ānaamlakka (2002), and Albrecht (2003) match in nine characteristics: visions and strategies; organization support structure; organization quality management; human resource development; learning inside the organization; teamwork management and network creation; using technology for better ability; flexibility and advantages from the feedback information.

From the findings of the internal and external education quality evaluation of the office for National

From Table 1, when the average values of the conditions of management are compared by a paired t-test, it can be seen that the condition that has the most needs is the "Organization structure" with the mean of the present practice level at 3.09 (medium) and the desired practice level at 3.88 (high). The condition having the second most needs is "Human resource management" with the mean of the present practice level at 3.30 (medium) and the desired practice level at 4.06 (high). The condition with the third most needs is "General management and the application of modern technologies" with the mean of the present practice

level at 3.33 (medium) and the desired practice level at 4.04 (high).

When the average values of the conditions of management are compared by a paired t-test, it can be seen that the average values of the present condition versus the desired ones are different with a statistical significance of 0.01 in every item. This means that the conditions of an intelligent organization are needed.

The PNI values of the conditions of management are from 0.132 to 0.256. The condition with the most needs for improvement are organization structure; human resource management; general management and the application of modern technologies; budget management; student affairs management; academic management; and visions and strategies respectively.

Consequently, the design of plans and policies of the education academy in order to improve the organization to be efficient has to consider three aspects: 1) "Organization structure" 2) "Human resource management" 3) "General management and the application of modern technologies."

innovations through intellect and leadership. In addition, this model will enable the personnel to learn and develop continuously by their acceptance of new information technology. The personnel will dedicate themselves to efficiency, and will always be ready to benefit society and make sacrifices for the nation.

For the discussion, the problems of the Royal Thai Armed Forces Academy Schools management, according to the present research, are in general management, technology management, academic management, budget management, human resource management, and student affairs management. Most of them have conflicts in human resource management (Kettat, 1999), and lack the information systems for proper administration (Bovornsiri, 1992). As an example of the armed forces academies in foreign countries, the U.S. Army War College is preparing to be a learning organization in the 21<sup>st</sup> century (Gerras, 2002). Based on the opinion of the executives of the schools, an armed forces academy should be a learning organization, which is an important part of an intelligent organization (Pinchot

**Table 2: Overview of problems at the Royal Thai Armed Forces Academy Schools**

Management condition	Frequency of problems (n = 151)		
	School A	School B	School C
Visions and strategies	18	12	6
Organization structure	19	14	9
General management and the application of modern technologies	13	5	22
Academic management	13	4	4
Budget management	17	18	21
Human resource management	15	16	18
Student affairs management	21	16	22

The information in Table 2 was from the written part of 151 questionnaires returned from those given to the 254 participants. From the overview in Table 2 of problems in the Royal Thai Armed Forces Academy Schools, it can be seen that: 1) the most frequently occurred problems in School A are problems of "Student affairs management" 2) the most frequently occurred problems in School B are problems of "Budget management" 2) the most frequently occurred problems in School C are problems of "General management and the application of modern technologies" as well as "Student affairs management"

*For objective 2, the results were as follows:*

The findings show that a model that best fits the Royal Thai Armed Forces Academy Schools would be as shown in the figure below (see in next page):

This model for the intelligent organization of Royal Thai Armed Forces Academy Schools will enable them to adapt to changing situations in a socioeconomic context, and pay attention to the quality of their administration. In this way, they will remain outstanding schools, continuously creating new military and other

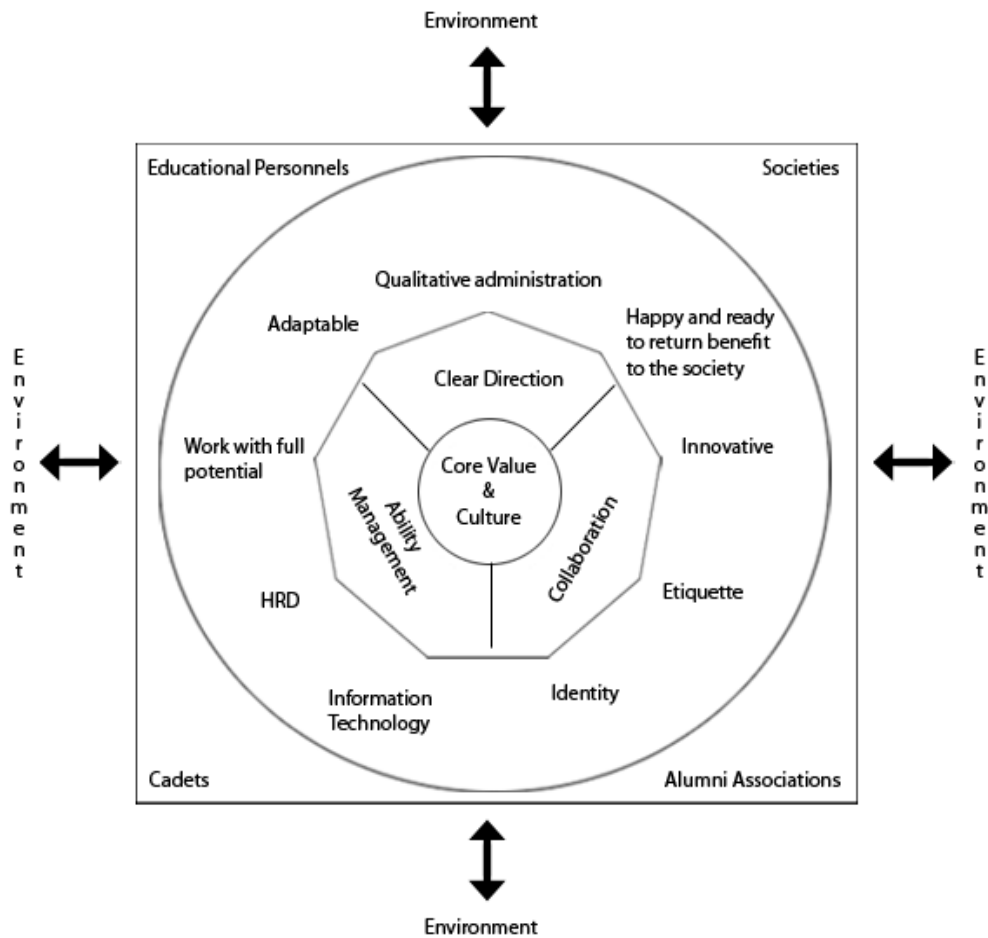
and Pinchot, 1996; Syd ännmaanlakka, 2002; Albrecht, 2003; Suwanwela, 2003).

The research results can be applied to the management of civil universities that have a policy to be an intelligent organization (Staškevičiūtė and Čiutiene, 2009), or to other foreign armed forces academies, such as those in other parts of Southeast Asia.

## References

- Albrecht, K. (2003). *The Power of Minds at Work: Organizational Intelligence in Action*. New York: Amacom.
- Bovornsiri, V. (1992). *Lecture Document Subject 421 602*. Bangkok: Chulalongkorn University.
- Eisner, E. (1976). Education Connoisseurship and Criticism: Their Form and Functions in Educational Evaluation. *Journal of Aesthetic Education*.
- Feldman, R.S. (1996). *Psychology*. 4<sup>th</sup> Ed. New York: McGraw-Hill.
- Frigon, N.L., and Jackson, H.K. (1996). *The Leader*. New York: Amecom.

### Model for Intelligent Organization of Royal Thai Armed Forces Academy Schools



- Garvin, D.A. (1993). "Building a Learning Organization", *Harvard Business Review*. 71, 4: 78-91.
- Gerras, S. J. (2002). *The Army as a Learning Organization*. PA: U.S. Army War College.
- Hatch, M. J. (1997). *Organization Theory: Modern Symbolic and Postmodern Perspectives*. New York: Oxford University.
- Ivancevich, J. M., et al. (1989). *Management: Principles and Functions*. 4<sup>th</sup> ed. Boston MA: Richard D. Irwin, Inc.
- Kast, F.E. and Rosenzweig, J.E. (1974). *Organization and Management: A System Approach*. Tokyo: McGraw-Hill Kogakuha.
- Kettat, C. (1999). The Presence of Education System Structure Under The Control of Ministry of Defence. Doctoral Dissertation, Chulalongkorn University.
- LeBouvier, R. D. and Buzzell, R. C. (2004). Strength, Weaknesses, Opportunities and Threat. The United States Naval War College, National Security Decision Making Department.
- Lewis, P.S.; Goodman, S. H.; Fandt, P. M. (2001). *Management Challenges in the 21<sup>st</sup> Century*. 3<sup>rd</sup> ed. Ohio: South-Western College Publishing.
- Marquardt, M. J. (2002). *Building the Learning Organization: Mastering the 5 Element for Corporate Learning*. Palo Alto: Davies-Black.
- McGregor, D. (1960). *The Human Side of Enterprise*, New York: McGraw-Hill.
- Mintzberg, H.. (1979). *The Structuring of Organization*. New Jersey: Englewood
- Moore, J.I. (2001). *Writers on Strategy and Strategic Management*. London: Penguin Group.
- Murry, J.W. and Hammons, J. O. (1995). Delphi: A Versatile Methodology for Conducting Qualitative Research. *The Review of Higher Education*. 18 (4): 423-436.
- "National Education Act B.E.2542 and edited version (the second edition) B.E.2545 with the related ministerial regulations and the compulsory education act B.E.2545." *The Government Gazette* 116, section 14 A. Bangkok: Chuanpim Publishing.
- Pinchot, G. & E., (1996). *The Intelligent Organization*. Berrett-Koehler Publishers
- The Intelligent Organization [Online] Available from: <http://www.pinchot.com> [September 28, 2007]
- Pisolyuttakarn, K. (2003). The Study of The Environmental Factors of The Internal

- Organization Management that Affect the Working Ability of Thai Navy, M.A. Thesis, Kasembandit University.
- Prejmerean M. and Vasilache S. (2007). A University's Organizational Intelligence. Netherlands: IC-Congress INHOLLAND University of professional education.
- Reeve, J. (1996). *Motivating Others: Nurturing Inner Motivational Resources*. Boston: Allyn and Bacon.
- Robbins, S.P. and Coulter, M. (1999). *Management*. New Jersey: McGraw-Hill.
- Robbins, S. P. (1988). *Organization Theory Structure, Design, and Applications*. Upper Saddle River, New Jersey: Prentice Hall.
- (2005). *Organization Behavior*, 11<sup>th</sup> ed. San Diego University: Pearson Prentice Hall.
- Sa-nganet, P. (2007). New Paradigm for Training System Management of the Ground Force. [online]. Source: <http://www.rta.mi.th/data/writicle/100349.htm> [11 October 2007]
- Scott, W.R. (1987). *Organizations: Rational, Natural and Open System*. 2<sup>nd</sup> ed. Englewood Cliffs, NJ: Prentice Hall.
- Senge, P. M. (1990). *The Fifth Discipline: The Art and Practice of the Learning Organization*. New York: Doubleday.
- Staškevičiūtė, I. and Čiutiene, R. (2009). Processes of University Organizational Intelligence: Empirical Research [Online]. Available from: <http://www.ktu.lt/lt/mokslas/zurnalai/inzeko/60/1392-2758-2008-5-60-065.pdf> [March 28, 2009]
- Staškevičiūtė, I. and Neverauskas, B. (2009). The Intelligent University's Conceptual Model [Online]. Available from: <http://internet.ktu.lt/lt/mokslas/zurnalai/inzeko/60/1392-2758-2008-5-60-065.pdf> [March 28, 2009]
- Suwanwela, J. (2003). An Academic Conference on Getting to be An Intelligent Organization [CD ROM]. Thai Private Institution of Education Association [18 July 2003]
- Sydänmaanlakka, P. (2002). *An Intelligent Organization*. United Kingdom: Capstone.