

PROCEEDINGS

IEAS-2019

**2nd International Conference on Innovative
Applications in Engineering Technology
and Applied Sciences**

Venue: Hotel Mystays Ochanomizu Conference Center Tokyo, Japan

Tokyo, Japan

Date: May 25-26, 2019



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 2nd International Conference on Innovative Applications in Engineering Technology and Applied Sciences (IEAS)

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***2nd International Conference on Innovative Applications
in Engineering Technology and Applied Sciences (IEAS)***

Venue: Hotel Mystays Ochanomizu Conference Center Tokyo, Japan

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



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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: May 25-26, 2019

LOCATION: Hotel Mystays Ochanomizu Conference Center

DAY: Saturday-Sunday

EVENT TITLE: 2nd International Conference on Innovative Applications in
Engineering Technology and Applied Sciences IEAS-2019

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: May 25-26, 2019

LOCATION: Hotel Mystays Ochanomizu Conference Center

DAY: Saturday-Sunday

EVENT TITLE: 2nd International Conference on Innovative Applications in
Engineering Technology and Applied Sciences IEAS-2019

Session: 01
10:00 am - 12:00 pm: Presentation Session
Track A: Business, Economics, Social Sciences and Humanities

Presenter Name	Manuscript Title	Paper ID
KEAS-MAY2019-112	Music Teacher In Thailand 4.0: Case Study Of Piano Teachers	Sirima Panapinan
KEAS-MAY2019-113	Skills and Student Development of Music Study of Suan Sunandha Rajabhat University Consistent with the 21st Century	Thassanai Phensit
KEAS-MAY2019-114	Role of Thai Music in Educational System in the Next Decade	Asst. Prof. Pansak Vandee
KEAS-MAY2019-115	Suan Sunandha Rajabhat University Music Student: The Study on Most Practical Classical Guitar Resource	Patommavat Thammachard
KEAS-MAY2019-116	Basic Vocal Skills Development of the First-Year Students, Majoring in Vocal, department of Music, Suan Sunandha Rajabhat University	Awasdakan Poomee
KEAS-MAY2019-117	The Basic Thai Clarinet Development Using Standard Notation of Suan Sunandha Rajabhat university music student	Pramot Teangtrong
KEAS-MAY2019-118	Estimating the spatial distance of image feature match by CNN deep learning technique	Yang Zhen-Hao
KEAS-MAY2019-119	Desirable Characteristics of Academy Administrators in Thailand 4.0	Sansanee Jasuwan
Track B: Engineering, Technology & Applied Sciences		
IEAS-MAY19-102	Identifying the Factors Affecting the Use of Prefabricated Construction Systems in Turkey	Gulden Gumusburun Ayalp
IEAS-MAY19-104	Using A Two-Stage Stochastic Programming Model to Solve The Sustainable Supply Chain Network Design Under Uncertainty	Yin-Yann Chen

Lunch Time: (12:00 pm - 01:00 pm)

CONFERENCE AGENDA

DATE: May 25-26, 2019

LOCATION: Hotel Mystays Ochanomizu Conference Center

DAY: Saturday-Sunday

EVENT TITLE: 2nd International Conference on Innovative Applications in
Engineering Technology and Applied Sciences IEAS-2019

Session: 02
01:00 pm - 03:00 pm: Presentation Session
Track A: Business, Economics, Social Sciences and Humanities

Presenter Name	Manuscript Title	Paper ID
KEAS-MAY2019-120	Legal Protection for Creditors in the Loans Agreement for Lending Money Connected to the Decision of the Constitutional Court Number 69 / Puu-Xiii / 2015	Daniel Hendrawan
KEAS-MAY2019-123	Factors Influencing Local Poverty Proliferation Due to Villagers Migrating to Major Cities in Bangladesh	Subed Ali
KEAS-MAY2019-124	The Challenges of Learning and Teaching German (as a Foreign) Language in Times of Migration	Manuela Svoboda
TKS-459-101	Impact of RBI's Liquidity Policies on the Profitability of Commercial Banks	Koduri.Veena
TKS-459-102	Part of Speech (Pos) Analysis in the ToEIC Tests	Pacharakamon Promprasert
TKS-459-103	Attitude of the public toward the service of Samsen Police Station. Bangkok	Pattamanon Promkamnoi

Ending Note: (03:00 pm - 04:00 pm)

CONFERENCE AGENDA

DATE: May 25-26, 2019

LOCATION: Hotel Mystays Ochanomizu Conference Center

DAY: Saturday-Sunday

EVENT TITLE: 2nd International Conference on Innovative Applications in
Engineering Technology and Applied Sciences IEAS-2019

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.

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CONFERENCE AGENDA

DATE: May 25-26, 2019

LOCATION: Hotel Mystays Ochanomizu Conference Center

DAY: Saturday-Sunday

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Engineering Technology and Applied Sciences IEAS-2019

Conference Day 02 (May 26, 2019)

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

Identifying the Factors Affecting the Use of Prefabricated Construction Systems in Turkey

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Keywords: Prefabricated Construction System, Construction Management, Turkey.

Prefabrication is a manufacturing process that takes place at a specialized facility, where various materials are joined to form a component part of the final installation. In the construction industry, prefabrication is regarded as the first level of industrialization, which is followed by mechanization, automation, robotics, and reproduction. Prefabricated construction technology is recognized as offering easier and quicker erection of the building structure, lower project cost, succeeding in tighter control quality, less material waste. Although this system brings so many advantages, the use of precast concrete systems in Turkey is at very low level when compare to European countries. The main aim of this research is to identify the factors that affect the use of prefabricated construction systems in Turkey. The reasons for prefabricated systems are not used extensively in Turkey were explored through three questionnaires that were conducted to design firms, prefabricated system/element manufacturers and contractors. The surveys applied to participant by face to face or via e-mail. Obtained data were analyzed statistically by using SPSS 22 software. The analysis of data is done to rank the severity of reasons. Ranking was followed by comparison of mean values within groups (design firms, manufacturers, and contractors). As a result, top ten critical reasons that effects the use of prefabricated construction systems were identified. Finally, solutions and recommendations were offered.

Using A Two-Stage Stochastic Programming Model to Solve The Sustainable Supply Chain Network Design Under Uncertainty

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Keywords: Closed-loop Supply Chain, Two-Stage Stochastic Programming, Supply Chain Network Design.

In this paper, we develop a two-stage stochastic programming approach for a closed-loop sustainable supply chain network design problem under uncertainty, considering logistics flows, capacity expansion and technology investments of existing and potential facilities, and the uncertainty that occurred in customer demand and return quantity. A two-stage stochastic programming model that captures the trade-off between the total cost and the carbon dioxide (CO₂) emission is proposed from the economic and environmental perspective, respectively. In the numerical evaluation and results, the relationship between the total cost and carbon emission will be analyzed by the Pareto-optimal solution set. Moreover, the applicability of the two-stage stochastic programming model was verified and then compared with the model of certainty. The result shows the sustainable supply chain that considers the uncertainty of demand and return quantity is more robust. The effect of various raw material costs and recovery rates on the design of the supply chain network was discussed through parameter analysis.



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TRACK B

BUSINESS, ECONOMICS, SOCIAL SCIENCES & HUMANITIES

Music Teacher in Thailand 4.0: Case Study of Piano Teachers

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Keywords: Music teacher, Thailand 4.0, Piano teachers

The purpose of this research was to study the needs of music teachers, especially the piano teachers and to study the necessary knowledge and competency of the piano teachers in Thailand 4.0. This research was qualitative research, data was collected by in-depth interviews with 15 music teachers, musicians and academic experts. The research results found that the piano teachers are also desirable in the field of music instruction, especially piano teaching for children aged 6-10 years. Piano skill helps them in developing children's physical, mental, emotional, social, concentrate to study, that made children success in learning achievement. The necessary knowledge for piano teachers are piano skills, child psychology, technique of teaching and innovative piano teaching that will stimulate interest and develop better learning. The essential feature for piano teachers in Thailand 4.0 are to have a good personality, lifelong learning, friendly, ability to communicate in English, use the technology well, creativity and musical talent.

Skills and Student Development of Music Study of Suan Sunandha Rajabhat University Consistent with the 21st Century

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Keywords: Suan Sunandha Rajabhat University, Music, 21st Century, Skill and Development

According to the research of music study in university in Thailand, the researcher is interested in studying and finding formats and guidelines of music study in university in order to enhance skills and student development in addition to the major subjects and to meet the needs of learners, graduates employers as well as the needs of labor market in the society. This research is a qualitative research. The purpose is to study trends for developing skills of music students of Suan Sunandha Rajabhat University in connection with the 21st century. The population of this research is all related persons and users of music study in Suan Sunandha Rajabhat University as follows: 1) 2 responsible persons of music study 2) 5 responsible instructors of music study 3) 10 music instructors of music study and 4) 40 music students of Suan Sunandha Rajabhat University. The data is collected from the questionnaires and the interviews and is summarized from descriptive synthetic analysis. The results are found that 1) the curriculum must be modernly-modified 2) the skills of the learners consistent with the 21st century must be according to the 3R 7C Principles by integrating into the 6 areas in Thai Qualifications Framework for Higher Education; TQF:HED as follows: Virtue and Ethics, Knowledge, Cognitive Skills, Interpersonal Skills and Responsibility, Numerical Analysis, Communication, and Information Technology Skills, and Psychomotor Domain

Role of Thai Music in Educational System in the Next Decade

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Keywords: Thai Music, Educational System, Next Decade

The aims of this research were to study the teaching of music in the basic education system and to study the role of Thai music in teaching and learning in schools in the basic education level in the next decade. This research was a combination of qualitative research and quantitative research, collecting data by using questionnaire 240 sets from music teachers in elementary school in Bangkok Metropolis, and in-depth interviews 7 persons from music teachers, administrators and educational experts. The research results found that currently, the teaching of music in the elementary school was divided into two types of teaching: the course of music content and teaching music activity. Students are more interested in Western music than Thai music. From the questionnaire, students interested in studying music practice rather than studying theory. The Thai musical instrument that students are most interested in that are Khim, Ranad Ek, Klui, Jakae, Saw-U and Saw-Duong respectively. Role of Thai music in teaching and learning in elementary schools in the next decade found that Thai music is encouraged to teach in schools because it is the part of Thai culture, but the teaching style should be used to innovate in teaching. Teachers must teach students love in Thai music and use Thai music as a tool for understanding Thai culture. Students must perform Thai music with quality.

Suan Sunandha Rajabhat University Music Student: The Study on Most Practical Classical Guitar Resource

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Keywords: Classical Guitar, Guitar Resources, Suan Sunandha Rajabhat University

Finding the appropriate method for student is not only improve the playing technique, but it will increase level of motivation, and will affect music learning process predominantly. Learning process will show different result when using each different methodology. The objective of this research is to find the most practical guitar resource for Suan Sunandha Rajabhat university (SSRU) music student (Classical guitar major). The research instrument includes: 1) In-depth interview with guitar professor from 4 different universities in Bangkok 2) Focus group discussion with 5 SSRU music students (Classical guitar major). The research tools will indicate creditable result because most participant are proficiency and expert in classical guitar. The result has shown that Pumping Nylon: The Classical Guitarists Technique Handbook (Scott, 2002) is the most mentioning resource in the discussion and interview process. In conclusion, Pumping Nylon: The Classical Guitarists Technique Handbook (Scott, 2002) consider the most practical guitar resource for SSRU classical guitar students.

Basic Vocal Skills Development of the First-Year Students, Majoring in Vocal, department of Music, Suan Sunandha Rajabhat University.

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Keywords: Basic Vocal, Skills Development, Suan Sunandha Rajabhat University

This research on basic vocal skills development of the first-year students, majoring in Vocal, department of Music, Suan Sunandha Rajabhat University was a qualitative research. The researcher collected scholastic document data, research works and several textbooks including interviews of the first-year students, majoring in Vocal, department of Music for 18 persons and other 2 vocal skills professionals. Moreover, the researcher also had observed students in the classrooms. In data analysis, the researcher arranged description by using an explanation and data categorization method. This research had the objectives as follows: 1) to solve problems in basic vocal skills of the first-year students, majoring in Vocal 2) to improve basic vocal skills of the students, and 3) to apply the research data for development of teaching arrangement appropriate to the students of practical music skills in basic vocal. From the study, the results of the research were found that individual students had different problems in basic vocal skills, 14 students did not have any basic vocal skills before studying at a higher education level, which caused them could not know the accurate basic vocal skills. In this group of students, it could be categorized into 5 subgroups as follows: 1) those who did not have accurate breathing and wind using 2) those who did not have accurate singing and vocalization methods 3) those whose singing did not match musical tone levels 4) those who had bad skills in musical note reading on treble and bass clefs and 5) those who did not have practical skills in synchronizing between piano and singing. The researcher used those 5 categories of the research results as a guideline for teaching arrangement to improve basic vocal skills of the first-year students, majoring in Vocal, department of Music as follows: 1) focusing on group skills practice and explanations to each student individually 2) the instructor added additional teaching periods in skills practice for the first-year students, majoring in Vocal, department of Music 3) added teaching contents in synchronizing between piano and singing 4) more focusing on practical skills in listening and singing on the learning exercises and musical scales. It was important for the students majoring in basic vocal skills should practice regularly



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and continuously after the classes for their development with more effectiveness.

Estimating the spatial distance of image feature match by CNN deep learning technique

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Keywords: Image Match, Feature Match, CNN, Deep Learning, Regression

Image feature detection and matching is an important technology in computer vision. Typically, image feature detection and matching is performed by feature descriptors such as SIFT and SURF, which can be used to evaluate the similarity of two image features. Although these methods can effectively detect and compare image features, it cannot give the true spatial distance between two features in the image plane. (i.e., the distance between the two features when one feature is mapped to the image plane of the second feature). Recently, due to the rapid development of deep learning, deep learning has made great progress and success in many fields. Deep learning techniques such as CNN have also been applied to image feature matching. These methods mainly use the results of CNN intermediate layers as feature descriptors, and then use a fully connected layer to calculate the similarity of two image patches. However, similar to SIFT or SURF, these methods cannot tell us the spatial distance of two features in the image plane. In addition to determining whether the features are correctly matched, the spatial distance of the image features in the image plane can also be used as a feature selection mechanism for high level applications that should verify the degree of correctness of the feature match. In view of its importance, in this study we propose a feature spatial distance estimation technique based on CNN deep learning network. This method is not designed from the perspective of classification, that is to classify a feature match is correct or not. Instead we employ a regression layer in the learning network to estimate the spatial distance of the matched features in the image plane. In this way, more information about image feature matching can be obtained, which is more useful for subsequent high level applications.

The Basic Thai Clarinet Development Using Standard Notation of Suan Sunandha Rajabhat university music student

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Keywords: Basic Thai Clarinet, Standard Notation , Suan Sunandha Rajabhat University

The purpose of this research is to study the basic Thai Clarinet development using standard notation of Suan Sunandha Rajabhat university music student. In the past, Thai clarinet lesson was learning by ear conducted by the instructor, which was slow processing. Therefore, researcher now using the standard notation for teaching. By comparison between learning by ear, and learning using standard notation, student learning faster using standard notation. Moreover, the instructor had more time to teach more technique and knowledge, also student got more time to practice by using notation. In conclusion, learning using standard music notation make student learning faster and more virtuosity.

Desirable Characteristics of Academy Administrators in Thailand

4.0

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Keywords: Desirable characteristics, Academy administrators, Thailand 4.0

The purpose of this qualitative research was to study the desirable characteristics of academy administrators in Thailand 4.0. The data was collected by in-depth interviews with 9 scholars with administrative and Thailand 4.0 model experience. The data analyze by summarize and content analysis. The results of this research indicate that the desirable characteristics of academy administrator in Thailand 4.0 consist of 5 elements as follow 1. Decision-making skill, 2. Competence in motivation people, 3. Responsibility, 4. Intelligence and Competence, 5. Personality

Legal Protection for Creditors in the Loans Agreement for Lending Money Connected to the Decision of the Constitutional Court Number 69 / Puu-Xiii / 2015

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Keywords: Marriage, Marriage Agreement, Lending and Borrowing Agreement, Due to Law, Legal Protection

In Indonesia, the Marriage Agreement has long been valid and regulated in the legislation in Law Number 1 of 1974 concerning Marriage. Marriage Agreement regulates marriage property. In Article 29 paragraph (1) of Law Number 1 Year 1974 concerning Marriage stipulates that marriage agreements must be made before the marriage takes place, but in 2015 the Constitutional Court issued Decision Number 69 / PUU-XIII / 2015 concerning changes to Article 29 paragraph (1), paragraph (3), and paragraph (4) of Law Number 1 of 1974 concerning Marriage which states that the Marriage Agreement can be made before, during, and after the marriage takes place. Legal protection that can be given to creditors is to pay attention to the element of good faith in each loan agreement making so that creditors will be protected by themselves, if one of the parties making the loan agreement has bad faith, the loan agreement will automatically be canceled law because it does not meet the objective requirements.

Factors Influencing Local Poverty Proliferation Due to Villagers Migrating to Major Cities in Bangladesh

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Keywords: Climate Migrant, Extreme Poverty, Proliferation, Settler, Locality

The major recurring incidents that have forced the local villagers of Bangladesh to move their lives and livelihood to major cities have remained unchanged for quite a while, and the same could be said for the biggest problem that comes with forced migration; extreme poverty. The main objective of this research is to find out the factors that influenced and continues to influence the unchanging poverty situation of the climate migrants belonging in the major cities in Bangladesh. The study will also find out the current situation of the climate migrants, their ways to cope with extreme destitution, and its effects on the surrounding areas with high concentration of climate migrants in Bangladesh perspective. To complete the above mentioned objectives, 196 samples were selected from various slum areas considering three large cities (Dhaka, Chittagong, and Sylhet) by using the statistical method. The sampling technique that has been used to complete this study was clustering method as the samples were selected from three different geographical locations from Bangladesh. A household survey and interview was conducted in order to gain the necessary data. The study examines the effect of the independent variables (food conditions, food expense, hygiene condition, family size, daily income, house rent, housing condition, satisfaction level, job, emigrant) have on the local poverty proliferation in Bangladesh. The study finds out how the migrants are affecting the surrounding locality of their living areas. The findings showed that most of the settlers are suffering mostly from the lack of proper food, hygiene, working conditions, and the surrounding areas are also negatively affected. The study attempts to take out the climate migrants in the forefront in Bangladesh society in order to lessen the problems associated with poverty.

The Challenges of Learning and Teaching German (as a Foreign) Language in Times of Migration

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Keywords: migration, German as foreign/second language, language acquisition, integration, foreign language teaching

In this paper a closer look will be taken at the challenges that arise in the field of learning and teaching German (as a foreign) language in times of migration with regards to Germany being one of the desired countries, even the top country in Europe for migrants. As Germany has a long tradition of migration, which has always existed to one degree or another, the paper begins with a short overview of Germany's history of migration, followed by an exposition on the present migration status in Germany. The subsequent section *inter alia* points out the importance as well as the challenges for immigrants to learn the German language and therefore acclimatize to customs of their new home country, as this is essential for integration into society as well as school and work environments. Hence, a sufficient number of integration courses for adults must exist as well as intensive courses for children of migrants in schools in order to provide an opportunity to learn the target language as soon as possible. In turn, this results in a higher demand for German (as foreign/second) language teachers. Therefore, the final chapter of this paper focusses on presenting and evaluating the demand for German (as foreign/second) language teachers from 2014 up to the present date and how the Federal Government of Germany responded to the increasing demand in this field. For this purpose, available information on relevant web pages of Federal Agencies (e.g. Ministry of Education and Cultural Affairs, Federal Office for Migration and Refugees), as well as relevant reports and studies are examined and evaluated. Finally, the conclusion offers a brief summary and critique of the findings and a forecast on future development in this field.

Impact of RBI's Liquidity Policies on the Profitability of Commercial Banks

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Keywords: RBI, CRR, SLR, NDTL, ROA, and ROI.

RBI, the Central bank of India, plays a major role in managing liquidity in the economy through CRR, SLR. Cash Reserve Ratio (CRR) is the ratio at which the banks need to maintain funds with RBI as a portion of their Net Demand and Time Liabilities (NDTL). Statutory Liquidity Ratio (SLR) is the ratio at which the commercial banks in India are to maintain funds as a proportion of Total Demand and Time Liabilities, in the form of Cash, Gold reserves, RBI approved securities. The fluctuations in SLR, CRR will have direct effect on the liquidity of Commercial banks which in turn would affect their lending ability and Profitability. This paper examines the relationship between RBI's prescribed rates of SLR and CRR and profitability of Indian Banks. The distinction between Public sector banks as well as Private sector banks is discussed. The analysis indicates the extent of RBI's impact on the liquidity and profitability of the commercial banks.

Part Of Speech (Pos) Analysis In The ToEIC Tests

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Keywords: Part of Speech, TOEIC, AntConc

Test of English for International Communication (TOEIC) is not only the standard test of English language proficiency for international communication but also a crucial test for a job application to the top international companies in Thailand. The aim of TOEIC is to test how effectively the test takers can communicate in English under working environment. To achieve this, vocabulary seems to be one of the basic requirement for the test takers, meaning that the test takers need to know TOEIC word lists. Although TOEIC word lists are commonly available for the test takers, it can be argued that to be successful in taking the test, vocabulary is needed to be learned with its part of speech (POS). Therefore, this study aims to investigate POS of 30 TOEIC practice tests by using AntConc and TagAnt programs. We found that nouns are the most frequent words. It seems that investigating POS not only reveals key vocabulary but also key grammatical structures which are very important for taking the tests in reading and grammar sections.

Attitude of the Public toward the Service of Samsen Police Station. Bangkok

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Keywords: Attitudes, Service of Police Station, People

This research aimed to study. (1) To study the attitude of people towards the service of Samsen Police Station, Bangkok (2) To compare the difference between personal factors and attitude of people towards the service of Samsen Police Station. The sample used in the study was 400 persons by questionnaire. The statistics used in the analysis were percentage, mean, deviation, t-test, one-way ANOVA. The difference in LSD was set statistically significant at .05. The study indicated that (1) Overall, The results of the study on public attitudes toward service quality were at moderate level, followed by continuous service at a moderate level. The service is fast and easy in the moderate level. And the last one is the progressive service also at a moderate level. (2) There is no difference in attitude in results of quality of life according to personal factors showed that gender, age and educational level. For marital status and occupation were statistically significant differences at .05 level.

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