

PROCEEDINGS

ETINA-2018

**International Conference on
Recent Trends in Engineering Management
Information Technology, Networking
& Applied Sciences**

Venue: Hotel Mystays Ochanomizu Conference Center

Tokyo, Japan

Date: October 20-21, 2018



CONFERENCE BOOK OF ABSTRACT PROCEEDINGS

Consortium-ET

Consortium of Engineering & Technology



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Book of Abstracts Proceedings

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Proceedings of the International Conference on Recent Trends in Engineering Management, Information Technology, Networking & Applied Sciences (EITNA)

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***International Conference on Recent Trends in
Engineering Management, Information Technology,
Networking & Applied Sciences (EITNA)***

Venue: Hotel Mystays Ochanomizu Conference Center Tokyo, Japan

Conference Theme: An effective platform to meet other renowned experts in the filed of engineering and technology.



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Conference Coordinator

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CONFERENCE TRACKS

- Computer and Software Engineering
- Mechanical & Metallurgical Engineering
- Electrical & Electronics Engineering
- Civil Engineering
- Bio-Technology & Food Technology
- Chemistry & Chemical Engineering
- Physical, Applied and Life Sciences
- Interdisciplinary

CONFERENCE CHAIR MESSAGE

Michael Sasaoka

“International Conference of Consortium of Engineering & Technology” is a platform that thrives to support the worldwide scholarly community to analyze the role played by the multidisciplinary innovations for the betterment of human societies. It also encourages academicians, practitioners, scientists, and scholars from various disciplines to come together and share their ideas about how they can make all the disciplines interact in an innovative way and to sort out the way to minimize the effect of challenges faced by the society. All the research work presented in this conference is truly exceptional, promising, and effective. These researches are designed to target the challenges that are faced by various sub-domains of the social sciences and applied sciences.

I would like to thank our honorable scientific and review committee for giving their precious time to the review process covering the papers presented in this conference. I am also highly obliged to the participants for being a part of our efforts to promote knowledge sharing and learning. We as scholars make an integral part of the leading educated class of the society that is responsible for benefitting the society with their knowledge. Let’s get over all sorts of discrimination and take a look at the wider picture. Let’s work together for the welfare of humanity for making the world a harmonious place to live and making it flourish in every aspect. Stay blessed.

Thank you.

Michael Sasaoka

Conference Chair

Email: contact@consortium-et.com

CONFERENCE AGENDA

DATE: October 20-21, 2018

LOCATION: Hotel Mystays Ochanomizu Conference Center

DAY: Saturday-Sunday

EVENT TITLE: International Conference on Recent Trends in Engineering Management,
Information Technology, Networking & Applied Sciences EITNA-2018

Start Time

- 09:00 am - 09:10 am: Registration & Kit Distribution
- 09:10 am - 09:20 am: Introduction of Participants
- 09:20 am - 09:30 am: Inauguration and Opening address
- 09:30 am - 09:40 am: Grand Networking Session

Tea/Coffee Break (09:40 am -10:00 am)

CONFERENCE AGENDA

DATE: October 20-21, 2018

LOCATION: Hotel Mystays Ochanomizu Conference Center

DAY: Saturday-Sunday

EVENT TITLE: International Conference on Recent Trends in Engineering Management,
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Session: 01
10:00 am - 11:45 am: Presentation Session
Track A: Engineering, Technology & Applied Sciences

Presenter Name	Manuscript Title	Paper ID
Fahad alkharaqawi	Lean six sigma approach in oil and gas industry	TKE-4108-101
Jaehyuck Kim	Converter Topologies for a Variable-Speed Two-Phase SRM Drive	TKE-4108-102
Dr. Lubashevskiy Vasily	Energy consumption forecasting: agent based modelling of a developing urban area	EITNA-OCT18-102

Track B: Business, Economics, Social Sciences and Humanities

Peng Ti-Ching	The application of big data on house prices in Japan: Web data mining and machine learning	RBESH-OCT2018-110
Supharuk Aticom-suwan	Activities and Development Process of Cultural Intelligence for Undergraduate Students as perceived by Thai HR Managers	RBESH-OCT2018-103
Tung-Hsiao	The Information advantage of insiders and institutional investors in diversification process	RBESH-OCT2018-120
Wanee Niamhom	Training Course Development of Using English for Classroom Instruction of English Teachers in Primary School	RBESH-OCT2018-106
Mia Kim	On the study of blues: the spontaneous overflow of African Americans inner nature	RBESH-OCT2018-109
Dr. Weera Weerasophon	A management model of Pathum Wanaram Ratcha Wora Viharn temple to promote to the culture tourism	TKS-4108-101

Lunch Time: (11:45 am - 12:45 pm)

CONFERENCE AGENDA

DATE: October 20-21, 2018

LOCATION: Hotel Mystays Ochanomizu Conference Center

DAY: Saturday-Sunday

EVENT TITLE: International Conference on Recent Trends in Engineering Management,
Information Technology, Networking & Applied Sciences EITNA-2018

Session: 02
12:45 pm - 02:30 pm: Presentation Session
Track B: Business, Economics, Social Sciences and Humanities

Presenter Name	Manuscript Title	Paper ID
Prof. Dr. Isaias Lagsa Borres	Industry Analysis Of Pawnshop Businesses In The Philippines	RBESH-OCT2018-111
Teeraphun Kaewdok	Work Posture Assessment among Elderly Farmers in Pathumthani Province, Thailand	OSA-4108-104M
Supakorn Phoocharoensil	Grammatical and Lexical Errors in Low-Proficiency Thai Graduate Students Writing	RBESH-OCT2018-117
Supong Tangkiengsirisin	Effects of Form-focused Corrective Feedback on the Use of Tenses in Academic Writing	RBESH-OCT2018-119
Muneeroh Yeedum	Freedom in the World Index: Southeast Asian Democracy in Comparative Study	MRSSM-108-ANI104

Ending Note: (02:30 pm - 03:30 pm)

CONFERENCE AGENDA

DATE: October 20-21, 2018

LOCATION: Hotel Mystays Ochanomizu Conference Center

DAY: Saturday-Sunday

EVENT TITLE: International Conference on Recent Trends in Engineering Management,
Information Technology, Networking & Applied Sciences EITNA-2018

Participants Registered As Listener/ Observer

The following Scholars/ practitioners who don't have any paper presentation, however they will attending the conference as delegates & observers.

Official ID: RBESH-OCT2018-108

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CONFERENCE AGENDA

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DAY: Saturday-Sunday

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Information Technology, Networking & Applied Sciences EITNA-2018

Conference Day 02 (October 21, 2018)

Second day of conference will be specified for touristy. Relevant expenses are borne by Individual him/herself.



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TRACK A

ENGINEERING, TECHNOLOGY & APPLIED SCIENCES



Lean Six Sigma Approach in Oil and Gas Industry

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Keywords: Six Sigma, Rigorous, Performance Sigma

The fundamental objective of the Six Sigma methodology is the implementation of a measurement-based strategy that focuses on process improvement and variation reduction through the application of Six Sigma improvement projects. This is accomplished through the use of two Six Sigma sub-methodologies: DMAIC and DMADV. The Six Sigma DMAIC process (define, measure, analyze, improve, control) is an improvement system for existing processes falling below specification and looking for incremental improvement. The Six Sigma DMADV process (define, measure, analyze, design, verify) is an improvement system used to develop new processes or products at Six Sigma quality levels. It can also be employed if a current process requires more than just incremental improvement. Both Six Sigma processes are executed by Six Sigma Green Belts and Six Sigma Black Belts, and are overseen by Six Sigma Master Black Belts. According to the Six Sigma Academy, Black Belts save companies approximately \$230,000 per project and can complete four to six projects per year. (Given that the average Black Belt salary is \$80,000 in the United States, that is a fantastic return on investment.) General Electric, one of the most successful companies implementing Six Sigma, has estimated benefits on the order of \$10 billion during the first five years of implementation. GE first began Six Sigma in 1995 after Motorola and Allied Signal blazed the Six Sigma trail. Since then, thousands of companies around the world have discovered the far reaching benefits of Six Sigma. Many frameworks exist for implementing the Six Sigma methodology. Six Sigma Consultants all over the world have developed proprietary methodologies for implementing Six Sigma quality, based on the similar change management philosophies and applications of tools.

Converter Topologies for a Variable-Speed Two-Phase SRM Drive

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Keywords: Converter Topologies, Switched Reluctance Motors, Variable Speed Drives

This paper presents several low-cost converter topologies for variable speed two-phase switched reluctance motor (hereafter abbreviated as SRM) drive. The considered converters employs single-switch-per-phase configuration for low-cost, high-volume applications. Among them, the split AC converter preserves a single switch per phase as well as a single phase-leg rectifier circuit realizing the fewest component count to achieve a highly cost effective solution for two-phase SRM drive. Comparative study between the considered converter and other converters are provided. Analysis of the modes of operation and mathematical modeling are also provided. Analysis and simulation results are provided to validate the converter.

Energy Consumption Forecasting: Agent Based Modeling of A Developing Urban Area

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Studies, Japan

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Keywords: Agent Based Modeling, Energy Demand, Low Carbon Society

This work is devoted to the one of crucial problems of the disaster recovery management and of the renewable energy supply system development, the problem of evaluation of the electricity consumption by the urban area. In this work we propose an agent based approach that is constructed on the combination of the engineering technique, statistical information and numerical modeling. This approach enables us to evaluate the current demand in the urban area to develop the new low carbon society and to increase the resiliency of it. Using the data collected from the town Shinchi we demonstrate the capability of the developed approach to evaluate the electric power demand in the urban area. The obtained data are analyzed through the perspective of usage the solar generation and the as a result it will be shown that the partial shift to the renewable energy enables to increase the stability of the system against the disaster aftermath. The same result demonstrates that in perspective this partial shift to the renewable energy helps not only to decrease the living cost for local households but it leads to the significant decrease of the environmental pollution by the reduction of the CO₂ emission related to the electricity usage. This reduction is abundant to cover the threat to the environment caused by the increase of the population in the correspondent area. The given research presents the theoretical studies on the base of the validated data collected in the real town of Japan.



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TRACK B

***BUSINESS, ECONOMICS, SOCIAL SCIENCES AND
HUMANITIES***

The Application of Big Data on House Prices In Japan: Web Data Mining and Machine Learning

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Keywords: Web Parsing, House Price, Decision Tree, Random Forest, Japan

The empirical studies on house prices in Japan mainly relied on the house price indexes released by Ministry of Land, Infrastructure, Transport and Tourism. But this house price index mainly measure relatively large-scale geographical areas, including only Tokyo Metropolitan, Aichi Prefecture and Osaka Prefecture, which inevitably overlooks the changes of house prices in other prefectures. Moreover, these official data were published with time lag (e.g. house prices few months ago), which could hardly represent the real-time changes in housing market. Furthermore, official data may not cover the searchers preference for housing attributes. Given these disadvantages, researchers may overlook some variables which may have had influence on house prices, and thus the results of empirical analyses using official data may not be as satisfactory as expected. The authors thus apply big-data methodology, collect the detailed property data (including house prices and relevant attributes) on real-estate websites of Japan by adopting the web-parsing techniques, which is widely used in information technology field. Based on the housing literature, these real-time data will further be analysed by the machine learning techniques, including decision tree and random forest, to predict the movement of house prices in Japan, respectively. It is believed that the findings of this research project may offer insights for further studies in micro-analyses on house prices; moreover, the application of machine learning algorithm may widen the possibilities of empirical methods in examining housing- relevant issues.

Activities and Development Process of Cultural Intelligence for Undergraduate Students as perceived by Thai HR Managers

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Keywords: Cultural Intelligence, Development Process Of Cultural Intelligence, Learning And Activities For Cultural Intelligence.

Preparing undergraduate students to become new employees in the 21st Century requires them to have an intercultural competency, as many organizations are becoming multicultural workplaces. Thus, cultural intelligence is one of the most important factors that make a person qualified to work in organizations. This study's two aims were, first, to explore the activities that promote the development of cultural intelligence of undergraduate students as perceived by human resource (HR) managers and, second, to synthesize the elements of the development process of cultural intelligence. The data were collected from interviewing a purposive sample of 10 HR managers who had at least five years experience and who were working in multicultural organizations. Content analysis techniques, a coding method, and interpretation were used for the data analysis. It was found that there were several activities that promoted the development of cultural intelligence of undergraduate students which were employed by the HR managers. These were divided into four types of activities: (1) short-term activities, (2) cultivated awareness activities, (3) comparative learning activities and (4) explicit learning activities. Additionally, most of the activities were directed at giving the students knowledge of cultural and traditions, law, country information, as well as for building cross-cultural relationships. It was also found that the basic qualifications required by the organization for new graduates were focused on the principle of working well with others and were based on good conscience, responsibility for work, and being adaptable and flexible in different situations. The development process of cultural intelligence was divided into four stages: (1) stimulating interest in learning; (2) awareness development; (3) exploring the new cultural experience; and (4) installing the new cultural experience.

The information advantage of insiders and institutional investors in diversification process

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Keywords: Diversification, Information Advantage, Internal Capital Market

We analyze the information advantage of insiders and institutional investors from the efficiency of internal capital market defined in Billett and Mauer (2003). There are three major findings in this paper. First, the inefficient subsidies to constrained firms have significantly negative impact on the firms long-term performance. In addition, the diversified firms with transfer segments, both efficient and inefficient transfer, have significantly positive effect on the firms performance. Second, the insiders and institutional investors of diversified firms may use similar information regarding the internal capital market because they show the similar trading behavior with respect to efficient subsidies to both constrained and not constrained segments. Their reaction to the transfer segments, however, exhibits different patterns. Finally, the insiders play a more important role in the future market performance. Even though some types of internal capital market have significant impact on both the change of institutional holding and insider trading, the long-term market performance is significantly determined by insider trading. In sum, we conclude that both institutional investors and insiders have some information advantage of internal capital market. Insiders, however, have stronger impact on the diversified firms future performance.

Training Course Development of Using English for Classroom Instruction of English Teachers in Primary School

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Keywords: Course Development, Training Course, Using English for Instruction in Classroom

The purposes of this research were: 1. to develop and study the quality of training course in using English for instruction in classroom of English teachers in primary school, 2. to experiment of using training course in using English for instruction in classroom of English teachers in primary school. The research methodology was employed by research and development. The research samples was the 28 English teachers who taught in primary school, attended the training, studied the result of the experiment of training course in using English to teach in classroom. The tools in the research were a training course in using English to teach in classroom, congruency evaluation form, course of suitability form, testing knowledge and skill in using English before and after training, and a satisfactory questionnaire. The collecting data were distributed: a satisfactory questionnaire and a testing knowledge and skill in using English for English teachers who attended the training course before and after the training. The statistical data analysis were frequencies, percentage, mean, standard deviation and t-test. The research result was found that: 1. the development and studying the quality of training course of using English to teach in classroom was composed of principle and reason, the purpose of curriculum, curriculum structure, units of training, training approach, training materials, measurement and evaluation. When leading training course drafting that developed for the experts evaluation was found that it was suitable and capable of leading to use for training; 2. the result of the experiment in using training course by studying the result of knowledge testing and skill in using English before and after the training of English teachers who attended the training, were found that English teachers who attended training had knowledge scores and skill in using English after the training was higher than before significantly at the level of 0.05, nevertheless, the satisfaction of the participants in training were found that they were satisfied in the high level.

On the study of blues: the spontaneous overflow of African Americans inner nature

*Mia Kim

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Keywords: Sacrifice, Devastation, Double Identity, Blues, Positive Power

When we think of the root of American history, we can not but focus on African Americans sacrifice and devastation. But in spite of ourselves, we can realize that there has been some anger, simultaneously some limitless and spontaneously overflowing positive power bursting out of the deep ground. It is the very African Americans nature which is automatically given to them since they were born in the world. I would like to research this African Americans positive strong power based on the music they have innately. It is their precious cultural and mental inheritance from their parents and their ancestors. Looking into blues in that category will be a great opportunity to analyze African Americans double identity and their positive power. For this research, I will examine the background of the birth of blues historically and politically. Secondly, I will concretely study quite a little blues permeated through African Americans real life and history. Lastly, I will research the meaning of blues for the past and current African Americans.

A Management Model Of Pathum Wanaram Ratcha Wora Viharn Temple To Promote To The Culture Tourism

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Keywords: Thai Temple, Cultural Tourism, Pathum Wanaram Ratcha Wora Viharn Temple

This research is aim to explore and investigate of the areas that for management model for Pathum Wanaram Ratcha Wora Viharn temple. This research is divided in to 1 part which the first part is the part of quantitative research (respondents 10 research interviews) in order to explore and investigate of the development of cultural tourism of Thai temple. The research method was separated in to 5 parts as 1. Research study and collect the data. 2. To study in the field of culture tourism of Thai temple 3. To develop a culture tourism of Thai temple 4. To process A management model of Pathum Wanaram Ratcha Wora Viharn temple to promote to the culture tourism. In the beginning, the result is found that a Thai temple is able to develop for Promoting Culture Tourism. In additional

Industry Analysis of Pawnshop Businesses in the Philippines

*Prof. Dr. Isaias Lagsa Borres

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Keywords: Pawnshop, Collateralized loans, Sari-sari store, Porters five forces model, and Credit

Clients come into a pawnshop for three reasons. First they need cash, to obtain a quick loan. The second is to pawn private belonging such as jewelry, gadgets and other valuable items and the last is to buy unredeemed items that are for auction. But, now it has evolved into multi purposes. Pawnshop is now the same as sari-sari store that sells variety of products and services. Through the years like investment, pawnshop is likewise diversified into unrelated business strategy like the business of money remittance, money changing, bills payment for collections services, e-load, providing facilities in either sale of micro insurance products to households. Pawnshop is the oldest source of credit. It acquired popularity as an alternative source of credit in the Philippines. It is indeed small yet very tall because it can widen the sources of micro lending and speak itself the immediate and short term financial needs of unbanked individuals especially the low to middleincome households that banking institutions are not able to do. Pawnshops are involved in lending money for business and or personal purpose in exchange of collateral for loans. Some of them need to pawn a jewelry, gadget and other personal belonging that has been considered the nearly all widely recognized and speediest approach to respond a pressing requirement for generally little measures of money. Loans are collateralized ideally by consumers who have low income and leave the possessions for loan exchange. These kinds of loans are easy to operate; the lower and the middle income workers are first served by this industry. In the Philippines, pawnshop is one among the financial service providers (FSP) that is assisting to amplify the right to use to financial services of underserved and unserved clients. Many Filipinos say pawning is the most convenient way to augment money as compared to bank loan procedure. Its vital role that one cannot be undermined in the countrys economic growth and development.

Work Posture Assessment among Elderly Farmers in Pathumthani Province, Thailand

*Teeraphun Kaewdok

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Keywords: Working posture, Thailand, Ergonomics, Safety

Farmer workers were frequently exposed to injury at work due to incorrect working posture. Inappropriate working postures cause musculoskeletal disorders (MSDs) among the farmers, especially elderly farmers. The purpose of this cross-sectional study was to evaluate working postures among elderly farmers. A convenience sampling method was used to select elderly farmers from nine districts in Pathum thani province, Thailand. Three-part questionnaire included demographic data, working posture checklist and environment, and postural work sheet. Video recording on various tasks of the farmers was done and then snapshots were cropped from it for the assessment. The Rapid Entire Body Assessment technique (REBA) was used to assess risk of musculoskeletal injuries during farm working. There are five action levels for risk estimation relate MSDs with negligible to very high. The final snapshot samples consisted of 128 pictures. The results indicated that most of the postures were at the fourth level of the risk with 53%, which is the high risk and require to investigate and implement for the changes. The three postures with highest prevalence rates of inappropriate working posture were bending trunk forward, working with neck bend, and twisting trunk with 97.28%, 96.84%, and 95.99%, respectively. Conclusion: Harmful postures were identified during farm activities of elderly farmers. These findings revealed a preliminary data for further research related to musculoskeletal injuries. Ergonomic interventions and safety awareness are paramount for elderly farmers to prevent injuries during work in agricultural sector.

Grammatical and Lexical Errors in Low-Proficiency Thai Graduate Students Writing

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Keywords: Grammaticality Judgment, Exploring Low-Proficiency

A large number of past studies have investigated English learners different kinds of errors, using a variety of elicitation techniques, such as a translation task, a grammaticality judgment task, a role play, an essay, etc. (Abbasi and Karimnia, 2011; Hemchua and Schmitt, 2006; Sattayatham and Honsa, 2007; Ting, Mahadhir, and Chang, 2012; Yamashita and Jiang, 2010). The data drawn from such instruments, however, are sometimes criticized for not reflecting learners genuine L2 competence since these tasks can differ from those they perform in everyday life (Larsen-Feeman and Long, 1991). In other words, it is believed that learners true competence may be observed through a task that elicits more natural L2 use, e.g. free writing with some controlled topics (Phoocharoensil, 2009). The current study was therefore undertaken to bridge this gap by exploring low-proficiency Thai EFL students writing, with an emphasis on their grammatical and lexical errors, using a paragraph as the main data collection technique. It was revealed that Thai students seem to have more grammatical than lexical problems. The top-three grammatical errors found concern verbs, articles, word classes, while the lexical errors often deal with inappropriate word choice. Not only can these errors be attributed to the learners L1 influence, but they also seem to have resulted from learners confusion over the target language, the grammatical system of which is evidently complex.

Effects of Form-focused Corrective Feedback on the Use of Tenses in Academic Writing

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Keywords: Quasi-Experimental Design, Theoretical Explanation , Pedagogical Implications

Teacher corrective feedback plays a crucial role in improving EFL students writing. Form-focused corrective feedback (FFCF) can be delivered on students writing to reduce grammatical errors that might affect readers comprehension. Tense errors are usually critical and could confuse readers, and therefore should be minimized in writing. In this study, direct error correction and metalinguistic feedback were used with an intact group of 32 low-proficiency graduate students. With a quasi-experimental design, a pre-test and a post-test were administered to compare the number of tense errors before and after the treatment. Questionnaires were also administered to explore the participants attitudes towards the FFCF on tenses. Results of the post-test revealed a significant improvement in the students use of tenses. Survey data showed the participants positive attitudes towards teacher feedback delivery. Theoretical explanation and pedagogical implications are discussed.



Freedom in the World Index: Southeast Asian Democracy in Comparative Study

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Keywords: Freedom in the World index, Southeast Asian, Democracy

The research aims to categorizing the democracy status of 11 Southeast Asia countries through the Freedom in the World index since 1972 to 2017 (1973-2018 survey editions) and comparing the common and different factors of Southeast Asian democracy status. By the comparative method most-different method and the method of agreement to provide a factual overview of the Southeast Asian democracy status. The results revealed that 1) Since 1972 to 2017, there are more than half of Southeast Asia countries are designated to Not Free and Partly Free status. 2) There are several factors which influenced to Southeast Asia democracy: the political system; the single of executive power; freedom in press and media; laws; civil and political rights; human rights problem; the election; the pluralism in politics and freedom of expression.

UP COMING EVENTS

You can find the details regarding our upcoming events by following below:

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MISSION

To disseminate knowledge and help scholars, practitioners and administrators to promote the high quality research.

