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Research**

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## **Organizing Committee**

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**2. Mr. Leon Yap**

*Conference Coordinator*

**3. Mr. Metin**

*Conference Coordinator*

**4. Ms. Petrel Qiu**

*Conference Coordinator*

# Contents

<b>DISCLAIMER</b>	<b>3</b>
<b>ORGANIZING COMMITTEE</b>	<b>4</b>
<b>CONFERENCE CHAIR MESSAGE</b>	<b>7</b>
<b>CONFERENCE SCHEDULE</b>	<b>8</b>
<b>LIST OF CONFERENCE ATTENDEES</b>	<b>11</b>
<b>TRACK A: BUSINESS, ECONOMICS, SOCIAL SCIENCES AND HUMANITIES</b>	<b>13</b>
<b>Psycho Geography as Seen in Patrick White's A Fringe of Leaves</b>	<b>14</b>
<b>Awareness of B��Tl��S H��Stor��Cal Cultural Assets: The Example of Bitlis Eren University��TMS Students</b>	<b>15</b>
<b>Infinitely Repeated Two Dimension Effort Rent Seeking Contests</b>	<b>16</b>
<b>Who will be the Potential Consumers of K-Culture? Function of Social Media Usage</b>	<b>17</b>
<b>Does Energy Efficiency Label Promote Market Competition? The Evidence from Taiwan</b>	<b>18</b>
<b>Peace Education for World: Exploring the Plurality Dialogue Concepts of Abraham Religion on Multiculturalism Responses</b>	<b>19</b>
<b>Tablet as a Training Material: Contribution of Content Diversity to Education Rate</b>	<b>20</b>
<b>Turkish Films as A Socio-Realistic Reflection of Social Change in Turkey</b>	<b>21</b>
<b>Usability Evaluation of the Operational Interface of the NARERO Learning System</b>	<b>22</b>
<b>Child Friendly Family Education in Indonesian – Javanese Traditional House Construction</b>	<b>23</b>
<b>Perceptions on the Money Creation; Role of Central Bank and Private Commercial Banks</b>	<b>24</b>
<b>Avenues of Foreign Direct Investment in Indian Education Sector</b>	<b>25</b>
<b>The English Language Program in Osaka’s public Elementary and Junior High Schools- a study of CNETs/ALTs’ Perspectives</b>	<b>26</b>
<b>User Emotion Prediction for Recommender Systems</b>	<b>27</b>

<b>TRACK B: ENGINEERING AND TECHNOLOGY, COMPUTER, BASIC AND APPLIED SCIENCES</b>	<b>28</b>
<b>Monte Carlo Simulation of a Biological Control of Mealybug in a Cassava Field by Green Lacewings with Seasonal Effect</b>	<b>29</b>
<b>Protection Method and Numerical Model Analysis for Improvement SPD Performance</b>	<b>30</b>
<b>Determine Flight Pattern for Reducing Power Consumption of Multi-Rotor in Point to Point Path</b>	<b>31</b>
<b>A Method of Correlation Analysis of Brain Signals by Muscle Activation</b>	<b>32</b>
<b>SCIENTIFIC BOARD</b>	<b>33</b>
<b>CONTACT US</b>	<b>34</b>
<b>VENUE</b>	<b>35</b>

## Conference Chair Message

**Dr. Hungxiz Li**

International Conference on “Multidisciplinary Research in Development of Social Science Research” serves as platform that aims to help the scholarly community across nations to explore the critical role of multidisciplinary innovations for sustainability and growth of human societies. This conference provides opportunity to the academicians, practitioners, scientists, and scholars from across various disciplines to discuss avenues for interdisciplinary innovations and identify effective ways to address the challenges faced by our societies globally. The research ideas and studies that we received for this conference are very promising, unique, and impactful. I believe these studies have the potential to address key challenges in various sub-domains of social sciences and applied sciences.

I am really thankful to our honorable scientific and review committee for spending much of their time in reviewing the papers for this event. I am also thankful to all the participants for being here with us to create an environment of knowledge sharing and learning. We the scholars of this world belong to the elite educated class of this society and we owe a lot to return back to this society. Let’s break all the discriminating barriers and get free from all minor affiliations. Let’s contribute even a little or single step for betterment of society and welfare of humanity to bring prosperity, peace and harmony in this world. Stay blessed.

Thank you.

Dr. Hungxiz Li  
Conference Chair  
MRDS– 2017

# Conference Schedule

**DAY 01 Thursday (December 28, 2017)**

**Venue: Room 1**

09:00 am – 09:30 am	Welcome Reception & Registration
09:30 am – 09:40 am	Opening Ceremony
09:40 am – 09:50 am	Welcome Remarks – <b>Ms. Petrel Qiu</b> – Conference Coordinator MRDS
09:50 am – 09:55 am	Introduction of Participants
09:55 am – 10:00 am	Group Photo Session
10:00 am – 10.30 am	Grand Networking Session and Tea Break



**DAY 01 Thursday (December 28, 2017)**

**Session I (10:30 am – 12:30 pm)**

**Venue: Room 1**

**Session Chair: Dr Roli Pradhan**

**Track A: Business, Economics, Social Sciences and Humanities**

<b>O-127-108</b>	Psycho Geography as seen in Patrick White's A Fringe of Leaves.	Rakhi Sameer
<b>O-127-112</b>	Awareness of BÄ°TLÄ°S HÄ°STORÄ°CAL Cultural Assets: The Example of Bitlis Eren Universityâ€™S Students	Hale Telli
<b>O-127-114</b>	Infinitely Repeated Two Dimension Effort Rent Seeking Contests	dr. teng, jimmy
<b>O-127-120</b>	Who will be the Potential Consumers of K-culture? Function of Social Media Usage	QUAN GAO
<b>O-127-121</b>	Does Energy Efficiency Label Promote Market Competition? The Evidence from Taiwan	Dr. Jin-Long Liu
<b>O-127-123</b>	Peace Education for World: Exploring the Plurality Dialogue Concepts of Abraham Religion on Multiculturalism Responses	Kamarudin Zaelani
<b>O-127-124</b>	Tablet as a Training Material: Contribution of Content Diversity to Education Rate	Semih Delil
<b>O-127-125</b>	Turkish Films as A Socio-Realistic Reflection of Social Change in Turkey	Cicek Coskun
<b>O-127-128</b>	Usability Evaluation of the Operational Interface of the NARERO Learning System	Yen-Yu Kang,
<b>OKS-5127-107</b>	User Emotion Prediction for Recommender Systems	Kyoung-jae Kim

**Lunch Break (12:30 pm – 01:30 pm)**

**DAY 01 Thursday (December 28, 2017)**

**Session II (1:30 pm – 3:30 pm)**

**Venue: Room 1**

**Session Chair: Mr. Leon Yap**

**Track A: Business, Economics, Social Sciences and Humanities**

<b>OKS-5127-103</b>	Avenues of Foreign Direct Investment in Indian Education sector	Dr Roli Pradhan
<b>OKS-5127-104</b>	The English Language Program in Osaka's public Elementary and Junior High Schools- a study of CNETs/ALTs' perspectives	Hallen Joy Sumingwa
<b>O-127-130</b>	Child Friendly Family Education in Indonesian – Javanese Traditional House Construction	Nur Said
<b>O-127-130A</b>	Child Friendly Family Education in Indonesian – Javanese Traditional House Construction	Farida Ulyani
<b>O-127-135</b>	Perceptions on the Money Creation; Role of Central Bank and Private Commercial Banks	Md Shamim Hossain

**Track B: Engineering, Technology & Applied Sciences**

<b>OKE-5127-101</b>	Monte Carlo Simulation of a Biological Control of Mealybug in a Cassava Field by Green Lacewings with Seasonal Effect	Chontita Rattanakul
<b>IRETCAS-127-CEAS109</b>	Protection Method and Numerical Model Analysis for Improvement SPD Performance	Kwang-Yeop Jang
<b>IRETCAS-127-CEAS111</b>	Determine Flight Pattern For Reducing Power Consumption of Multi-Rotor in Point to Point Path	Sunho Jee
<b>IRETCAS-127-CEAS113</b>	A Method of Correlation Analysis of Brain Signals by Muscle Activation	Buil Jeon

**Tea Break 3: 30 pm to 3:45 pm**

**(Closing Ceremony)**

## List of Conference Attendees

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

<b>Sr. No</b>	<b>Official ID</b>	<b>Name</b>	<b>Affiliation Details</b>
1.	<b>OKM-5127-101A</b>	Sung-Han Kim	Asan Medical Center University of Ulsan College of Medicine, Korea
2.	<b>OKM-5127-103A</b>	Kang Yun Mi	Chung-Ang University, Korea
3.	<b>OKM-5127-104A</b>	Cho Sung Ho	Chung-Ang University, Korea
4.	<b>IRETCAS-127-CEAS107A</b>	Woo Hyun	Seoul Asan Medical Center South Korea

## **DAY 02 Friday (December 29, 2017)**

### **City Tour and Shopping Day**

All respective guests are free to conduct their own sightseeing and tour. The second day of the event is reserved for this memorable purpose.

**Track A: Business, Economics, Social Sciences and  
Humanities**

# Psycho Geography as Seen in Patrick White's A Fringe of Leaves

Rakhi Sameer\*

**Abstract** The purpose of this paper is to explore the psycho-geographic impact on the psyche of the protagonist Ellen, in Patrick White's A Fringe of Leaves. This would be an exploration of the psychological processes that are affected by geographical displacement. This paper is a study of the connection between Ellen and her immediate environment. Place plays a Significant role in shaping the psyche of a person. Displacement has varied psychological implications on any individuals mind and personality. There is a place identity, that plays a role in an individual's sense of self. And this place identity has a major psychological impact, which is threatened by displacement. The dominant cultural identity that is very much English, in Ellen, even though she has moved to Sydney. England is still considered home. Her true home will always be England. Australia represents the dark self within ourselves and also in our cultures. The protagonist, has to let go her protection of her civilisation and she acts out "the darker myths of place"(p.111). And this understanding of the land and its people leads her to fully know herself. This realisation enables her to a life in society, her community. She learns to appreciate this civilisation, but has to go through immense psychological destruction.

**Keywords:** Psycho Geography, Fringe

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# Awareness of Bitlis Historical Cultural Assets: The Example of Bitlis Eren University Students

Hale Telli<sup>1\*</sup>, Göknel Bilek<sup>2</sup>, Barış Aydoğan<sup>3</sup>

**Abstract** Bitlis, a city located in the Eastern Anatolian Region of Turkey and on the shores of Van Lake, has rich historical cultural assets. The oldest civilisation that lived in the city is Urartians. After the Urartians' civilisation, Assyrian, Persians, Hellenes, Romans, Byzantines, Armenian, Seljuks and Ottomans lived in the city respectively. Those civilizations left behind so many cultural heritage. Thanks to those civilisations, Bitlis has rich cultural assets which are tangible and intangible. However, the city can not be regarded as a developed city in terms of industry, culture and tourism facilities. The Bitlis Eren University was founded in 2007. One of the main reason for this study is to make a contribution to the works done for the development of the city and university with this interdisciplinary research. In this study, it is aimed to determine how on earth the students studying undergraduate and the associate degree at Bitlis Eren University are aware of the concrete historical cultural assets of Bitlis during their education at the University. The data collection process was carried out throughout the questions directed to the students with demographic data form. Factor analysis and descriptive statistics are used to analyse the collected data. In total, a thousand students answered survey questions. The surveys are interpreted by an art historian, a statistician and a sociologist. Thus, by investigating how demographic information affects the knowledge of students about cultural assets and by determining which cultural assets they know or do not know and evaluating the results, new projects for the future will be produced.

**Keywords:** Bitlis, Historical City, Cultural Assets, Survey, Factor Analysis

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# Infinitely Repeated Two Dimension Effort Rent Seeking Contests

Dr. Teng, Jimmy \*

**Abstract** Purpose: This paper studies a two dimension effort infinitely repeated rent seeking contest game where the contestants are rent seekers and producers at the same time. Introduction: The contestants engage in rent seeking contest for resources. A share of the resources is used for production and a portion of the production output is used for rent seeking. The current rent seeking efforts of the contestants decide the size of resources that they have in next period to for production, consumption and rent seeking. Methodology: The model uses a two-player ratio form of Tullock-Hirshleifer conflict function. The paper analyzes how differences in production efficiency, rent seeking cost and time discount factor affect the invariant steady state equilibrium of repeated contests. Results: The model finds that rent seeking effort peaks when contestants are equal in rent seeking effort. Furthermore, an increase in the economies of scale in rent seeking results in greater (smaller) rent seeking efforts and production when contestants are about equal (very unequal) in their rent seeking efforts. Conclusions: As applications, the paper studies how rent seeking contest affects the productive and rent seeking behavior of corporate workers, firms engaging in research race, political parties contesting elections, firms advertising for greater market share and, states struggling for greater power and share of world resources.

**Keywords:** Repeated Games, Rent Seeking Contest, Economies of Scale, complements, Discount Factor

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# Who will be the Potential Consumers of K-Culture? Function of Social Media Usage

Quan Gao<sup>1\*</sup>, Hye Eun Lee<sup>2</sup>

**Abstract** In the era of Korean wave 4.0, the diffusion of K-Culture products is facing changes especially in the terms channels. Social media are playing an increasingly important part in the dispersion of Korean wave. Thus, it is essential to investigate how social media usage influences Korean media consumption and then affects the future intention to consume K-Culture products. This study found that the relational path of social media usage to Korean media consumption and then, to the future intention to consume K-Culture products did not exist; instead the path of social media usage to Korea-related knowledge and then, to the future intention to consume K-Culture products occurred. Other implications and limitations are discussed.

**Keywords:** Korean Wave, K-Culture Products, Social Media

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# Does Energy Efficiency Label Promote Market Competition? The Evidence from Taiwan

Dr. Jin-Long Liu<sup>1\*</sup>, Ling-Ju Lin<sup>2</sup>

## Abstract Purpose:

The purpose of this study is to examine whether the program of energy efficiency labelling would increase the market competition. Introduction: Global warning and climate change have been the most important issues over the next decades. To mitigate the negative impacts of the greenhouse gas emissions, reducing the demand for energy uses is the top priority for the policy design on the government decision-making process. One of the policy options is attributed to increasing energy efficiency that has been deemed as a “win-win” policy (Allcott and Greenstone, 2012). Energy efficiency labelling and standards programmes are the prevailing method used in many countries, although, the effectiveness of appliance standards has been questioned by researchers (Gillinham, Newwell and Palmer, 2006). In 2010, Taiwan government launched the Compulsory Energy Efficiency Rating Label Program for air conditioners, refrigerators, automobiles, and motorcycles to enhance the energy efficiency. Methodology: By using the administration data collected from the authority, an unique dataset that has never seen in the current studies, we analyze the market competition based on the method of concentration ratio and Herfindahi-Hirschman Index (HHI) for the product of air conditioners on the year between 2010 and 2016 Results: Our results indicate that the original market structure of air conditioners in Taiwan can be classified as a tight oligopoly. However, the concentration ratio and HHI are gradually decreasing and the market is toward to perfect competition after the compulsory energy efficiency rating system. Furthermore, the market structure underlying the efficiency label I and II (more energy saving) is toward to perfect competition on the system, however, the market structure underlying the efficiency label IV and V (less energy saving) is toward to a tight oligopoly. Conclusion: Overall, the energy efficiency rating labelling program in Taiwan shows the effects of promoting the market competition.

**Keywords:** Herfindahi-Hirschman Index, Energy Efficiency Labelling, Air Conditioners

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# **Peace Education for World: Exploring the Plurality Dialogue Concepts of Abraham Religion on Multiculturalism Responses**

Kamarudin Zaelani\*

**Abstract** Caused of the certainty of multicultural realizing, the pluralist attitudes become a necessary for consummate peacekeeping. Creating dialogue and harmony relations between human being with their differences, become our duty in any capacity for harmonious and peace life rebuild. Through of the literature study, based on using religious education study approach, this study should find any conception of peace as well as contained in the holy book of Abraham religions. For all of those become invitation for us to create the world peace. Starting from the classical texts studies, which brought the world spirit of peace and harmony in it's diversity of race, tribe, nation, religion, flow and the economic level, this study attempt to map peace existing references that written in Abraham religion holy books. May this essay will contribute for world peace especially in peace education of religion.

**Keywords:** Abraham Religions, Multicultural, Dialogue Concepts

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# **Tablet as a Training Material: Contribution of Content Diversity to Education Rate**

Semih Delil \*

**Abstract** With the development of technology, the use of tablet computers has increased. These devices are not only for entertainment and business purposes but also for education. When used as training material, these computers made the training comfortably. The choice of the place and the time of the education of the person is becoming a reason for preference every day. Today, classroom learning brings along discussions in terms of effectiveness and loses its effectiveness. Even though the training programs are correct, the efficiency of traditional education can be reduced over time. The purpose of working in this light of information; the educational process of tablet computers as educational material. These devices, which are in visual, auditory and physical communication with the user, also enable an educational model determined by the student at the place and time. Working in the same context; with well-designed educational software of tablets provide targets on the effects on the educational process of the students.

**Keywords:** Mobile Education, Education, Tablet, Computer

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# Turkish Films as A Socio-Realistic Reflection of Social Change in Turkey

Cicek Coskun \*

**Abstract** As one of the most important inventions of the 20th century, cinema is a powerful tool for representing life and affecting people. Turkey's meeting with cinema goes back to 1896 when L'Umière brothers' film "Arrival of a Train at La Ciotat" was screened in Galatasaray, İstanbul. The first Turkish film is "Ayos Stefanos'taki Rus Abidesinin Yıkılışı/ Demolition of the Russian Monument at San Stefano" by Fuat Uzkınay. Many films have been produced in Turkey starting from this date. On the other hand, starting from 1950, Turkey lived a great social change. Migration started from rural areas to urban areas. The rural and urban structure of the country changed. Cinema films witness to socio-economic changes that take place in the country in this process in a manner by representing this change. Especially socio-realistic films have an important place in this representation. In this study, reflection types of real life of cinema films which were shot in Turkey between 1950 and 1985 and which subjects the socio-economic change that took place in the country during this period will be examined. With this aim, selected films will be examined. First, a brief history of Turkish cinema will be reviewed. Second, social change in Turkey between 1950 and 1985 will be examined. Finally, these films' representation of reality and their position in this reality will be discussed.

**Keywords:** Turkish Cinema, Migration, Social Change, Representation

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# Usability Evaluation of the Operational Interface of the NARERO Learning System

Yen-Yu Kang<sup>1\*</sup>, Hsin Pei Lee<sup>2</sup>, Takamitsu Tanakab<sup>3</sup>, Mitsuhiro Setoyamac<sup>4</sup>,  
Yukari Chibac<sup>5</sup>, Suleeporn Kamchompo<sup>6</sup>, Wei Wen Wangb<sup>7</sup>

**Abstract** This study explored and analyzed the usability of the operational interface of the NARERO learning system. The blind spots in the usage of the NARERO learning system were used to analyze user obstacles and to provide recommendations. In this study, the people, events, and objects were collected and analyzed through observation methods, literature collection methods, and user evaluation methods in order to summarize and organize the problems of the NARERO learning system. Furthermore, a Likert five-point scale was used to measure and analyze user evaluations and learning performance, and an objective experimental test was used to assess user satisfaction. Subjects in this study were all first-time users of the NARERO learning system. In the experimental process, each user was recorded for subsequent user evaluation. These records were of two male and two female first-time users. Subsequently, the two-part objective experiment was conducted, in which five experts and 40 high school users evaluated the system interface respectively. Ultimately, system functions were conducted to assist in evaluating learning performance. In order to ensure precision in the experiment, the experiment was conducted on the subjects in the same space and on the same machine. The study explored (1) evaluation of expert satisfaction toward system components and (2) evaluation of user satisfaction toward system components.

**Keywords:** NARERO, Usability Evaluation, Interface Design, Experiment Design

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# Child Friendly Family Education in Indonesian – Javanese Traditional House Construction

Nur Said<sup>1\*</sup>, Farida Ulyani<sup>2</sup>, Mutohhar<sup>3</sup>

**Abstract** The best cultural form space is home, especially the traditional houses. They have a distinctive cultural advantage. This article discusses the uniqueness of Javanese traditional house structures and their realization in forming a culture pattern in child-friendly family education. We used proxemics approach that is how people unconsciously create micro-distance room structure between people in performing daily transaction, room organization in residential and buildings and eventually urban planning. We concluded that Kudus-Javanese Traditional House Construction contains symbolic system which accommodates child parental pattern in family. The values which are relevant with child character education for Indonesian family are: (1) emphasizing the importance of Islamic awareness as well as symbolic meaning in the five trap steps of the five Islam pillars reflection; (2) maintaining the importance of water normality and hygiene as well as in pakiwan (bathroom); (3) completing the residential with certain plants which have symbols and functions for human health; (4) harmonizing the environment in the house especially for girl parenting pattern who gets more special attention considered as a prospective mother which is as the first college instruction in family; and (5) emphasizing the modeling by enacting house as a process of character building for children.

**Keywords:** Child Parental Relation, Family Education, Javanese Traditional House

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# Perceptions on the Money Creation; Role of Central Bank and Private Commercial Banks

Md Shamim Hossain<sup>1\*</sup>, Ahmed Razman Bin Abdul Latiff<sup>2</sup>, Mohammad Noor Hisham Bin Osman<sup>3</sup>

**Abstract** This study aims to explore the perceptions of stakeholders on role of Central bank and private commercial banks for money creation practices. Phenomenological approach has been employed to explore the perceptions of stakeholder through their experience-sharing. A non-probability convenience sampling method along with the semi-structured interview approach has been used to collect the data from seven individuals from different stakeholders group. The inductive thematic approach has been adopted to analyse the data. This study found that excess supply of money by private commercial banks's lending activity made the inflation. Inflation causes the currency devaluation and it is the major indicator for any country to admit the commercial banks's money creation. On the contrary, it was argued that commercial banks can exercise money creation within the limit or threshold set by the central bank because as long as central bank has control over money creation, it cannot be a threat for the economy. However, this study may help the chief regulatory body to accelerate the controlling mechanism for the commercial banks's money lending activity. Finally, in view of the scarcity of literature on this research matter, this research can work as the essential study for the future research. Nevertheless, future study can be carried to explore the perceptions of the key regulator (e.g. Central bank) on this research issue.

**Keywords:** Stakeholders's Perceptions, Money lending, Money Creation Accounting Treatment

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# Avenues of Foreign Direct Investment in Indian Education Sector

Dr Roli Pradhan\*

**Abstract** Globalisation has effected the education sector world over. India known at the nation of youth has almost 25% of its population below the age of 25 years. This large pool will drive huge demand for higher education. Enrolled students in India are approximately 14.6 million into 550 universities and 31000 colleges. Although annual enrolments in higher education have grown steadily over the last decade but the GER (Gross Enrolment Ratio) of 15 percent is way below the global average of 26%. The Indian government has set a target of achieving a Gross Enrolment Ratio of 30% by 2020 which will give tremendous boost to higher education in all sectors. The future India needs to open 1000 more universities along with 50000 more colleges to the 50 million college age youth. There are maximum chances that the government would not be able to suffice this need all by itself it will have to depend either on the private sector or will have to encourage FDI to upgrade and create infrastructure of world class standard for higher education. Union Cabinet after several years of deliberations had unanimously approved a Bill that would allow foreign education providers to set up campuses in India and offer degrees. Such institutes will be granted deemed university status under Section 3 of the Universities Grants Commission (UGC) Act, 1956. The Foreign Educational Institutions (Regulation of Entry and Operations, Maintenance of Quality and Prevention of Commercialization) bill will allow foreign universities to invest at least 51 per cent of the total capital expenditure needed to establish the institute in India.

This paper would highlight the several entry options available for FDI in higher education in various disciplines. It will also mention the prospects in form of collaborative tie ups with existing Indian education providers.

**Keywords:** FDI, Higher Education, Universities, Gross Enrolment Ratio

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# The English Language Program in Osaka's public Elementary and Junior High Schools- a study of CNETs/ALTs' Perspectives

Hallen Joy Sumingwa\*

**Abstract** This case study is done mainly to be able to get a clear picture of the MEXT's (Ministry of Education Culture, Sports, Science and Technology-Japan) English language program in the elementary and junior high schools in Osaka, Japan; its features and activities, the challenges and strengths of its implementation and sensible recommendations from the perspective of City Native English Speakers (CNETs), a terminology for Assistant Language Teachers (ALTs) directly hired by the Board of Education Osaka to work as ALTs in Osaka. At present, Japan has the lowest Japanese TOEFL score in Asia despite all the efforts to provide English education through the current English programs in the public schools. Japanese English education started way back in the Meiji period (1800s) when Japan opened its doors to foreign countries after 250 years of isolation. Most information during those times were available through books and documents thus it lead to the start of method of direct translation of as a means of learning the English language. This heavy reliance on grammar and translation led to a system of learning focused heavily on grammar and reading which still has traces up to these present times. This study wanted to look at how the ALTs or CNETs perceive the English program that they were hired in, what they think are the difficulties and strengths of the program. The participants of this case study are the CNETs/ALTs working in Osaka and a survey was done along with interviews for its methodology.

**Keywords:** ALT, CNET, English Language Program, Osaka, Communicative Language Teaching, Grammar Translation Method

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# User Emotion Prediction for Recommender Systems

Kyoung-Jae Kim \*

**Abstract** The goal of this study is to develop emotion prediction module to implement emotional computing in recommendation system field. Specifically, we develop an algorithm that classifies the user's emotional state in the facial expression of the user into several categories based on previous research and predicts the user's emotional state based on the categories. To this end, we classify emotional states of users in facial expressions of users by using six emotional system models and Valence-Arousal models proposed in previous studies. Then, we develop a prediction model that can predict where the new user's facial expression belongs to the emotional state classification of the already classified user. In this study, we will classify the user's emotional state by using it and then develop the emotional state prediction model using the classification result.

**Keywords:** Emotion Prediction, Recommender Systems, Valence-Arousal Model, Business Analytics

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**Track B: Engineering and Technology, Computer,  
Basic and Applied Sciences**

# Monte Carlo Simulation of a Biological Control of Mealybug in a Cassava Field by Green Lacewings with Seasonal Effect

Chontita Rattanakul\*

**Abstract** Mealybug is considered as a major insect pest of cassava. To control the spread of mealybugs in a cassava field, green lacewing which is one of biological control agent will be released in the field. In Thailand, the severity of the spread of mealybugs in a cassava field is highest during the summer season and lowest during the rainy season. In this work, Monte Carlo simulation technique and cellular automata will be utilized to investigate the effect of Thailand's season on the spread of mealybugs in a cassava field when green lacewings are used as a biological control agent.

**Keywords:** Mealybug, Green Lacewing, Monte Carlo Simulation, Seasonal Effect

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# Protection Method and Numerical Model Analysis for Improvement SPD Performance

Kyung-Hoon Jang<sup>1</sup>, Kwang-Yeop Jang<sup>2</sup>, Sangwon Seo<sup>3</sup>, Donjin Kim<sup>4</sup>

**Abstract** This paper deals with experiment and simulation analysis for improvement of SPD (Surge Protective Device) performance using two parallel protection method, besides numerical simulation model analysis method was investigated for evaluating the SPD performance under standard lightning impulse current (8/20 us) in IEC 61643-1. As a result, it is found that the parallel circuit method is effective protection method for stable system operation in terms of malfunction and destruction of surge protective devices from direct or indirect surge, besides, results revealed that when the lightning surge was an inrush to the internal circuits of surge protective devices, the high electromagnetic field of protection line L1 due to injection lightning surge current does not affect another protective line L2 under 30 kA. On the other hand, both protection line L1 and L2 as parallel type are stably operated under 10 kA and 20 kA lightning current levels. In simulation results, the numerical results were found to be in good agreement with the experimental results in terms of breakdown point of protection line L1 under 30 kA. This accomplishment will be useful in test and evaluation of surge protective device performance under lightning impulse current.

**Keywords:** Numerical Analysis, Para, Lightning impulse, Surge Protective Device (SPD), Surge Protection, Magnetic Field, Flux Density

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# Determine Flight Pattern for Reducing Power Consumption of Multi-Rotor in Point to Point Path

Sunho Jee<sup>1</sup>, Hyunchan Cho<sup>\*2</sup>, Jongwon Kim<sup>3</sup>

**Abstract** The multi-rotor type UAV(unmanned aerial vehicle) gain favor in various fields because of low cost, compact size, working for people in dangerous environment. Especially, it was announced as a result of successful logistics delivery experiment using drone in FedEx, DHL, Amazon and it showed its possibility by commercial use. However, the type of multi-rotor UAV has limitations that the flight time depends entirely on the power of battery, it acts as a limiting factor in a commercial use. To address this issue, we attempt to find the flight pattern that can flying farther than forward flight without altitude change in condition of same energy consumption using gravity and attitude change. In this paper, the comparison of energy consumption was performed in two PTP path, forward flight without altitude change and forward flight with altitude change, by computer simulation and it shows the increasing of flight distances when the UAV fly with altitude change from high altitude to low altitude.

**Keywords:** Altitude Control, Drone Delivery, Energy Consumption,

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# A Method of Correlation Analysis of Brain Signals by Muscle Activation

Buil Jeon<sup>1</sup> , HyunChan Cho

**Abstract** The human's body communicates with another parts of body through the interconnection of several biological signals flow. Brain signals send signals to act for information about human will, intention, math ability, and thinking ability. Recently, many studies have been carried out to grasp human intentions through these brain signals. By inserting a IC chip in the brain of a person[1], the type of the signal can be determined through the change with the measured potential voltage, or the non-invasive method can be used to measure the electroencephalogram. In this study, we use the noninvasive method to analyze an EEG with the correlation of EMG signals, which are extracted from surface of brain and muscle activity. The brain signal transmits a specific signal through the nervous system as the muscle's movement. In response to the movement of the muscles, the biceps and upper triceps muscles contract and relax and output the EMG signal corresponding to the movement. The amount of signals that are constantly exchanged in response to brain movements and muscle movements is enormous. The purpose of this study is to find meaningful signals between brain and muscle in extracting and processing vast amounts of data, and to interpret the transmitted signals to provide a basis for action. Therefore we present a signal extraction method and a method for acquiring data for research. Therefore, this paper presents a signal extraction method for research and a method to acquire data.

**Keywords:** EMG Signal, EEG Signal, Correlation, Synchronous Signal

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