Conference Program
June 27-29, 2018
Okinawa, Japan

ISCEAS
International Scientific Conference on Engineering and Applied Sciences

ISESS
International Symposium on Education and Social Sciences

BREFM
International Conference on Business, Economics, Finance and Management
ISCEAS
International Scientific Conference on Engineering and Applied Sciences

ISESS
International Symposium on Education and Social Sciences
ISBN 978-986-5654-45-0

BREFM
International Conference on Business, Economics, Finance and Management
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Welcome Message

Local Host

Dr. Hiroshi Uechi

Faculty of Commerce
Osaka Gakuin University

Dear delegates,

It is my great pleasure to welcome you to the joint conference of International Scientific Conference on Engineering and Applied Sciences, International Symposium on Education and Social Sciences and International Conference on Business, Economics, Finance and Management in Japan, which promotes exchanges of information, communications and collaborations among researchers worldwide. The 21st century is the age of atomic and molecular sciences, and the age of exploration to Mars and possibly to other planets using spacecraft technology. We gradually come to understand the earth as the unique spacecraft in the universe, and we need collaborations not only from scientists but also people with all expertise in order to resolve problems and sustain our societies and ecological systems, energy resources, etc. The international conferences such as Higher Education Forum would help mutual understandings and play more important and valuable roles in due course. Above all, we would like to welcome all of you to the joint conference of ISCEAS, ISESS and BREFM and also hope that every participant will enjoy cultural explorations in Japan.

Sincerely,
Hiroshi Uechi
General Information for Participants

- **Registration**
  The registration desk will be situated on the 1st Floor in Building B at Okinawa Convention Center during the following time:
  - 15:00-17:00 Wednesday, June 27, 2018
  - 08:15-16:00 Thursday, June 28, 2018
  - 08:15-14:00 Friday, June 29, 2018

- **A Polite Request to All Participants**
  Participants are requested to arrive in a timely fashion for all addresses. Presenters are reminded that the time slots should be divided fairly and equally by the number of presentations, and that they should not overrun. The session chair is asked to assume this timekeeping role and to summarize key issues in each topic.

- **Certificate**
  **Certificate of Presentation or Certificate of Attendance**
  A certificate of attendance includes participant’s name and affiliation, certifying the participation in the conference. A certificate of presentation indicates a presenter’s name, affiliation and the paper title that is presented in the scheduled session.

  **Certificate Distribution**
  Oral presenters will receive a certificate of presentation from the session chair after their presentations or at the end of the session. Poster presenters will receive a certificate of presentation from the conference staff at the end of their poster session.

  The certificate of presentation will not be issued, either at or after the conference, to authors whose papers are registered but not presented. Instead, the certificate of attendance will be provided after the conference.
Preparation for Oral Presentations
All presentation rooms are equipped with a screen, an LCD projector, and a laptop computer installed with Microsoft PowerPoint. You will be able to insert your USB flash drive into the computer and double check your file in PowerPoint. We recommend you to bring two copies of the file in case that one fails. You may also connect your own laptop to the provided projector; however please ensure you have the requisite connector.

Preparation for Poster Presentation
Materials Provided by the Conference Organizer:
1. X-frame display & base fabric canvases (60cm×160cm)
2. Adhesive tapes or binder clips

Materials Prepared by the Presenters:
3. Home-made poster(s)
4. Material: not limited, can be posted on the canvases
5. Recommended poster size: 60cm*160cm

| A 60cm*160cm poster illustrates the research findings. | 1. Wider than 60cm (left)  
2. Copy of PowerPoint slides in A4 papers (right) |
# International Committees

## International Committee of Natural Sciences

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## International Committees

### International Committee of Social Sciences

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Conference Venue Information

Okinawa Convention Center
4-3-1 Mashiki, Ginowan City Okinawa 901-2224, Japan
TEL: + 81(0) 98-898-3000

Conference Building B
The conference will be held at Conference Building B in Okinawa Convention Center

The 1st Floor Plan
Registration: Pre-Function Area, 1F
Oral Session: Room B5 and B6, 1F
Poster Session: Room B5, 1F
Tea Break & Networking: Pre-Function Area, 1F
Lunch: Room B1, 2F
Transportation

* From Naha Airport

A. Taxi
It takes approximately 40 minutes to Okinawa Convention Center (14 kilometer) and costs average ¥3,500.
*The taxi rate and the travel time may be different depends on the traffic.

B. Bus
Take route number 26 or 99 at bus station no.3 from Naha airport bus stop to Okinawa Convention Center bus stop.

C. Airport Limousine Bus
1. Purchase your ticket at Naha airport international/ domestic terminal arrival lobby.
2. Take limousine bus to Laguna Garden Hotel bus stop (*Additional note: the limousine liner does not stop at the convention center. Please get off at Laguna Garden Hotel bus stop)
3. From Laguna Garden Hotel bus stop, turn right onto Ginowan By-pass and take the access path to Okinawa Convention Center. (It takes 7-10 minutes.)

* From Naha Bus Terminal Station
A. Bus
Take route number 26, 32, 43 or 55 to Okinawa Convention Center.

* From Asahibashi Station
A. Bus
1. Take the path to the station ticket gate and exit from exit 2.
2. Turn right and take the pedestrian overpass.
3. Take the elevator down and walk straight to Asahibashi Eki Mae bus station.
4. Take Naha airport limousine bus from Asahibashi Eki Mae bus station to Laguna Garden Hotel bus station.
5. From Laguna Garden Hotel bus stop, turn right onto Ginowan By-pass and take the access path to Okinawa Convention Center. (It takes about 7-10 minutes.)

Parking Information
The on-site free vehicle parking of the center is available, however, when the free parking space are fully occupied, please go to the toll parking space close to the convention center.
# Conference Schedule

## Wednesday June 27, 2018

**Building B**

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<th>Time</th>
<th>Schedule</th>
<th>Venue</th>
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<td>Pre-Registration</td>
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## Thursday, June 28, 2018

**Building B**

### Oral Session

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<tr>
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<td>08:15-16:00</td>
<td>Registration</td>
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<td>08:45-10:15</td>
<td>Fundamental and Applied Sciences(1)</td>
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<td>Business &amp; Management(1)/ Finance(1)</td>
<td>Room B6, 1F</td>
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<tr>
<td>10:15-10:30</td>
<td>Tea Break &amp; Networking</td>
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<tr>
<td>10:30-12:00</td>
<td>Social Sciences Keynote Speech (1)</td>
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<td>Dr. Kim Sangho</td>
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<td><em>Topic</em>: Dynamic Adjustment in the Japanese Manufacturing Industry</td>
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<td>Social Sciences Keynote Speech (2)</td>
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<td>Prof. Christiane Prange</td>
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<td><em>Topic</em>: Industry 4.0 and Companies’ Agile Transformation Challenges</td>
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<td><em>Topic</em>: High-Level Development of Real-Time Distributed Applications</td>
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<td>Dr. Kwun Nam Hui</td>
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<td><em>Topic</em>: Hybrid Materials for High-Performance Flexible Supercapacitors</td>
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<tr>
<td>12:00-13:00</td>
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### Thursday, June 28, 2018
### Building B

#### Oral Session

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<td>14:30-14:45</td>
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#### Poster Session

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<td>14:00-14:50</td>
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<td>15:00-15:50</td>
<td><strong>Poster Sessions (2)</strong> &lt;br&gt; Computer and Information Sciences/ Material Science and Engineering/ Mechanical Engineering</td>
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<td>16:00-16:50</td>
<td><strong>Poster Sessions (3)</strong> &lt;br&gt; Education/ Psychology/ Economics/ Communication/ Finance/ Society</td>
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<td>17:00-17:50</td>
<td><strong>Poster Sessions (4)</strong> &lt;br&gt; Biological Engineering/Chemical Engineering/ Civil Engineering/ Environmental Science</td>
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<td>13:00-14:30</td>
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<td>14:45-16:45</td>
<td>Chemical Engineering/ Material Science and Engineering/ Computer and Information Sciences</td>
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Social Sciences Keynote Speech (1)

Room B5, 1F, Building B

10:30-12:00, Thursday, June 28, 2018

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**Topic:**
Dynamic Adjustment in the Japanese Manufacturing Industry

Dr. Kim Sangho
Professor
Ritsumeikan Asia Pacific University

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**Abstract**
The Japanese manufacturing industry endured a dramatic change since postwar era. The manufacturing industry moved away from a huge and energy-intensive to lean and energy-saving industries after oil shocks in the 1970s. The industry introduced automatic production process with massive capital investment to cope with eroding price competitiveness after the Plaza Accord in 1985. It experienced sharp downturn in capital investment to eliminate overcapacity after the burst of the bubble in the early 1990s, and undertook strong investments to utilize IT technology since the 2000s. Considering its dynamic transformation, resource adjustment problem in the Japanese manufacturing industry can be adequately investigated within a dynamic adjustment-cost framework. Under the background, this paper analyzes the dynamic production structure of the Japanese manufacturing industry by applying a dynamic dual approach in which labor and capital are regarded as quasi-fixed inputs. Empirical results of various theoretical and structural tests are provided, along with short- and long-run elasticities.

JEL Classification Codes: C61; D20; J23; L60
Keywords: adjustment costs, dynamic duality, production, Japanese manufacturing
Social Sciences Keynote Speech (2)

Room B5, 1F, Building B

10:30-12:00, Thursday, June 28, 2018

**Topic:**
*Industry 4.0 and Companies' Agile Transformation*

Prof. Christiane Prange

Professor
Tongji University

**Abstract**
The Industry 4.0 movement started in Germany, and many German leading industrial companies have initiated strong initiatives. Industry 4.0 combines production methods with state-of-the-art information and communications technology. Meanwhile, companies from across the world have engaged in digitizing the manufacturing sector, driven by disruptive technologies. With first-hand information from Germany, some of the prototypical models and approaches will be introduced to facilitate benchmarking across companies from different countries.

We look at how companies meet the challenges for transformation that facilitates the implementation of industry 4.0 and the profound impact on value generation. This involves major requirements for business model change as well as changes in the way work is being re-organized and customer interaction. Industry 4.0 makes the value chain more responsive, allowing industrial manufacturers to reach end customers more directly and tailor their business models accordingly. Products, as diverse as aircraft engines and software, are increasingly offered as services, often on a subscription basis.

As World Economic Forum founder Klaus Schwab put it in his recent book *The Fourth Industrial Revolution* (World Economic Forum, 2016), “Contrary to the previous industrial revolutions, this one is evolving at an exponential rather than linear pace.... It is not only changing the ‘what’ and the ‘how’ of doing things, but also ‘who’ we are.”
Building on the lessons learned in pilot studies, we map out in detail the capabilities a company needs in order to achieve its goals, and develop a blueprint for building (or acquiring) those capabilities. Technological enablers, such as a highly functional IT infrastructure with well-designed user interfaces can propel a company’s business processes forward. This further includes strategies for recruiting and developing the right employees and attracting the right companies to work with. The success of a company with Industry 4.0 will depend on the skills and knowledge it can deploy which requires an agile transformation process both on the level of individuals and organizations. The concept of agile has recently been used as a buzzword in conjunction with industry 4.0. It originated from software programming but transcends into different parts of the organization where digitization changes both the speed and the flexibility of manufacturing. On the personal level, agile leadership facilitates and supports restructuring efforts that require a new mindset aligned with a digital culture: all employees will need to think and act as digital natives willing to learn new ways of operating and reinventing their capabilities permanently as Industry 4.0 is not an end in itself, but an ongoing process.
Natural Sciences Keynote Speech (1)

Room B6, 1F, Building B

10:30-12:00, Thursday, June 28, 2018

Topic:
Prebiotic Potential of Okinawan Sweet Potato with Lactobacillus and Bifidobacteria Probiotic Species

Ms. Surely Annie Wallace
Ph.D. candidate
University of Hawaii

Abstract
It is well documented that probiotic bacteria have beneficial effects on human health and digestion. By affecting change to the gut microbiota, probiotics may, for instance, reduce the pH of the gut lumen, or produce anti-inflammatory or anti-microbial metabolites. The study of Okinawan sweet potato as a potential functional food is culturally important. Okinawan sweet potato contains both soluble fiber and anthocyanins, which have known prebiotic qualities; this suggests that Okinawan sweet potato may potentially promote the growth of probiotic bacteria. The focus of this presentation involves the prebiotic potential of Okinawan sweet potato with probiotic bacteria species. Significant growth was observed, for instance, with L. plantarum, L. rhamnosus GG and L. paracasei at 24 and 48 hours of incubation (in vitro) with both Okinawan sweet potato flesh and skin, compared to the enteric control. Specific findings of this study will be discussed in detail.
Natural Sciences Keynote Speech (2)

Room B6, 1F, Building B

10:30-12:00, Thursday, June 28, 2018

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**Topic:**
*High-Level Development of Real-Time Distributed Applications*

Dr. Sergei Gorlatch
Professor
University of Muenster

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**Abstract**

We consider an emerging class of challenging networked multimedia applications called Real-Time Online Interactive Applications (ROIA). ROIA are networked applications connecting a potentially very high number of users who interact with the application and with each other in real time, i.e., a response to a user’s action happens virtually immediately. Typical representatives of ROIA are multiplayer online computer games, advanced simulation-based e-learning and serious gaming. All these applications are characterized by high performance and QoS requirements, such as: short response times to user inputs (about 0.1-1.5 s); frequent state updates (up to 100 Hz); large and frequently changing numbers of users in a single application instance (up to tens of thousands simultaneous users). This talk will address two challenging aspects of future Internet-based ROIA applications: a) using Mobile Cloud Computing for allowing high application performance when a ROIA application is accessed from multiple mobile devices, and b) managing dynamic QoS requirements of ROIA applications by employing the emerging technology of Software-Defined Networking (SDN).
Natural Sciences Keynote Speech (3)

Room B6, 1F, Building B

10:30-12:00, Thursday, June 28, 2018

**Topic:**

*Hybrid Materials for High-Performance Flexible Supercapacitors*

Dr. Kwun Nam Hui

Associate Professor

University of Macau

**Abstract**

Supercapacitors are advantageous for their high power density (1–10 kWkg\(^{-1}\)), fast charge propagation dynamics within seconds, and long cycling life (> 100,000 cycles) compared with batteries. Carbon-based materials are generally used as electrode materials in electrical double-layer capacitors due to their large specific surface area, high electrical conductivity, and low cost. Although high power density and cycling stability have been demonstrated by carbon-based materials, the capacitance and energy density are low because the charges storage mechanism is based on charge separation at the electrode/electrolyte interface. In contrast to electrical double-layer capacitors, pseudocapacitors utilize transition metal oxides/hydroxides materials that store charges via fast and reversible Faradaic reactions at their surface, resulting in higher specific capacitance and energy density but low power density and cycle life. Currently, the biggest obstacle impeding the development of high-performance supercapacitors is the trade-offs between high energy and high power densities considering the origin of different charge storage mechanisms in electric double-layer capacitors and pseudocapacitors.

A rational design of electrode composed of hybrid materials has become an appealing strategy in circumventing the trade-offs between energy and power densities. In this talk, the speaker will present his recent work in the development and application of carbon/metal oxide-based hybrid electrode for high-performance supercapacitors. Then he will describe how to rationally design a hybrid electrode, consisting of carbon/graphene/metal oxide, to achieve desirable porous structure and huge ion-accessible surface area for rapid electronic and ionic pathways for flexible supercapacitor.
Oral Sessions

Fundamental and Applied Sciences (1)

Thursday, June 28, 2018 08:45-10:15 B5

Session Chair: Prof. Hiroshi Uechi

ISCEAS-0110
The Chiral Dirac-Hartree-Fock Approximation in Quantum Hadrodynamics with Vertex Corrections
Hiroshi Uechi | Osaka Gakuin University

ISCEAS-0070
Odor Constituents of Frankincense Used as Medicine and Incense
Yusuke Osuga | Saitama University
Toshio Hasegawa | Saitama University
Takashi Fujihara | Saitama University
Nikunj Harlalka | Nishant Aromas
Hideo Yamada | Yamada-Matsu Co., Ltd

ISCEAS-0072
Diversity in the Aroma Profiles of Thai Green Teas
Hitomi Sato | Saitama University
Toshio Hasegawa | Saitama University
Piyaporn Chieamchaitrakun | Mae Fah Luang University
Takashi Fujihara | Saitama University

ISCEAS-0073
Comparison of Aroma Profiles of Vetiver from Japan, India, and Indonesia
Kana Tanaka | Saitama University
Toshio Hasegawa | Saitama University
Takashi Fujihara | Saitama University
Eisuke Kuraya | Okinawa College
Mardi Santoso | Institut Teknologi Sepuluh Nopember
Hideo Yamada | Yamada-Matsu Co., Ltd.
Chemical Composition and Antioxidant Activity of *Elsholtzia Stachyodes*

Natthaphat Phakapatsapong | *Chiang Mai University*
Aroonchai Saiai | *Chiang Mai University*
Angkhana Inta | *Chiang Mai University*
Pornchai Junta | *Chiang Mai University*
Chanidapha Thiraphatchotiphum | *Chiang Mai University*
Jukreera Panyakaew | *Chiang Mai University*
Sunanta Wangkarn | *Chiang Mai University*
Pitchaya Mungkornasawakul | *Chiang Mai University*
Uncertain About Your Travel Plan? Lock It and Decide Later: Dynamic Pricing with a Fare-Lock Option
Ming Chen | California State University Long Beach

Cash is King? Detection of the Global Market in a Financial Crisis
Chong-Chuo Chang | National Chi Nan University

Leader Sincerity and the Effect on Trustworthiness of a Leader
Yishuo Hung | Southern Taiwan University of Science and Technology

Pay-without-Performance, Institutional Monitoring, and Firm Value
Paul Moon Sub Choi | Ewha Womans University

Stock Market Development in Least Developed Country, But Fast Economic Growth: A Case Study of Lao PDR
Somvixay Chanthavong | Kyoto University
Education (1)

Thursday, June 28, 2018  13:00-14:30  B6

Session Chair: Prof. Hoi Wing Chan

ISESS-0027
Promoting Autonomous, Collaborative English Learning Practices and Fostering Greater Learner Autonomy among Secondary Students in Hong Kong
Hoi Wing Chan | The Hong Kong Polytechnic University

ISESS-0030
Effectiveness of Vocabulary Learning Using Game Based Applications
Mariko Matsubara | Osaka Kyoiku University
Haruyo Yoshida | Osaka Kyoiku University

ISESS-0033
Evaluating Students’ Learning – A Study of Various Assessment Format
Wing Sze Biddy Yiu | The Hong Kong Polytechnic University

ISESS-0066
Difficulties and Solutions on Interpersonal Relations of Early Childhood Teachers
Hae Ik Hwang | Pusan National University
Hye Kyoung Chae | Pusan National University
ISESS-0029
The Influence of Need for Uniqueness and Self-Enhancement on Consumers' Evaluation of Exclusive Price Promotions
Jeong-Wan Doo | Baekseok Culture University

BREFM-0022
Can Basel III Liquidity Risk Measures Explain the Credit Risk of Taiwan Banks?
Chih-Yuan Yang | National Taiwan Normal University
Sheng-Jung Li | Shu-Te University
Chia-Chien Chang | Kaohsiung University of Science and Technology

BREFM-0034
Food Supply Strategies Considering Calorie Intake and Nutrition Balance
Choonsoo Lee | Korea University
Seung-Ryong Yang | Korea University

BREFM-0037
Does Domestic Agricultural Production Strengthen Food Security?
Seung-Ryong Yang | Korea University
Wonyong Kim | National Food Safety Information Service
Taehwa Kim | Korea University

BREFM-0038
Resolving Ambiguity in Stock Information by a Hierarchy Analysis Process under a Fuzzy Environment
Wichai Witayakiattilert | Thammasat University (Rangsit Center)
Education (2)

Thursday, June 28, 2018  16:30-18:00  B6

Session Chair: Prof. Hiroko Kashimoto

ISESS-0036
Implementing Phonics to Undergraduate Students
Hiroko Kashimoto ︱ Osaka Kyoiku University
Haruyo Yoshida ︱ Osaka Kyoiku University

ISESS-0041
Environmental Education for Achieving Sustainable Development Goals: An Analysis of the Intended Primary Curriculum of Bangladesh.
Mohammed Rashel Uddin ︱ Hiroshima University
Kinya Shimizu ︱ Hiroshima University

ISESS-0050
An Understanding of Professors’ Performance on Science-Engineering Classes in the Perspective of the CHAT
JaeYoung Han ︱ Chungbuk National University
Nayoon Song ︱ Seoul National University
Taehee Noh ︱ Seoul National University
Fundamental and Applied Sciences (2)

Friday, June 29, 2018 08:45 -10:15 B5

Session Chair: Prof. Chi-Yang Tsai

ISCEAS-0139
Inventory Control Policies for a Two-Echelon Perishable Inventory System - A Simulation Study
Chi-Yang Tsai | Yuan Ze University
Tung-Wei Hsu | Yuan Ze University

ISCEAS-0093
Cloud Point Extraction and Ultrasonic Acid Digestion for Determination of Lead in Human Hair by Atomic Absorption Spectrophotometry
Jitrapun Soongsong | Chiang Mai University
Sukjit Kungwankunakorn | Chiang Mai University

ISCEAS-0106
The Genetic Variation of the Indigenous Rice Landraces in Western Thailand Based on the Partial CatA Gene
Prin Phunngam | Muban Chombueng Rajabhat University

ISCEAS-0145
Effect of Degumming Factors: Type and Concentration of Alkali Solutions, Time, and Temperature on Silk Fibers
Nichakorn Pathumrangsan | Muban Chombueng Rajabhat University

ISCEAS-0119
A Fuzzy Sets for the Health in the Elderly Within a 3D Virtual Art Gallery
Cheng-Li Liu | Vanung University
Ruei-Lung Lai | Vanung University
Shiaw-Tsyr Uang | Minghsin University of Science & Technology
**Education (3) / Society**

Friday, June 29, 2018 08:45 -10:15  B6

Session Chair: *Prof. Steven Sek-Yum Ngai*

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**ISESS-0011**
Differential Effects of Training Adequacy and Self-Actualization on Work Motivation and Work Engagement of Unemployed Youth
Steven Sek-Yum Ngai | *The Chinese University of Hong Kong*

**ISESS-0034**
Studying and Developing Body of Knowledge, Model, and Mechanism for Enhancement Discipline in Basic Education Level Schools of South Korea
Benj Kitikhun | *NakhonPhanom University*

**ISESS-0042**
Brooke Bach-Tang Phan | *University of California, Los Angeles*

**ISESS-0053**
Voices of Children in Creativity Experience of Upper Primary Students
Karen Hor Kar Lin | *Singapore University of Social Sciences*

**ISESS-0059**
An Analysis of Relations between Evaluation for Happiness of Young Children among Mothers, Fathers, Teachers and Young Child Themselves
Reena Park | *Pusan National University*
Hea-Ik Hwang | *Pusan National University*
Hyun-Jeong Shin | *Pusan National University*
Mechanical Engineering

Friday, June 29, 2018    10:30-12:00    B5

Session Chair: Prof. Hua-Wei Chi

ISCEAS-0090
Rotor Disk Connection Design of a Flywheel Energy Storage System
Hua-Wei Chi    | Da-Yeh University
Chi-Ting Hsieh | Da-Yeh University

ISCEAS-0091
Microwave NDT Imaging for Multiple Cracks in Metal based on Improved Canny Algorithm
Yan-Bin Li    | University of Electronic Science and Technology of China
Ya-Ting Yu    | University of Electronic Science and Technology of China
Cong Wang    | University of Electronic Science and Technology of China

ISCEAS-0127
Improvement Design of Zirconia Dental Implant under Dynamic Loadings
Yung-Chang Cheng    | National Kaohsiung University of Science and Technology
Yung-Chin Fang    | National Kaohsiung University of Science and Technology

ISCEAS-0131
Experimental Research on Effect Factors of Camera Calibration for Computer Vision Measurement
Zhenwei Wang    | University of Electronic Science and Technology of China
Renjie Xu    | University of Electronic Science and Technology of China
Peng Cheng    | University of Electronic Science and Technology of China
Shuangyin Liu    | University of Electronic Science and Technology of China
ISCEAS-0153
Nanoimprint Lithography and Characterization of Hierarchical Micro/Nano Structures for Multi-Functionalities
Na Eun Yeo ︱ Pusan National University
Won Kyoung Cho ︱ Pusan National University
Myung Young Jeong ︱ Pusan National University
Doo-In Kim ︱ Pusan National University
Education (4) / Culture

Friday, June 29, 2018 10:30-12:00  B6

Session Chair: Prof. Natalie Leitao

ISESS-0010
This Tree is Prickly to Climb: Teaching Autonomy and Resilience in the Early Years
Natalie Leitao | Sheridan College

ISESS-0009
Study and Development of Knowledge Bases, Model and Discipline Reinforcement Mechanisms in Basic Education Schools in Vietnam
Sun Thongyot | NakhonPhanom University
Phac Dinh Van | Hatinh University

ISESS-0014
Early Determinants of Adult Learners Academic Performance
Sylvia Chong | Singapore University of Social Sciences
Adam Wong | Singapore University of Social Sciences

ISESS-0017
The Implementation of the New Senior Secondary School Curriculum Reform in Hong Kong: Teachers and School Leaders’ Concerns
Kin-Sang Jacqueline Chan | The Education University of Hong Kong

ISESS-0026
Gentile or Not, “Let the Children Be Fed First”: A Taiwanese Understanding of Mark 7:24-30
Hsueh-Ming Liao | Chang Jung Christian University
ISCEAS-0115
Sub-Carrier Splitting and Combining Technique for Unambiguous BOC Signal Tracking in GNSS Receivers
Eunyoung Cho | Sungkyunkwan University
Keunhong Chae | Sungkyunkwan University
Seokho Yoon | Sungkyunkwan University

ISCEAS-0081
Parameter Analysis on Optimum Servo System of a UAV (Unmanned Aerial Vehicle)
Makishi Nakayama | Osaka Sangyo University

ISCEAS-0121
On Device-to-Device Communication Via Relays for IoT Networks
Yawgeng A. Chau | Yuan Ze University

ISCEAS-0165
Analyzing the Simulation of Damage Inducing Characteristics of Natural Hailstones
Mehmet Eren Uz | Adnan Menderes University
Halil Kirnak | Adnan Menderes University
Talha Bircan | Anatolian School
Yusuf Yaldiz | Adnan Menderes University

ISCEAS-0166
Positioning Algorithm for Feature Matching and Map Building
Jia-Ning Luo | Ming Chuan University
Ming-Hour Yang | Chung Yuan Christian University
Mu-En Wu | National Taipei University of Technology
Raylin Tso | National Chengchi University
Education (5) / Psychology

Friday, June 29, 2018  13:00-14:30  B6

Session Chair: Prof. Khay Boon Tan

ISESS-0037
Using Games in Teaching Economics
Khay Boon Tan | Singapore Institute of Management Global Education

ISESS-0054
Counseling Psychology for Majlis Ta’Lim Congregation in Improving the Ability to Survive in Conditions of Management the Economic Crisis
Elfi Mu’awanah | IAIN Tulungagung

ISESS-0056
Modelling Non-Independent Effect Sizes in Meta-Analysis
Mike W. L. Cheung | National University of Singapore

ISESS-0076
Socioeconomic Inequality in Higher Education: Implications of Taiwan’s Preferential Admissions
Yu-Shien (Bess) Tzean | National Chengchi University
Don-Yun Chen | National Chengchi University

ISESS-0080
Eigo de Programming - MEXT 2020 Reforms: Integrating Programming and English Education
Mary Frances Agnello | Akita International University
Florent Domenach | Akita International University
Naoko Araki | Akita International University
Chemical Engineering / Material Science and Engineering / Computer and Information Sciences

Friday, June 29, 2018 14:45-16:45  B5

Session Chair: Prof. Huibin Yu

ISCEAS-0117
Zn$^{2+}$-Loaded Cellulose Beads Stabilized by Chitosan and Prepared via Freeze-Drying for Removing Human Testosterone in Plasma
Huibin Yu | Huazhong University of Science and Technology
Lei Zhou | Huazhong University of Science and Technology
Shenqi Wang | Huazhong University of Science and Technology

ISCEAS-0133
Characterization and SECM Investigation of Binary Platinum based Electrocatalysts for Oxygen Reduction Reaction
Che-Chi Wu | Feng Chia University
Yu-Ching Weng | Feng Chia University

ISCEAS-0134
SECM Evaluation of Indium Cadmium Sulfur-Based Photocatalysts for Water Splitting
Kuan,Wen Chen | Feng Chia University
Yu,Ching Weng | Feng Chia University

ISCEAS-0158
First-Principles Study of Adsorption of Ag on Ag-In-Yb Quasicrystal Surface
Kazuki Nozawa | Kagoshima University

ISCEAS-0144
Speeding Up of View Factor Derivation Using Graphic Processing Unit
Seigo Sakai | Yokohama National University
Takeru Naito | Yokohama National University
ISCEAS-0146
Method of Reliability Modeling and Prediction for High-Speed Railway Passenger Transport Service System Equipment Based on Fault Data
Weijia Kong | Tsinghua University
Wei Dong | Tsinghua University
Xinya Sun | Tsinghua University
Yindong Ji | Tsinghua University

ISCEAS-0159
Applying Image Segmentation for Detecting Chromatic Aberration
Warawut Kesornsukhon | King Mongkut's Institute of Technology North Bangkok
Porawat Visutsak | King Mongkut's Institute of Technology North Bangkok
San Ratanasanya | King Mongkut's Institute of Technology North Bangkok
Business & Management (3) / Economics (2) / Finance (3)

Friday, June 29, 2018  14:45-16:45  B6

Session Chair: Prof. Mei Choi Chiu

BREFM-0028
Time Consistent Mean-Variance Portfolio under Regime-Switching Cointegration
Mei Choi Chiu | The Education University of Hong Kong
Hoi Ying Wong | The Chinese University of Hong Kong

BREFM-0040
Supply Uncertainty and Its Impact on Vendor-Managed Inventory Strategies in a Supply Chain
Taesu Cheong | Korea University
Seung Ho Yoo | Hanyang University

BREFM-0042
Abenomics and the LDP: A Political Economic Assessment
Joel R. Campbell | Troy University

BREFM-0029
Simulation-Based Value-At-Risk for High-Dimensional Nonlinear Portfolios
Hoi Ying Wong | The Chinese University of Hong Kong
Tony Sit | The Chinese University of Hong Kong
Junyao Chen | The Chinese University of Hong Kong
Poster Sessions (1)

Fundamental and Applied Sciences / Electrical and Electronic Engineering

Thursday, June 28, 2018 14:00-14:50 B5

ISCEAS-0080
Physicochemical and Antioxidant Properties of Bread Prepared with ‘Fuji’ Apple Juice
Young Kyung Kim | Chungbuk National University
Tae-Hoon Lee | Chungbuk National University
Woo-Hyun Park | Chungbuk National University
Jin-Sol Kim | Chungbuk National University
Jeong-Youn Yi | Chungbuk National University
Keum-Il Jang | Chungbuk National University

ISCEAS-0084
Diffuse Reflectometry at 0.8 mm Source-to-Detector Separation for the Determination of Optical Properties of Superficial Turbid Samples
Sheng-Hao Tseng | National Cheng-Kung University

ISCEAS-0086
Quality and Antioxidant Properties of Buckwheat Noodle Added with Apple Pomace Powder
Keum-Il Jang | Chungbuk National University
Jeong-Youn Yi | Chungbuk National University
Young-Kyung Kim | Chungbuk National University
Tae-Hoon Lee | Chungbuk National University
Woo-Hyun Park | Chungbuk National University
Jin-Sol Kim | Chungbuk National University
ISCEAS-0087
Effect of Sodium Reduction for Quality and Storage Properties of Bulgogi for Lunchbox in Korea
Tae-Hoon Lee | Chungbuk National University
Woo-Hyun Park | Chungbuk National University
Jin-Sol Kim | Chungbuk National University
Young-Kyung Kim | Chungbuk National University
Keum-II Jang | Chungbuk National University

ISCEAS-0101
Analytical Method Development of Beta-Penyl Ethyl Amine Derivatives in Health Functional Foods by LC/PDA and LC/MS/MS
Eun Jung Chang | Gyeongin Regional Office of Food and Drug Safety
Eun Jeong Kim | Gyeongin Regional Office of Food and Drug Safety
Moo Somg Lim | Gyeongin Regional Office of Food and Drug Safety
Hye Soon Kang | Gyeongin Regional Office of Food and Drug Safety
KiMi No | Gyeongin Regional Office of Food and Drug Safety
Yukyung Lee | Gyeongin Regional Office of Food and Drug Safety
Ji-Young Yang | Gyeongin Regional Office of Food and Drug Safety
Sunghee Park | Gyeongin Regional Office of Food and Drug Safety
Hyung Il Kim | Gyeongin Regional Office of Food and Drug Safety

ISCEAS-0107
Effect of Sodium Reduction for Quality and Storage Properties of Hamburger Patty with Salt Replacement
Jin-Sol Kim | Chungbuk National University
Tae-Hoon Lee | Chungbuk National University
Woo-Hyun Park | Chungbuk National University
Young-Kyung Kim | Chungbuk National University
Keum-II Jang | Chungbuk National University
ISCEAS-0108
Quality and Storage Properties of Cutlet Sauce Prepared with Salt Replacement after Reducing Sodium Content
Woo-Hyun Park | Chungbuk National University
Tae-Hoon Lee | Chungbuk National University
Jin-Sol Kim | Chungbuk National University
Young-Kyung Kim | Chungbuk National University
Keum-II Jang | Chungbuk National University

ISCEAS-0137
Sensory Evaluation and Storage Stability of Lactic Acid Probiotic Sweet Potato Beverage
Michael Wambua | University of Tsukuba
Mito Kokawa | University of Tsukuba
Yutaka Kitamura | University of Tsukuba

ISCEAS-0138
A Comparison of Intensity-Modulated SPR Biosensors
Chia-Pei Lin | Chinese Culture University
Li-Chen Su | Chinese Culture University

ISCEAS-0141
Preparation of Tungsten Oxide from Scheelite Ore from Samoeng District, Chiang Mai Province
Methiyanun Suepkham | Chiang Mai University
Sukjit Kungwankunakorn | Chiang Mai University

ISCEAS-0067
Fuzzy Guaranteed Cost Control of Unmanned Surface Vehicles
Gyeoung-Hak Lee | Hanbat National University
Do Wan Kim | Hanbat National University

ISCEAS-0074
Design and Implementation of a Novel High Performance Hybrid and Frequency Tunable Ionizer
Sheng-Yuan Ou | National Taipei University of Technology
Chen Han Li | National Taipei University of Technology
Ke Cheng Chen | National Taipei University of Technology
ISCEAS-0128
Effects and Analysis of Inserted Resonator to Improve Efficiency Including Rectifying Circuit of Superconducting Wireless Power Transfer System for Electric Vehicle
Yoon Do Chung | Suwon Science College
Chang Young Lee | Korea Railroad Institute
Eun Young Park | Korea Christian University

ISCEAS-0136
Identifying the Illuminant of Images with Gamut Surface Gradient Method
Yu-Che Wen | Yuan Ze University
Senfar Wen | Yuan Ze University
Yu-Hsiung Lin | Chung Hua University

ISCEAS-0155
Development for Bypass Type Junction-Box to Improve DC Power System in Renewable Energy
Jong-Man Kim | Jeonnam State University
Seokhoon Hong | TEF Company Limited
Beobsung Song | TEF Company Limited

ISCEAS-0162
Low Phase Noise Dual-Band Oscillator Employing Switchable Bandpass Filter
Tzung-Han Du | National Chung-Shan Institute of Science and Technology
Wen-Hua Tu | National Central University
Poster Sessions (2)

Computer and Information Sciences / Material Science and Engineering / Mechanical Engineering

Thursday, June 28, 2018 15:00-15:50  B5

ISCEAS-0071
Spontaneous Multi-Modal Dimensional Emotion Analysis with Multi-Task Learning and Hierarchical-Fusion Regression Model
Bo Sun | Beijing Normal University
Siming Cao | Beijing Normal University
Penghao Rao | Beijing Normal University
Bojie Rong | Beijing Normal University
Jun He | Beijing Normal University
Lejun Yu | Beijing Normal University

ISCEAS-0085
A Coaxial Mechanical Calibration Kit S-Parameters Model Based on ANN
Penghao Rao | Beijing Normal University
Ke Liu | National Institute of Metrology
Bin Yang | Ministry of science and technology
Jun He | Beijing Normal University
Bo Sun | Beijing Normal University

ISCEAS-0105
Sniff and Hack Vehicle CAN Bus Data
Narn-Yih Lee | Southern Taiwan University of Science and Technology
Bo-Ren Chen | Southern Taiwan University of Science and Technology
ISCEAS-0112
**Performance Evaluation of M-Ary SS/HC-OFDM System with Short Spread Codes in Ultrasound Transmission**
Hiroki Michiwaki | *Shinshu University*
Fumihito Sasamori | *Shinshu University*
Osamu Takyu | *Shinshu University*
Shiro Handa | *Shinshu University*

ISCEAS-0113
**Performance Evaluation of M-Ary SS/HC-OFDM System with Short Spread Codes in Stereo FM Transmission**
Sunao Narita | *Shinshu University*
Fumihito Sasamori | *Shinshu University*
Osamu Takyu | *Shinshu University*
Shiro Handa | *Shinshu University*

ISCEAS-0114
**Performance Analysis of Bit Error Rate using Repetition Coded OFDM Systems in Nakagami-m Fading Environment**
Takayuki Ogawa | *Shinshu University*
Fumihito Sasamori | *Shinshu University*
Osamu Takyu | *Shinshu University*
Shiro Handa | *Shinshu University*

ISCEAS-0120
**Construct the AR Technology to Enhance the Occupational Performance for the Intellectual Disability Students**
Jen-Yang Chen | *Ming Chuan University*
Bo-Hong Nien | *Ming Chuan University*
Shih-Yu Huang | *Ming Chuan University*
Chaur-Heh Hsieh | *Ming Chuan University*

ISCEAS-0125
**Proposal of a Card Operation-Based Programming Learning System with the Concept of Game Programming**
Tomoya Iwamoto | *Hiroshima Institute of Technology*
Shimpei Matsumoto | *Hiroshima Institute of Technology*
Tomoko Kashima | *Kindai University*
ISCEAS-0130
Developing a Web-Based Programming Editor for Novice Learner
Masanori Oshita | Hiroshima Institute of Technology
Kohei Morita | Hiroshima Institute of Technology
Shimpei Matsumoto | Hiroshima Institute of Technology

ISCEAS-0135
Construction of a Virtual Campus Experience System with a L-Shaped Stereoscopic Display
Tomoko Tateyama | Hiroshima Institute of Technology
Nobuo Yamaguchi | Ritsumeikan University
Ryoma Fujii | Ritsumeikan University
Seiju Tsujinaga | Ritsumeikan University
Jiaqing Liu | Ritsumeikan University
Yen-Wei Chen | Ritsumeikan University

ISCEAS-0142
A Study on Programming Learning Method to Reduce Non-Essential Cognitive Load
Shoko Morinaga | Hiroshima Institute of Technology
Shimpei Matsumoto | Hiroshima Institute of Technology
Yusuke Hayashi | Hiroshima University
Tsukasa Hirashima | Hiroshima University

ISCEAS-0163
Study on 3kW PV Inverter Construction
Byunggyu Yu | Kongju National University
Geun Bum Koo | Kongju National University
Bong Seok Park | Kongju National University
Bangwon Seo | Kongju National University
Seung-Mook Baek | Kongju National University
Chang-Ho Hyun | Kongju National University

ISCEAS-0051
Free-Standing Colloidal Photonic Crystal Hydrogel Films with Visualized Structural Color using for Alcohol Sensors
Jia-Sian Li | Feng Chia University
Chun-Feng Lai | Feng Chia University
ISCEAS-0103
Fluorescence Sensing of Catecholamine using Up-Conversion Nanoparticles based on Metal Ion-Catechol Interaction
Jong Won Chung | Pukyong National University
Jin Young Park | Pukyong National University
Hyun Kyoung Yang | Pukyong National University

ISCEAS-0151
A Study of Nanoscale Morphology Effects on Electrical Conductivity of BaSnO₃ for Non-Metallic based Conductive Yarn
Yoo Lim Cha | Gachon University
Jong Dae Kim | Hallym University
Young Soo Yoon | Gachon University
Sun Hee Kim | Incheon National University

ISCEAS-0157
Enhanced Structural Stability of Nano-Sized LiAlO₂ Matrix in Molten Carbonate Fuel Cells
Un Ho Lee | Gachon University
Sung Pil Woo | Yonsei University
In Yea Kim | Gachon University
You Na Lee | Gachon University
Dae Yun Kim | Gachon University
Yoo Lim Cha | Gachon University
Young Soo Yoon | Gachon University

ISCEAS-0171
Preparation of Hydroxyapatite/BMP-2-Immobilized Poly-L-Lactic Acid for Orthopedic Applications
Dae Hyeok Yang | The Catholic University of Korea
Chun Ho Kim | Korea Institute of Radiological and Medical Sciences
Jae Kwang Kim | The Catholic University of Korea
Heung Jae Chun | The Catholic University of Korea
ISCEAS-0055
Aerodynamic Simulation of Antiarmor Missiles with Different Middle Wing Numbers
Chun-Chi Li | National Defense University
Yen-Chun Tsai | National Defense University
Chun-Ta Wu | National Defense University

ISCEAS-0140
Secondary Mirror Focus Mechanism Using Piezoelectric Inertia Friction
Dae Gi Hong | Korea Aerospace University
Jai Hyuk Hwang | Korea Aerospace University
Hyung Chul Kim | Korea Aerospace University
Poster Sessions (3)

Education / Psychology / Economics / Communication / Finance / Society

Thursday, June 28, 2018 16:00-16:50  B5

ISESS-0012
Strengthen Scientific Explanation Ability: Nurturing the Pre-Service Teachers to Design Innovative PO+E Teaching Plan and Teaching
Chow-Chin Lu | National Taipei University of Education

ISESS-0013
STEAM Used in Designing and Teaching the “Biology and Environment” Unit in the Elementary School
Chow-Chin Lu | National Taipei University of Education
Fen-Fang Chen | National Taipei University of Education

ISESS-0051
On Mathematical Education of Modeling in Taiwan
Chih-Ru Hsiao | Soochow University

ISESS-0062
Designing a Structured Online Discussion System to Enhance Students' Discussion Quality
Hsiu-Ling Chen | National Taiwan University of Science and Technology
Chiung-Yun Chang | National Taiwan University of Science and Technology

ISESS-0069
The Effects of Physical Self-Concept on Young Children’s Happiness
Eun-Suk Na | Seoil University
ISESS-0073
The Trajectory of the Nursing Students' Core Competencies with Situated Teaching
Yu-Yuan Fang | National of Taipei University Technology
Chin-Ching Li | Mackay Medical College

ISESS-0007
Impact of Symptom and Social Support on Fertility Intention in Reproductive-Age Women with Breast Cancer
Sheng-Miauh Huang | Mackay Medical College
Ling-Ming Tseng | Taipei Veterans General Hospital
Jerry Cheng-Yen Lai | Taitung Mackay Memorial Hospital
Yi-Fang Tsai | Taipei Veterans General Hospital
Pei-Ju Lien | Taipei Veterans General Hospital
Ping-Ho Chen | Taipei Medical University Hospital

ISESS-0021
Exploring the Relation between Physical Activities and Postpartum Depression in Six Months after Giving Birth
Kuei Hui Chu | Ching Kuo Institute of Management and Health
Jiun-Jing Yang | Fooyin University
Chiu-Yen Chen | National Yang-Ming University

ISESS-0028
Incorporating the Inclusive L2 Self into Self-Related Motivations in a Japanese EFL Context
Maya Sugita McEown | Waseda University
Kristopher McEown | Waseda University

BREFM-0044
Research on the Relationship between Corporate Governance Structure and Performance of Listed Companies--A Case Study of Listed Companies in Northwest China
Jinxiang Li | Ningxia University
Huiping Zhang | Ningxia University
ISESS-0071
A Note on the Shapley Value for Multi-Choice Games
Wen-Lin Chiou | Fu-Jen University
Chih-Ru Hsiao | Soochow University

ISESS-0079
A Study on the Communication of Authorial Stance in Chinese Academic Writing
Chia-Ling Hsieh | National Taiwan Normal University

BREFM-0027
A Literature Review of Enterprise Risk Management in Accounting Research Field
Shiho Fujita | Keio University
Keita Iwasawa | Keio University
Eisuke Yoshida | Keio University

BREFM-0035
An International Review of the Effect of Executive Compensation on Corporate Risk-Taking
Minghui Jiang | Harbin Institute of Technology

ISESS-0015
The Effects of Stigma Trajectory on the Child Development in Out-of-Home Care
Ick-Joong Chung | Ewha Womans University

ISESS-0049
Analysis and Comparison of Present Situation of Red Cross Disaster Education in Korea, Japan and USA
Minsoo Kim | Pusan National University
Byunghyun Park | Pusan National University
Byeonggyu Bae | Pusan National University
Jaehyun Kim | Pusan National University
Poster Sessions (4)

Biological Engineering / Chemical Engineering / Civil Engineering / Environmental Science

Thursday, June 28, 2018 17:00-17:50 B5

ISCEAS-0056
The Inhibitory Effect of EGCG on HBV Infection in Vitro and in Vivo
Hsiu-Chen Huang | National Tsing Hua University
Cheng Huang | National Yang-Ming University

ISCEAS-0065
Ampelopsin C Induce Apoptosis in Triple Negative Breast Cancer Cells
Hsiu-Chen Huang | National Tsing Hua University
Cheng Huang | National Yang-Ming University

ISCEAS-0088
Antifungal Activity of Isopalmitic Acid against Indoor Fungi
Honoka Nishimura | The University of Kitakyusyu
Toshinari Koda | Nissan Chemical Industries
Hiroshi Morita | The University of Kitakyusyu

ISCEAS-0089
Establishments of Miticidal and Repellent Bioassays with Dermatophagoides Pteronyssinus
Aki Maruoka | The University of Kitakyusyu
Toshinari Koda | Nissan Chemical Industries Ltd.
Hiroshi Morita | The University of Kitakyusyu

ISCEAS-0092
Isolation of Wine Yeast from Grapes Cultivated in Kitakyushu
Misako Okamoto | The University of Kitakyusyu
Hiroshi Morita | The University of Kitakyusyu
ISCEAS-0122
Antibacterial Effect of Igusa on Corynebacterium Xerosis
Kotomi Hayashi | The University of Kitakyushu
Mariko Era | The University of Kitakyushu
Hiroshi Morita | The University of Kitakyushu

ISCEAS-0126
On the Analysis and Applications of EMG Features in Parkinson’s Disease during Simple Elbow Flexion Movements
Chia-Yen Yang | Ming-Chuan University
Tsorng-Lin Chia | Ming-Chuan University

ISCEAS-0068
Apparent Viscosity of a Suspension of Monodispersed Core-Shell Particles
Xin-Fang Li | National I-Lan University
Shih Hsin Chen | National I-Lan University

ISCEAS-0082
Multicolor Fluorescence of pNIPAM-Based Nanogels Modulated by Dual Stimuli-Responsive FRET Processes for Cell-Imaging
Ho-Joong Kim | Chosun University

ISCEAS-0057
A Novel Method to Estimate Traffic Density using Radar Sensors
Inchul Yang | KICT (Korea Inst. of Civil Eng. & Building Tech.)
Woo Hoon Jeon | KICT (Korea Inst. of Civil Eng. & Building Tech.)

ISCEAS-0063
Structural Performance of Steel Fiber Reinforced Concrete Slabs
Geonho Hong | Hoseo University
Byungmin Chae | Hoseo University

ISCEAS-0075
Mapping and Monitoring Recent Surface Water Extent of Lake Chad using Multiple Time Series of Earth Observations
Sang-IL Lee | Dongguk University
Willibroad G. Buma | Dongguk University
ISCEAS-0147
The Aggregation of Bentonite Temperature-Responsive Polymer as a Flocculant
Ayano Nakamura | Akita University
Kenji Murakami | Akita University

ISCEAS-0154
Monitoring of Atmospheric Aerosols from the Geostationary Satellites
Kwonho Lee | Gangneung-Wonju National University