

Conference Program

December 19-22, 2017

Singapore

IRSET	International Research Symposium on Engineering and Technology
MACE	International Conference on Material and Chemical Engineering
EECS	International Conference on Electrical Engineering and Computer Science
IACSS	International Academic Conference on Social Sciences

IRSET

International Research Symposium on Engineering and Technology

ISBN 978-986-5654-01-6

MACE

International Conference on Material and Chemical Engineering

ISBN 978-986-5654-47-4

EECS

International Conference on Electrical Engineering and Computer Science

ISBN 978-986-88450-3-9

IACSS

International Academic Conference on Social Sciences

ISBN 978-986-90827-4-7

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General Information for Participants

■ **Registration**

The registration desk will be situated on the **2 floor** at **M Hotel Singapore** during the following time:

08:15-16:00, Wednesday, December 20, 2017

08:30-16:00, Thursday, December 21, 2017

■ **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 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


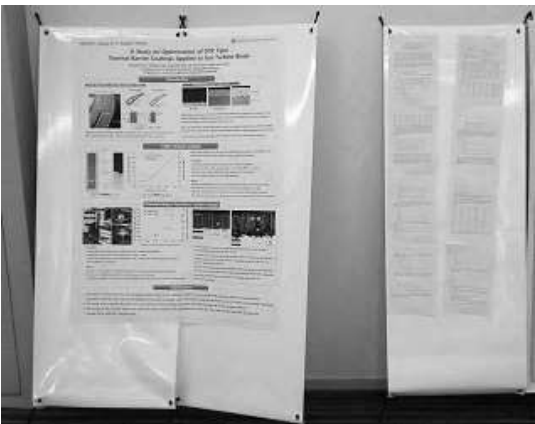
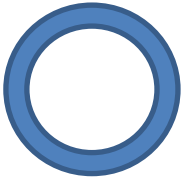

Materials Provided by the Conference Organizer:

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*120cm



	
<p>A 60cm*160cm poster illustrates the research findings.</p>	<ol style="list-style-type: none"> 1. Wider than 60cm (left) 2. Copy of PowerPoint slides in A4 papers (right)
	

International Committees

International Committee of Natural Sciences

Abdelwahab Elghareeb	Cairo University	Egypt
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Ricky Yuk-Kwan Ng	Vocational Training Council, Hong Kong	Hong Kong
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Wei-Cheng(Joseph) Mau	Wichita State University	USA
Wen-Pei Sung	National Chin-Yi University of Technology	Taiwan
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Yong-Ho Kim	Pukyong National University	South Korea
Yuki Yokohama	Kanto Gakuin University	Japan
Zabihollah Rezaee	The University of Memphis	USA
Zhou Xiao	Fudan University	China

Special Thanks to Session Chairs

Terence Tumolva	University of the Philippines Diliman
Luen Tim Percy Lui	The Open University of Hong Kong
Thanh Pham	Monash University
Tian-Bo Deng	Toho University
Ruby Ojha	Shreemati Nathibai Damodar Thackersey Women's University
Sead Spuzic	University of South Australia
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Hairon Salleh	Nanyang Technological University
Sudaporn Khiewngamdee	Mahamakut Buddhist University
Katie Brodhead	Florida A&M University
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Man-ho Heo	Kyungpook National University
Lesiba Teffo	University of South Africa
Soo-Yeon Seo	Korea National University of Transportation

Conference Venue Information

M Hotel Singapore

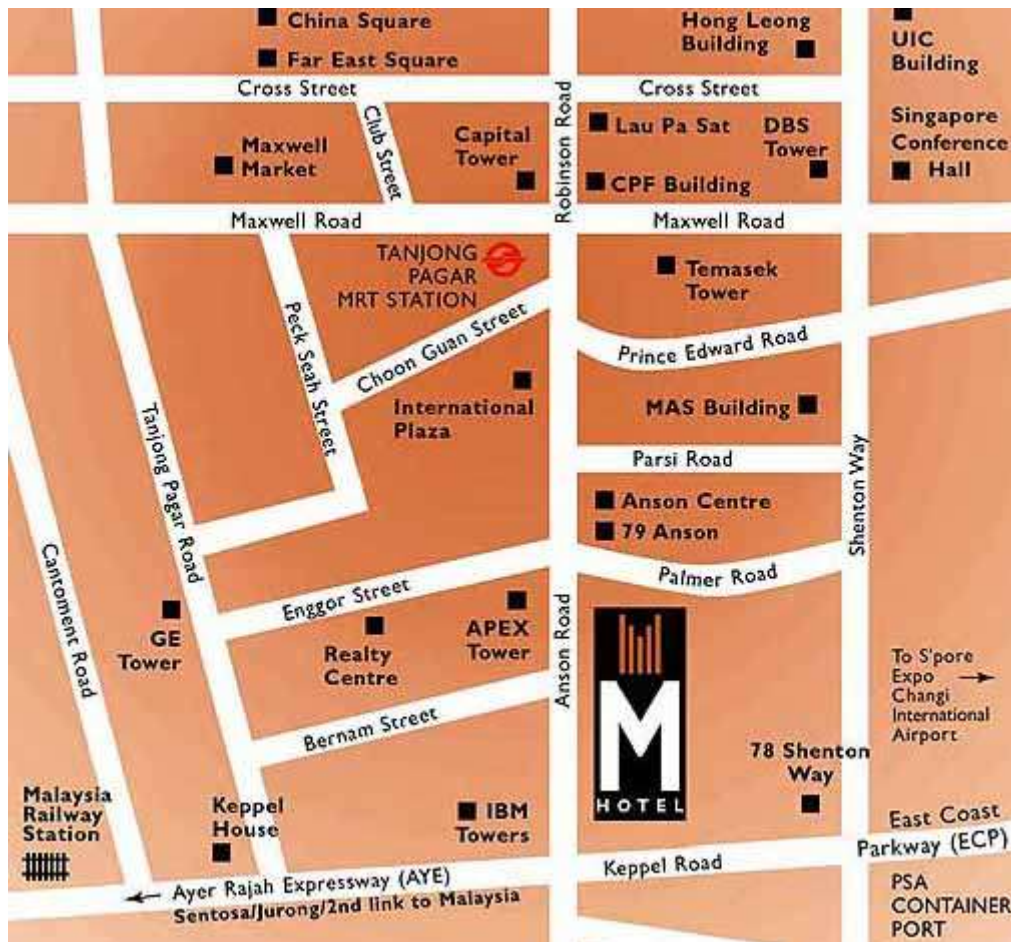
81 Anson Road Singapore 079908

Phone: +65 6224 1133

Mail: Enquiry.MHS@millenniumhotels.com

A unique urban getaway in the heart of Singapore's financial district. Close by, you'll find the Marina Bay Financial Centre, Clarke Quay, and Orchard Road. M Hotel Singapore offers 413 rooms and suites, styled in contemporary chic. Technological features including wireless broadband are available, so you'll always stay connected. Working from the comfort of your hotel is easy. On level 8, we have 40 newly furnished office suites and a business centre. Meanwhile, our spacious ballrooms and 9 meeting rooms provide elegant spaces, adaptable for just any function - from business meetings to grand wedding banquets.

Location



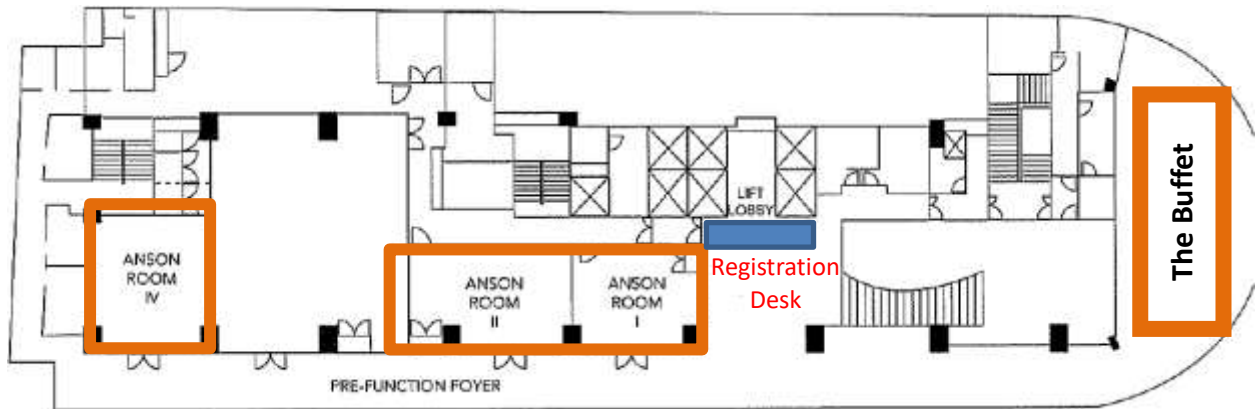
Distance from main attractions

Places	Distance	Drive	Walk
Tanjong Pagar MRT Station	0.3 km	-	5 mins
Marina Bay Financial Centre	1.4 km	3 mins	15 mins
Marina Bay Sands Convention Centre	2.2 km	5 mins	18 mins
Chinatown	2.4 km	5 mins	18 mins
Suntec City	2.6 km	6 mins	-
Clarke Quay	2.8 km	6 mins	-
Raffles Place	3.0 km	6 mins	-
Marina Bay Cruise Centre	3.4 km	7 mins	-
VivoCity, HarbourFront Centre, Singapore Cruise Centre	3.4 km	7 mins	-
Gardens by the Bay	3.6 km	8 mins	-
Orchard Road	5.4 km	12 mins	-
Sentosa Island, Universal Studios Singapore	5.9 km	13 mins	-
Changi International Airport	19.6 km	18 mins	-
Singapore Expo	19.6 km	18 mins	-

Accommodation Recommendation

- Conference venue
- M Hotel Singapore
- 5-10 mins walk distance to Chinatown MRT station
- Chinatown MRT station to M Hotel (conference venue) is around 10 mins by car /20 min by bus or MRT/ 20 mins on foot
- ZEN Rooms New Bridge Road
- Hotel 81 Chinatown
- Porcelain Hotel by JL Asia
- Bliss Hotel Singapore
- The Keong Saik Hotel

M Hotel Singapore Floor Plan (2nd Floor)



Conference Schedule

Tuesday, December 19, 2017

Internal Meeting (Staff Only)

Wednesday, December 20, 2017

Oral Presentation

2F, M Hotel Singapore

Time	Schedule	Venue
08:15-16:00	Registration	Foyer Area,2F
08:45-10:15	Chemical Engineering/Environmental Science/Mechanical Science and Engineering(1)/Fundamental and Applied Sciences(1)	Anson1
	Literature and Linguistics(1)/ Communication	Anson2
	Education(1)	Anson4
10:15-10:30	Tea Break & Networking	Foyer Area,2F
10:30-12:00	Best Paper Award Ceremony	Anson4
	<u>Natural Sciences Keynote Speech</u> Dr. Katie Brodhead Associate Professor Department of Mathematics, Florida A&M University, USA <u><i>Topic: Machine Learning in Computer Science</i></u>	
12:00-13:00	Lunch Time	The Buffet (2F)
13:00-14:30	Computing Science & IT Engineering(1)/ Mechanical Science and Engineering(2)/ Computer Science Applications/ Electrical & Electronic Engineering(1)/ Material Science and Engineering(1)	Anson1
	Economics(1)/ Finance/ Business & Management(1)	Anson2

14:30-14:45	Tea Break & Networking	Foyer Area,2F
Wednesday, December 20, 2017		
Time	Schedule	Venue
14:45-16:15	Electrical & Electronic Engineering(2)/ Computing Science & IT Engineering(2)/ Mechanical Science and Engineering(3)/ Fundamental and Applied Sciences (2)/Information Engineering (1)	Anson1
	Social Studies(1)/ Politics(1)/Law (1)	Anson2
16:15-16:25	Tea Break & Networking	Foyer Area,2F
16:25-17:25	Education(2)	Anson1
	Politics(2)/Social Studies(2)	Anson2

Wednesday, December 20, 2017	
Poster Presentation	
Anson IV, 2F, M Hotel Singapore	
Time	Schedule
13:00-14:00	Poster Sessions (1) Material Science and Engineering/Biomedical Engineering
14:30-15:30	Poster Sessions (2) Chemical Engineering/Electronics & Electrical Engineering/Computing Science & IT Engineering/ Information Engineering
16:00-17:00	Poster Sessions (3) Social Studies/Education/Psychology/Humanities and Culture Studies /Business & Management/Civil Engineering/Computer Science Applications

Thursday, December 21, 2017		
Oral Presentation		
2F, M Hotel Singapore		
Time	Schedule	Venue
08:30-16:00	Registration	Foyer Area,2F
08:45-10:15	Electrical & Electronic Engineering(3)/ Computing Science & IT Engineering(3)	Anson1
	Economics(2)/ Business & Management(2)	Anson2
Thursday, December 21, 2017		
Time	Schedule	Venue
08:45-10:15	Education(3)	Anson4
10:15-10:30	Tea Break & Networking	Foyer Area,2F
10:30-12:00	Material Science and Engineering(2)/Biomedical Engineering	Anson1
	<u>Workshop Session</u> Dr. Tan Khay Boon Head of Programme, Academic Division, SIM Global Education <i>Topic: Private Education in Singapore</i>	Anson4
12:00-13:00	Lunch Time	The Buffet (2F)
13:00-14:30	Computing Science & IT Engineering(4)/ Fundamental and Applied Sciences(3)/ Information Engineering(2)/ Wireless or Mobile Communication & Computing	Anson1
	Humanities and Culture Studies(1)/ Psychology(1)/Social Studies(3)	Anson2
	Education(4)/Humanities and Culture Studies(2)/Law(2)/ Literature and Linguistics(2)/Psychology(2)/ Politics(3)	Anson4
14:30-14:45	Tea Break & Networking	Foyer Area,2F
14:45-16:15	Civil Engineering(1)	Anson1
	Politics(4)	Anson2
	Education(5)/ Literature and Linguistics (3)	Anson4
16:15-16:25	Tea Break & Networking	Foyer Area,2F
16:25-17:25	Civil Engineering(2)	Anson1

Friday, December 22, 2017

Technical Tour

Singapore Institute of Management/ the SIM Atrium

10:00-12:00

Natural Sciences Keynote Speech

Anson IV, 2nd Floor

10:30-12:00, Wednesday, December 20, 2017

Topic:

Machine Learning in Computer Science

Dr. Katie Brodhead

Associate Professor

Department of Mathematics,

Florida A&M University, USA



Keynote Abstract

Evidence suggests that growth in the technology revolution is at an exponential rate and there no evidence of any slowdown in the near term. Much of the success is owed to techniques in machine learning. Recent developments at Google and at Apple provide windows into this current growth track. Last year, AlphaGo, developed by Google's DeepMind unit, became the first computer program to beat the top human professional Go player without handicaps. At Apple, it was only three years ago that the company's flagship interactive human assistant, Siri, used "hidden Markov models" as the default computing system to answer user queries. However Apple recently moved to machine learning and deep neural network techniques. Some applications include object recognition, face recognition, and scene classification. In this talk we first give examples of these applications and provide an introduction to machine learning. A few areas of author interest are also provided. In doing so, the future of artificial intelligence with respect to machine learning is considered. What might these developments portend for the future of society? We consider some of these questions and advance the idea of the integration of other sciences into the current landscape of machine learning.

Education Workshop Session

Anson IV, 2nd Floor

10:30-12:00, Thursday, December 21, 2017

Topic:

Private Education in Singapore

Dr. Tan Khay Boon

Head of Programme

Academic Division

SIM Global Education



Abstract

The Singapore education market is dominated by the government sector which provides the bulk of all levels of education from primary to tertiary level. The private education providers taking up the balance of education market with focus more on tertiary education. Most private education providers offer their own certificate and diploma programmes and tie up with foreign universities to offer degree and postgraduate programmes. The bulk of the programmes offered are in the area of business and management. Local students tend to prefer government institutions while there is a large number of foreign students pursuing studies in the private education institutions. Over time the government has tighten up the quality of private education providers and this has resulted in a consolidation in the private education institutions. The focus of education also has changed from paper qualification to industrial relevance and lifelong learning.

**Chemical Engineering/ Environmental Science/ Mechanical
Science and Engineering(1)/ Fundamental and Applied
Sciences(1)**

Wednesday, December 20, 2017 08:45-10:15 Anson 1

Session Chair: *Prof. Terence Tumolva*

MACE-0024

Modelling the Diffusion of Citronella Oil in Calcium Alginate Microcapsules for the Development in Mosquito-Repellent Fabric

Isaac Marvin Patubo | *University of the Philippines Diliman*

Jon Michael Mendoza | *University of the Philippines Diliman*

Daniel Francis Sy | *University of the Philippines Diliman*

Terence Tumolva | *University of the Philippines Diliman*

IRSET-0024

Urban Heat Island Mitigation through Urban Design Strategies based on Visualization Platform

Tzu-Ping Lin | *National Cheng Kung University*

IRSET-0033

The Machining of Tungsten Carbide Alloy by Electrochemical Grinding

Lih-Wu Hourng | *National Central University*

Hong-Wei Liang | *National Central University*

Zhi-Wen Fan | *Metal Industries Research and Development Centre*

MACE-0009

Soot Oxidation Activity of Redox Metal Oxides (CeO₂, Pr₆O₁₁ and Mn₃O₄)

Anjana P Anantharaman | *National Institute of Technology Karnataka*

Hari Prasad Dasari | *National Institute of Technology Karnataka*

Harshini Dasari | *Manipal Institute of Technology*

Uday Bhaskar Babu | *National Institute of Technology Warangal*

Literature and Linguistics(1)/ Communication

Wednesday, December 20, 2017 08:45-10:15 Anson 2

Session Chair: *Prof. Luen Tim Percy Lui*

IACSS-0154

The Exploitation of First and Second Personal Pronouns in Political Discourse: A Case Study in Hong Kong

Sum Hung Eden Li | *The Open University of Hong Kong*

Luen Tim Percy Lui | *The Open University of Hong Kong*

Han Hong John Li | *Hong Kong Polytechnic University*

IACSS-0164

Toho's Efficient and Effective Advertisement in the Film Industry

Akiko Miyamoto | *Tokyo Institute of Technology*

IACSS-0015

Proficiency Level, Strategies, and Perceived Difficulties in Listening Comprehension of the Grade 8 Students

Mary Ann Banatao | *Cagayan National High School*

IACSS-0093

Relationships of an Old Woman with Dementia Implied in a Picture Book, 『We are All One Family』

Jo-Eun Lee | *Pusan National University*

Hea-Soog Jo | *Pusan National University*

IACSS-0117

“Vasudaiva Kutumbukam”: Unraveling the Common Origin of Mankind through Etymology

Shrirang Ashtaputre | *ILS Law College*

Sanjana Kulkarni | *ILS Law College*

IACSS-0135

Research on Information Equality for Visually-Impaired Audiences: An Audio Description Training Model

Chung Wei Russ Kan | *Institute for Information Industry*

IACSS-0177

The Use of English Words in Simple Calculator and Web Browser Software Code Taken from Visual Basic 2010 Programming Language

Brevian Rival Rinaldo Angi | *Gadja Mada University*

Education(1)

Wednesday, December 20, 2017 08:45-10:15 Anson 4

Session Chair: *Dr. Thanh Pham*

IACSS-0033

Teaching towards graduate attributes: How much does this approach help graduates with employability?

Thanh Pham | *Monash University*

IACSS-0067

A Comparison Descriptions between Parent and Teacher on Character Strengths of Young Children (3-5 Years Old)

Hae-Ik Hwang | *Pusan National University*

Reena Park | *Pusan National University*

IACSS-0096

The Study of Body Image, Self-Esteem and Sexual Satisfaction of College Students in Southern Taiwan

Hsiu-Chou Lin | *Shu-Te University*

IACSS-0163

A Story about an Early Childhood Teacher's Encounter with Art: Autoethnography

Su Yeon Park | *Pusan National University*

Boo Yeun Lim | *Pusan National University*

IACSS-0168

Analysis on Residential Space Found in Korean Young Children's Picture Books

Seojung Lee | *Pusan National University BK21 Plus Research Team*

Boo-Yeun Lim | *Pusan National University*

IACSS-0188

Reflective Practice in Nursing: Voices from Nursing Students

Songsuda Muenthaisong | *Khon Kean University*

Sarintip Raksasataya | *Khon Kean University*

Jintana Tangvoraphonkchai | *Khon Kean University*

**Computing Science & IT Engineering(1)/ Mechanical Science
and Engineering(2)/ Computer Science Applications/ Electrical
& Electronic Engineering(1)/ Material Science and
Engineering(1)**

Wednesday, December 20, 2017 13:00-14:30 Anson 1

Session Chair: *Prof. Tian-Bo Deng*

EECS-0016

Simulation-Based AR Visualization of Flood Situation for Alarming in Underground Spaces

Yoshihiro Yasumuro | *Kansai University*

Makoto Hirose | *Kansai University*

Yoshihirko Shizu | *Kansai University*

Kazuki Fujisato | *Kansai University*

Hiroshige Dan | *Kansai University*

Taira Ozaki | *Kansai university*

Taisuke Ishigaki | *Kansai university*

IRSET-0004

Knowledge Conspectus

Kazem Abhary | *University of South Australia*

Dennis Mulcahy | *University of South Australia*

Ramadas Narayanan | *Central Queensland University*

Sead Spuzic | *University of South Australia*

IRSET-0003

Absorption Chiller – A Technology of Cooling and Heating with Energy Saving and Environment Friendly

Yongjian Gu | *US Merchant Marine Academy*

EECS-0022

Measurement and Visualization of Time Varying Magnetic Field through Triaxial Coil

Sungjae Kim | *Konkuk University*

Euibum Lee | *Konkuk University*

Hyunchul Ku | *Konkuk University*

EECS-0025

Simulation of a Fault Tolerant Data Structure Scrubber

Ray Kresman | *Bowling Green State University*

MACE-0061

Ternary Hybrids of Trititanate Nanotubes, CdS, and Pt for Photocatalytic H₂ Production Under Visible Light

Hyunwoong Park | *Kyungpook National University*

Economics(1)/ Finance/ Business & Management(1)

Wednesday, December 20, 2017 13:00-14:30 Anson 2

Session Chair: *Prof. Ruby Ojha*

IACSS-0026

Economic Integration within SAARC with Special Reference to India

Ruby Ojha | *Shreemati Nathibai Damodar Thackersey Women's University*

IACSS-0056

Effect of Venture Capital Exist through IPO on Enterprise Innovation: An Empirical Analysis on China's Technological Enterprises

Lijun Li | *Beijing Union University*

Yi Yang | *Beijing Union University*

IACSS-0058

Fitting and Forecasting the Taiwan Weighted Stock Index

Mei-Yu Lee | *Yuanpei University of Medical Technology*

IACSS-0094

Exploring and Reforming the Mechanisms Inhibiting Promotion of Women Managers: A Case Study of Two Types of Japanese Companies

Tomoko Komagawa | *Hokkaido University*

IACSS-0105

Supply Chain Analysis of Maize in Indonesia

Christine Natalia | *Atma Jaya Catholic University of Indonesia*

Wibawa Prasetya | *Atma Jaya Catholic University of Indonesia*

Arvin Djie | *Atma Jaya Catholic University of Indonesia*

IACSS-0115

Managing the Business of Green Apparel for a Sustainable Society

Nikita | *Panjab University*

Rita Kant | *Panjab University*

**Electrical & Electronic Engineering(2)/ Computing Science & IT
Engineering(2)/ Mechanical Science and Engineering(3)/
Fundamental and Applied Sciences(2)/ Information
Engineering(1)**

Wednesday, December 20, 2017 14:45-16:15 Anson 1

Session Chair: *Dr. Sead Spuzic*

IRSET-0044

A Contribution to Predicting Spread in Hot Rolling

Dimuthu Hapu Arachchigea | *University of South Australia*

Yashwanth Buddineni | *University of South Australia*

Ramadas Narayanan | *Central Queensland University*

Sead Spuzic | *University of South Australia*

Kazem Abhary | *University of South Australia*

IRSET-0029

A Parallel Acquisition of P Code Based on Folding in GPS

Keunhong Chae | *Sungkyunkwan University*

Seokho Yoon | *Sungkyunkwan University*

IRSET-0042

Analysis of Rope Skipping Features for Gross Motor Skill Development

Karungaru Stephen | *Tokushima University*

Kenji Matsuura | *Tokushima University*

Nada Gotoda | *Kagawa University*

IRSET-0058

Toward Scheduling for Railway Systems Based on Max-Plus Linear Systems – Extension of State Equation for Actual Operation –

Yumiko Kusunoki | *Nagaoka University of Technology*

Hiroataka Takahashi | *Nagaoka University of Technology*

EECS-0023

A Study on Privacy Protection Policy for Safe IoT Service

Young-Jin Shin | *Pai Chai University*

Social Studies(1)/ Politics(1)/ Law (1)

Wednesday, December 20, 2017 14:45-16:15 Anson 2

Session Chair: *Prof. Yung Yau*

IACSS-0104

Effects of Antisocial Behaviour on Residential Dissatisfaction: A Study of Public Rental Housing Estates in Hong Kong

Yung Yau | *City University of Hong Kong*

IACSS-0025

Survey of Implicit and Explicit Attitudes toward Male-to-Female Transgender (M to F) Friendly among the General Public of in Taiwan

Hsuan-Hsuan Chen | *Shu-Te University*

Chun-Ming Shih | *Shu-Te University*

IACSS-0070

The Connection of China's *Guanxi* Diplomacy to Its State-Owned Enterprises' FDI in Latin America, 2010-2015

Yin Shi Adolfo Wu | *Shih Chien University*

Tonly Kuo | *Shih Chien University*

IACSS-0137

Shopping Behavior of Young Consumers in the Emerging Mall Culture

Ramandeep Bawa | *Panjab University*

Rita Kant | *Panjab University*

Anil Kishore Sinha | *Panjab University*

IACSS-0156

Maternity-Related Wrongful Dismissals under China's Gender Equality Laws

Chi-Nan Hsieh | *Fujian Agriculture and Forestry University*

Yulang Hu | *Fujian Agriculture and Forestry University*

Yifang Zheng | *Fujian Agriculture and Forestry University*

Education(2)

Wednesday, December 20, 2017 16:25-17:25 Anson 1

Session Chair: *Prof. Hairon Salleh*

IACSS-0167

Student Leadership in Learning Communities Contexts Affording Positive Student Experience in Higher Education: A Proposed Exploratory Study

Hairon Salleh | *Nanyang Technological University*

Soon How Loh | *Nanyang Technological University*

IACSS-0108

The Practice of Aesthetic Education – The Experimental Curriculum of Aesthetic Literacy and Cultural Creativity

Chia-Hung Kao | *National Taiwan Normal University*

IACSS-0178

Study on Flourish of Early Childhood Teachers through Focus Group Interviews

Mijin Kim | *Pusan National University*

IACSS-0181

Transformation of Education Policy by the Nation-State in the Era of Migration

Miki Sugimura | *Sophia University*

Politics(2)/ Social Studies(2)

Wednesday, December 20, 2017 16:25-17:25 Anson 2

Session Chair: *Dr. Sudaporn Khiewngamdee*

IACSS-0106

The Royal Activities of His Majesty King Bhumibol towards Muslims in Thailand

Chamnong Kanthik | *Mahamakut Buddhist University*

Sudaporn Khiewngamdee | *Mahamakut Buddhist University*

IACSS-0101

China and Multilateral Environmental Regimes

Tomoko Takahashi | *University of Tokyo*

IACSS-0141

Vignettes of the Sexually Marginalized: The Experiences of Openly Gay and Lesbian Students in Colegio de San Juan de Letran, Manila

Franz Jude Abelgas | *Colegio de San Juan de Letran*

Mary Rose Magbujos Salagubang | *Colegio de San Juan de Letran*

IACSS-0183

A Proposed Research Study on Structure and Agency in Reproducing, Producing, and Co-Producing Knowledge: A Sociology of Knowledge Approach to Discourses on Multiculturalism in Singapore Secondary Schools

Soon How Loh | *Nanyang Technological University/ National Institute of Education*

Electrical & Electronic Engineering(3)/ Computing Science & IT Engineering(3)

Thursday, December 21, 2017 08:45-10:15 Anson 1

Session Chair: *Prof. Katie Brodhead*

IRSET-0008

Decidable Effectively Closed Sets and Acceptably Equivalent Numberings

Katie Brodhead | *Florida A&M University*

IRSET-0077

Magnetic Response Characteristics of Magneto-Resistive Sensors with Superconducting Magnetic Focusing Thin Film

Tetsuro Hirata | *Okayama University*

Yoshihiro Nakamura | *Okayama University*

Yatsuse Majima | *Okayama University*

Kaoru Amano | *Okayama University*

Kenji Sakai | *Okayama University*

Toshihiko Kiwa | *Okayama University*

Keiji Tsukada | *Okayama University*

IRSET-0078

Development of Bridge-Type Hydrogen Sensor using Pt Ultra-Thin Film

Kaoru Amano | *Okayama University*

Ryo Furukawa | *Okayama University*

Kenji Sakai | *Okayama University*

Toshihiko Kiwa | *Okayama University*

Keiji Tsukada | *Okayama University*

IRSET-0074**Evaluation of Dye Sensitized Solar Cell using AC Impedance Estimation Method by Magnetic Measurement**

Tsubasa Kizu | *Okayama University*

Kenji Sakai | *Okayama University*

Toshihiko Kiwa | *Okayama University*

Keiji Tsukada | *Okayama University*

EECS-0005**Energy Management System for Peak Shaving in an Experimental Microgrid Employing MILP Optimization**

Mojtaba Moghimi | *Griffith University*

Domagoj Leskarac | *Griffith University*

Chirag Panchal | *Griffith University*

Junwei Lu | *Griffith University*

Sascha Stegen | *Griffith University*

EECS-0027**Fabrication and Characterization of Pyroelectric Infrared Sensor**

Mohamed Harb | *Higher Institute of Engineering and Technology*

Economics(2)/ Business & Management(2)

Thursday, December 21, 2017 08:45-10:15 Anson 2

Session Chair: *Prof. Young-Jun Choi*

IACSS-0057

Analysis of Migration Patterns and Determinants of Myanmar

Young-Jun Choi | *Kyung Hee University*

Jiaen Lee | *Kyung Hee University*

IACSS-0054

Optimal Task Design to Intrinsically Motivated Workers with an Incomplete Contract

Keiki Kumagae | *Kyushu University*

IACSS-0158

The Factors that Influence Audit Quality of Auditor (Study at State Development Audit Agency in South Sumatera, Indonesia)

Ahmad Hafiz Wijanarko | *State Polytechnic of Sriwijaya*

Evada Dewata | *State Polytechnic of Sriwijaya*

Nelly Masnila | *State Polytechnic of Sriwijaya*

IACSS-0162

Behavioural Ethics and Technological Interventions for Increased Organizational Efficiency

Vasanth Adithya | *Kreetam Law Associates*

IACSS-0180

A Study on the Promotion of Case Health Management by Tremella Mushroom as Personalized Diets Intervention

Sheng-Hsiung Huang | *Asia University*

Chia-Yu Chen | *China Medical University*

Min-Min Lee | *Asia University*

Hung-En Liao | *Asia University*

IACSS-0090

BRICS Countries in Current Economic Scenario

H.K. Singh | *Banaras Hindu University*

Fate Bahadur Singh | *Banaras Hindu University*

Vaibhav | *Banaras Hindu University*

Education(3)

Thursday, December 21, 2017 08:45-10:15 Anson 4

Session Chair: *Dr. Sonny, Yip Hong Choy*

IACSS-0013

Starting with a Hunch. Learning Journeys of Design Students Toward Relevant Design Solutions. How Teaching Staff Support and Scaffold Student Learning in Capstone Projects

Sonny, Yip Hong Choy | *Technological and Higher Education Institute of Hong Kong*

IACSS-0047

EFL Learners' and Teachers' Perception of Grammar Instruction and Error Correction

Jeong-Won Lee | *Chungnam National University*

Kyeong-Ok Yoon | *Republic of Korea Air Force Academy*

IACSS-0061

Medium Rhetoric in Media Art Education Strategy of Slow TV

Yu Cheng Yu | *National Taiwan Normal University*

IACSS-0075

The Waves: The Curriculum for Integrating Visual Arts and Creative Movement with Preschool Children

Ching-Show Lin | *National Taiwan Normal University*

IACSS-0091

An Action Research on the Application of Aesthetic Course in Outdoor Education

Hui-Min Lin | *National Taiwan Normal University*

IACSS-0086

Respectful Inquiry (RI): How Expert Teachers' Utilize RI to Facilitate Student Learning Outcomes

Fiona Tan | *University of Western Australia*

Peter R. Whipp | *Murdoch University*

Marylène Gagné | *University of Western Australia*

Niels Van Quaquebeke | *Kühne Logistics University*

Material Science and Engineering(2)/ Biomedical Engineering

Thursday, December 21, 2017 10:30-12:00 Anson 1

Session Chair: *Prof. Parthasarathi Gupta*

MACE-0008

Structural and Optical Properties of Al & Li Doped ZnO Nanorods

Parthasarathi Gupta | *IIT(ISM) Dhanbad*

Nanda Shakti | *IIT(ISM) Dhanbad*

MACE-0012

Hard Magnetic Nanoparticle Added Carbonyl Iron based Magnetorheological Suspensions

Hyoung Jin Choi | *Inha University*

MACE-0029

Hydroxyapatite Coating on Titanium by Ultrasonic Mechanical Alloying Coating Method

Shih-Fu Ou | *National Kaohsiung University of Applied Sciences*

Liang-Wei Lin | *National Kaohsiung University of Applied Sciences*

Kuang-Kuo Wang | *National Sun Yat-Sen University*

Yi-Cheng Chen | *National Kaohsiung University of Applied Sciences*

MACE-0030

Calcium Zincate as a Reversible Electrode for Rechargeable Zinc-Air Batteries

Yu-Jeong Min | *Korea Electrotechnology Research Institute, University of Science and
Technology*

Su-Jung Oh | *Korea Electrotechnology Research Institute*

Jeong-Hee Choi | *Korea Electrotechnology Research Institute*

Min-Soo Kim | *Korea Electrotechnology Research Institute*

Seungwook Eom | *Korea Electrotechnology Research Institute, University of Science and
Technolog*

MACE-0031

Synthesis and Electrochemical Properties of Nickel Embedded Ordered Mesoporous Carbon as a Cathode Catalyst for Rechargeable Zinc-Air Batteries

Su-Jung Oh | *Korea Electrotechnology Research Institute*

Yu-Jeong Min | *Korea Electrotechnology Research Institute*

Jeong-Hee Choi | *Korea Electrotechnology Research Institute*

Min-Soo Kim | *Korea Electrotechnology Research Institute*

Nam-Ju Jo | *Pusan National University*

Seungwook Eom | *Korea Electrotechnology Research Institute*

IRSET-0079

Evaluation of Serum Influence on Magnetic Immunoassay using Magnetic Nanoparticles

Shun Takeuchi | *Okayama University*

Tetsuro Hirata | *Okayama University*

Ryota Isshiki | *Okayama University*

Yuta Nakamura | *Okayama University*

Kayo Fujimoto | *Okayama University*

Kenji Sakai | *Okayama University*

Toshihiko Kiwa | *Okayama University*

Keiji Tsukada | *Okayama University*

Computing Science & IT Engineering(4)/ Fundamental and Applied Sciences(3)/ Information Engineering(2)/ Wireless or Mobile Communication & Computing

Thursday, December 21, 2017 13:00-14:30 Anson 1

Session Chair: *Prof. Tian-Bo Deng*

EECS-0004

Simplified Variable Odd-Order Bandpass Filter

Tian-Bo Deng | *Toho University*

EECS-0012

A Three-Dimensional Passive Tracking Scheme in Indoor Environments

Jungpyo Lee | *Kwangwoon University*

Deockhyeon Ahn | *Kwangwoon University*

Youngok Kim | *Kwangwoon University*

IRSET-0061

Development of Automatic Classification System for Leukocyte Images Using Random Forest

Shinnosuke Tomiyama | *Tokyo University of Science*

Mamiko Sakata | *University of Tsukuba*

Shigeru Chiba | *University of Tsukuba*

Naoyuki Aikawa | *Tokyo University of Science*

IRSET-0062

Cancellation for the Show-Through and Ground Tint using Only the Front Side Image

Yuri Sakurai | *Tokyo University of Science*

Tahahiro Natori | *Tokyo University of Science*

Nari Tanabe | *Tokyo University of Science,*

Naoyuki Aikawa | *Tokyo University of Science*

IRSET-0063

The Development of e-Learning System for Electric Circuit Class Available on Smart Device

Tomoya Kobayashi | *Tokyo University of Science*

Naoyuki Aikawa | *Tokyo University of Science*

IRSET-0076

Multi-Objective Genetic Algorithm Using Space Filter for Logistics Problem Combined with Inventory Control in Multi-Periods under Unsteady Demand

Masahiro Arakawa | *Nagoya Institute of Technology*

Humanities and Culture Studies(1)/ Psychology(1)/ Social Studies(3)

Thursday, December 21, 2017 13:00-14:30 Anson 2

Session Chair: *Prof. William Phillips*

IACSS-0095

Cultural Differences in the Aesthetic Preference of Photographs

William Phillips | *Dominican University of California*

Afshin Gharib | *Dominican University of California*

IACSS-0022

Marriage and No Visiting Husbands: Law of Kinship among Thiyya and Ezhava Communities of India

Sreebitha Payattuvalappil | *Central University of Karnataka*

IACSS-0066

Lived Experiences of On-Campus Working Students

Samantha Seno | *University of the East - Manila*

Stephanie Camille Sobremesana / *University of the East - Manila*

John Lester Gelido | *University of the East - Manila*

Jeremiah Ramirez | *University of the East- Manila*

Lorenzo Samano | *University of the East - Manila*

IACSS-0159

Factors to Affect Parental Stress in Hong Kong

Raymond W. M. Chan | *City University of Hong Kong*

Education(4)/ Humanities and Culture Studies(2)/ Law(2)/

Literature and Linguistics (2) / Psychology(2)/Politics(3)

Thursday, December 21, 2017 13:00-14:30 Anson 4

Session Chair: *Dr. Kavitha Rameshwar*

IACSS-0174

Shift in Child Bearing Years among Women and Globalization: A Special Focus on Developing Nations

Kavitha Rameshwar | *Madras High Court*

IACSS-0051

The Comparison between Augmented Reality and Tradition Teaching Materials on Visual Aesthetics Education

Yu-Wei Yu | *National Taipei University of Education*

Chun-Di Chen | *National Taipei University of Education*

IACSS-0125

Copyright Enforcement in a Digital Environment-Comparative Analysis of Singapore Vis a Vis Indian Jurisdiction

Silvan Jasper | *Indian Law Society's Law College*

Udbhav Gady | *Indian Law Society's Law College*

IACSS-0182

How to Enhance the Employability of University Students? An Example from the United Arab Emirates University

Mohammed Aboelenein | *United Arab Emirates University*

IACSS-0194

The Study on Water Environment and Well-being of University Students in China

Chenchen Peng | *Dalian University of Technology*

Yue Hu | *Dalian University of Technology*

IACSS-0201

Gender and development in local governance

Jo Mark M. Libre | *Jose Maria College*

Nelia Q. Canada | *Jose Maria College*

Leonora Q. De Guzman | *Jose Maria College*

Civil Engineering(1)

Thursday, December 21, 2017 14:45-16:15 Anson 1

Session Chair: *Prof. Seiji Hashimoto*

IRSET-0060

Relationship between Willingness for Out-of-the-Home Leisure Activities and Subjective Well-Being of Elderly People

Seiji Hashimoto | *Okayama University*

Naoya Atsumi | *Kobe City*

Syuji Yoshiki | *Fukuoka University*

IRSET-0018

Establishment of Coupled Modelling System by Linking Surge-Tide-Riverine Flow Effect

Chilwoo Lee | *Korea University.*

Sangyoung Son | *Korea University.*

IRSET-0055

Factors Influencing Driver Safety Awareness of Hands-Free Cell Phone Use While Driving

Yuyang Zhang | *Okayama University*

Haruka Uno | *Okayama University*

Seiji Hashimoto | *Okayama University*

IRSET-0056

Relation between Driver Features and Safe Driving

Haruka Uno | *Okayama University*

Yuyang Zhang | *Okayama University*

Seiji Hashimoto | *Okayama University*

IRSET-0075

Optimizing Cost/ Scheduling Problems for Construction Job Sites

Xuelel Jia | *Korea University of Technology and Education*

Jaehyun Choi | *Korea University of Technology and Education*

Politics(4)

Thursday, December 21, 2017 14:45-16:15 Anson 2

Session Chair: *Prof. Man Ho Heo*

IACSS-0116

Negotiations with North Korea on Forest Carbon Offset Projects: Exploitation of Referential Variables and Examination of Feasibility using SWOT Analysis

Man-ho Heo | *Kyungpook National University*

Miran Kim | *Kyungpook National University*

IACSS-0150

Campaign Effects and Issue Attitudes in the 2008 U.S. Election

Jeeyoung Park | *Myongji University*

IACSS-0165

Independent Voters in South Korea: The Characteristics and Voting Behavior in the 2016 National Assembly Election

Jongbin Yoon | *Myongji University*

Soo Hyun Jung | *Myongji University*

Jinju Kim | *Myongji University*

IACSS-0151

Factors Affecting the Political Participation of People with Disabilities in the Presidential Election in Yogyakarta City in the Year 2014

Helen Dian Fridayani | *Universitas Muhammadiyah Yogyakarta*

Fikri Zulfikar | *Universitas Muhammadiyah Yogyakarta*

IACSS-0155

Are Immigrants Friendly toward Fellow Immigrants?

Hoi Ok Jeong | *Myongji University*

IACSS-0148

**Controlled Fragmenting Authoritarianism: Operations of the Chinese Communist Party's
“Deliberation and Coordination Agencies” and Xi Jinping’s Centralization Mechanism**

Wen-Hsuan Tsai | *Academia Sinica*

Wang Zhou | *Nankai University*

Education(5) / Literature and Linguistics(3)

Thursday, December 21, 2017 14:45-16:15 Anson 4

Session Chair: *Prof. Lesiba Teffo*

IACSS-0136

Democracy and Education: Vehicles of *Transformation* for Sustainable Development in Africa

Lesiba Teffo | *University of South Africa*

IACSS-0123

The Ecological and Social Network Analysis of Children's English Education in Korea

Seung Ji Kang | *Pusan National University*

Youn Sun Lee | *Pusan National University*

Min Ou Kim | *Pusan National University*

Hye Young Jung | *Pusan National University*

IACSS-0166

Exploring the Character Strength of Early Childhood Teachers

Hae Ik Hwang | *Pusan National University*

Hye Kyoung Chae | *Pusan National University*

Civil Engineering(2)

Thursday, December 21, 2017 16:25-17:25 Anson 1

Session Chair: *Prof. Soo-Yeon Seo*

IRSET-0051

Joint Design of Precast Concrete Moment Frame Using Hollow Precast Concrete Column

Tae-Wan Kim | *Korea National University of Transportation*

Seol-Ki Kim | *Korea National University of Transportation*

Su-Jin Jung | *Korea National University of Transportation*

Jong-Wook Lim | *Korea National University of Transportation*

Se-Gi Song | *Korea National University of Transportation*

Soo-Yeon Seo | *Korea National University of Transportation*

IRSET-0014

Estimation of Service Utilization and Occupancy Rate of Day Care Facility in Yamaguchi Prefecture

Sachiko Mishima | *Yamaguchi University*

Mahito Nakazono | *Yamaguchi University*

Shoken Koh | *Yamaguchi University*

Sachiko Yamamoto | *University of Tsukuba*

IRSET-0047

The Development of Construction Procedure Prototype for Structural Framework of HPC Method

Ju Seong Noh | *Korea National University of Transportation*

Soo Yeon Seo | *Korea National University of Transportation*

Jae Yup Kim | *Korea National University of Transportation*

IRSET-0052

**Structural Performance of Underground Composite Wall for Extension of Underground
Parking Lot of Apartment Building**

Su-Jin Jung | *Korea National University of Transportation*

Seol-Ki Kim | *Korea National University of Transportation*

Tea-Wan Kim | *Korea National University of Transportation*

Jong-Wook Lim | *Korea National University of Transportation*

Soo-Yeon Seo | *Korea National University of Transportation*

Poster Sessions (1)

Material Science and Engineering / Biomedical Engineering

Wednesday, December 20, 2017 13:00-14:00 Anson 4

IRSET-0040

Fabrication of ZnO Nanorod/Polymer Fiber for Desulfurization from Reformed Hydrogen

Jae-Young Lee | *Woosuk University*

Hee-Suck Jung | *Woosuk University*

Hong-Ki Lee | *Woosuk University*

MACE-0007

New Low Viscosity UV-Cured Coatings Fabricated by Adding Chain Transfer Agents

Ping-Szu Tsai | *National Kaohsiung University of Applied Sciences*

Cheng-Hsian Tsai | *National Kaohsiung University of Applied Sciences*

Jung-Yi Wu | *National Kaohsiung University of Applied Sciences*

Hsin-Lin Wang | *National Kaohsiung University of Applied Sciences*

MACE-0017

Wearable Fiber-Type Transistors from Buckled Graphene Hybrid Fibers

Jea Uk Lee | *Korea Research Institute of Chemical Technology (KRICT)*

MACE-0019

Temperature and Electric Field-Responsive Liposomes Bearing with Amphiphilic Copolymer

Jin Ah Kim | *Kangwon National University*

Jin-Chul Kim | *Kangwon National University*

MACE-0020

Facile Preparation of Nanostructural Controlled Ag₃PO₄ Photo-Anodes for Enhanced Photoelectrochemical Water Splitting under Visible-Light

Hideyuki Katsumata | *Mie University*

Tohru Suzuki | *Mie University*

Satoshi Kaneco | *Mie University*

MACE-0021

Reduction-Sensitive Microsphere used Octadecyl Acrylate and Allyl Disulfide

Tae Hoon Kim | *Kangwon National University*

Jin-Chul Kim | *Kangwon National University*

MACE-0023

Synthesis, Dispersion, and Tribological Characteristics of Alkyl Functionalized Graphene Oxide Nanosheets for Oil-Based Lubricant Additives

Jin-Yeong Choe | *Keimyung University*

Yong-Jae Kim | *Keimyung University*

Chang-Seop Lee | *Keimyung University*

MACE-0025

Synthesis and Electrochemical Properties of Carbon Nanofibers and Carbon Nanofibers/SiO₂ Composite on C-Fiber Textiles as an Anode Material for Li Secondary Batteries

Eunjeong Hwang | *Keimyung University*

Heai-Ku Park | *Keimyung University*

Chang-Seop Lee | *Keimyung University*

MACE-0027

A Rational Strategy for Graphene Transfer on Arbitrary Substrates

Jin-Yong Hong | *Korea Research Institute of Chemical Technology*

MACE-0028

Improvement in Extrudability and Mechanical Properties of Mg Alloys through Artificial Cooling during Extrusion

Sang-Hoon Kim | *Kyungpook National University*

Jong Un Lee | *Kyungpook National University*

Ha Sik Kim | *Korea Institute of Materials Science*

Bong Sun You | *Korea Institute of Materials Science*

Sung Hyuk Park | *Kyungpook National University*

MACE-0033

Development of Flexible Moisture-Absorbent/Adhesive Materials

Sung Hee Kim | *Sungkyunkwan University*

Jun Young Lee | *Sungkyunkwan University*

MACE-0037

Non-Classical Control of Circularly Polarised Luminescence of Binaphthyl–Eu(III) Hybridised Luminophores

Nobuyuki Hara | *Kindai University*

Mamoru Okazaki | *Kindai University*

Motohiro Shizuma | *Osaka Municipal Technical Research Institute*

Shinsuke Marumoto | *Kindai University*

Nobuo Tajima | *National Institute for Materials Science*

Michiya Fujiki | *Nara Institute of Science and Technology*

Yoshitane Imai | *Kindai University*

MACE-0038

Nylon12-b-PEG Multiblock Copolymer/Poly(Ethylene-Co-Acrylic Acid) Blends with Triple-Shape Memory Effects

Myung Chan Choi | *Hanyang University*

Young-Wook Chang | *Hanyang University*

MACE-0040

Leaching and Wet Torrefraction for Enhancement of Fuel Properties of Biomass-Solid Refuse Fuel (BIO-SRF)

Min Um | *Chonnam National University*

Sung-Ho Gong | *Chonnam National University*

Jae-Won Lee | *Chonnam National University*

MACE-0044

Enhanced Photocatalytic Activity of Alkaline Treated Carbon Dots/g-C₃N₄

Yuto Nakai | *Mie University*

Hideyuki Katsumata | *Mie University*

Tohru Suzuki | *Mie University*

Mai Furukawa | *Mie University*

Satoshi Kaneco | *Mie University*

MACE-0045

Porous Hyaluronic Acid Carriers for Corneal Cell Sheet Delivery: Biopolymer Concentration Effect

Jui-Yang Lai | *Chang Gung University*

MACE-0046

Magnetic Solid-Phase Extraction Based on Magnetic Multiwalled Carbon Nanotubes for the Determination of Indomethacin and Diclofenac in Water Samples

Mina Nonome | *Mie University*

Hideyuki Katsumata | *Mie University*

Tohru Suzuki | *Mie University*

Mai Furukawa | *Mie University*

Satoshi Kaneco | *Mie University*

MACE-0047

Photocatalytic Activity of g-C₃N₄ Synthesized from Urea

Fumiya Higashi | *Mie University*

Hideyuki Katsumata | *Mie University*

Tohru Suzuki | *Mie University*

Mai Furukawa | *Mie University*

Satoshi Kaneco | *Mie University*

MACE-0048

Preconcentration with Activated Carbon Adsorption/Nitrogen Stream Method for the Determination of Bisphenol in Water Sample by HPLC

Takumi Okada | *Mie University*

Hideyuki Katsumata | *Mie University*

Tohru Suzuki | *Mie University*

Mai Furukawa | *Mie University*

Satoshi Kaneco | *Mie University*

MACE-0049

Blood Clot Initiation by EMT Zeolite Nanoparticles Contain Nanofiber as Hemostatic Agent: A Comparative Study with in Vivo Performance

Sang Eun Hong | *Hannam University*

Ok Hee Kim | *The Catholic University*

Ha Eun Hong | *The Catholic University*

Say June Kim | *The Catholic University*

Kuk Ro Yoon | *Hannam University*

MACE-0050

Effect of Supporting Salts on Photoelectrochemical Reduction of CO₂ in Methanol with Cu Cathode and TiO₂ Photoanode

Tatsuhiko Yamamoto | *Mie University*

Hideyuki Katsumata | *Mie University*

Tohru Suzuki | *Mie University*

Mai Furukawa | *Mie University*

Satoshi Kaneco | *Mie University*

MACE-0051

Photocatalytic Hydrogen Production from Alcohol Solution with Ni₃S₄/Zn_xCd_{1-x}S under Visible Light Irradiation

Yuki Egawa | *Mie University*

Hideyuki Katsumata | *Mie University*

Tohru Suzuki | *Mie University*

Mai Furukawa | *Mie University*

Satoshi Kaneco | *Mie University*

MACE-0053

Electrochemical Reduction of CO₂ in Methanol with the Aid of the Oxidation of CH₃COOH

Naoki Uemoto | *Mie University*

Hideyuki Katsumata | *Mie University*

Tohru Suzuki | *Mie University*

Mai Furukawa | *Mie University*

Satoshi Kaneco | *Mie University*

MACE-0054

Fabrication of Ultrafine Poly(dimethylsiloxane) Nanofibrous Membrane using Electrospinning for Applied in Flexible Electrode

Sung Yun Choi | *Hannam University*

Sang Eun Hong | *Hannam University*

Choon Woo Lim | *Hannam University*

Soo Sang Chae | *Korea Research Institute of Chemical Technology(KRICT)*

Kuk Ro Yoon | *Hannam University*

MACE-0059

Investigation by simulation on non-uniform spectrum of TiO₂-Ag Low-E film made by arc plasma discharge coating machine along lateral PET substratee

En-Shih Chen | *Institute of Nuclear Energy Research*

IRSET-0045

An Increase in Sub-Lobar Activation Affected by Addition Task during Driving

Woo-Ram Kim | *Konkuk University*

Ji-Hun Jo | *Konkuk University*

Mi-Hyun Choi | *Konkuk University*

Hyung-Sik Kim | *Konkuk University*

Soon-Cheol Chung | *Konkuk University*

Poster Sessions (2)

**Chemical Engineering / Electronics & Electrical Engineering /
Computing Science & IT Engineering / Information Engineering**

Wednesday, December 20, 2017 14:30-15:30 Anson 4

IRSET-0011

Synthesis of Emericellamide A and its Isomers via Fluorous Mixture Synthesis of Stereoisomerically Different Fragments

Ryuhei Shirai | *Meijo University*

Masato Ito | *Meijo University*

Yuya Sugiyama | *Meijo University*

Takayuki Shioiri | *Meijo University*

Masato Matsugi | *Meijo University*

IRSET-0019

Transparency Evaluation of the Optical Material using Hansen Solubility Parameter

Shinji Yamane | *Kansai University*

Hideki Yamamoto | *Kansai University*

IRSET-0020

Improvement of Thermal Stability of CHA type Zeolite Substituted Titanium for Aluminum

Hiroyasu Ishii | *Kansai University*

Satoshi Imasaka | *Kansai University*

Sadao Araki | *Kansai University*

Hideki Yamamoto | *Kansai University*

IRSET-0021

Hansen Solubility Parameter for Some Porphyrin Compounds Consisting with Various Side Chains and Metal Species

Naoya Fukatsu | *Kansai University*

Hideki Yamamoto | *Kansai University*

IRSET-0022

Analytical Evaluation of Hansen Solubility Parameter for Ionic Liquids

Yusuke Agata | *Kansai University*

Hideki Yamamoto | *Kansai University*

MACE-0003

Effects of Vanadium Precursor and Post-Calcination on the Photocatalytic Activity of Ag_3VO_4

Chung-Hsin Wu | *National Kaohsiung University of Applied Sciences*

Chao-Yin Kuo | *National Yunlin University of Science and Technology*

Jui-Tai Wu | *National Kaohsiung University of Applied Sciences*

Guo-Yi Lee | *National Kaohsiung University of Applied Sciences*

Ren-Fu Yang | *National Kaohsiung University of Applied Sciences*

MACE-0010

Torrefaction Process Optimization for the Combustion Behavior of Coal/Biochar by Taguchi Method

Chao-Wei Huang | *National Kaohsiung University of Applied Sciences*

Yueh-Heng Li | *National Cheng Kung University*

Kai-Lin Xiao | *National Cheng Kung University*

Yu-Cheng Hsuan | *National Kaohsiung University of Applied Sciences*

MACE-0011

Synthesis and Ring-Closing Metathesis Reactions using Grubbs-Hoveyda Second-Generation Catalysts Bearing Extensive π -Conjugated Aromatic Groups on the Ligand

Rina Igarashi | *Meijo University*

Yuki Kobayashi | *Meijo University*

Yuya Sugiyama | *Meijo University*

Takayuki Shioiri | *Meijo University*

Masato Matsugi | *Meijo University*

MACE-0014

Amphiphilic Block-Graft Copolymer Membranes with Ionic Liquid for Carbon Dioxide Separation

Jung Yup Lim | *Yonsei University*

Byung Ju Park | *Yonsei University*

Jong Hak Kim | *Yonsei University*

MACE-0015

Preparation of Heterostructured NiO Nanosheets/Mesoporous TiN Film for Energy Storage System

Jae Hun Lee | *Yonsei University*

Chang Soo Lee | *Yonsei University*

Jin Kyu Kim | *Yonsei University*

Jong Hak Kim | *Yonsei University*

MACE-0016

Fabrication of Olefin Permselective Polymer Composite Membrane with Multi-Functional MgO Nanosheets

Cheol Hun Park | *Yonsei University*

Jung Pyo Jung | *Yonsei University*

Jong Hak Kim | *Yonsei University*

MACE-0022

Release Characteristics of Lipid Nanostructures including Amphiphilic Polymers Sensitive to Electric Field

Seok Ho Park | *Kangwon National University*

Jin-Chul Kim | *Kangwon National University*

MACE-0032

Fabricated of Flexible and Ultralight Electrodes for Wearable Devices

Soo Jung Lee | *Sungkyunkwan University*

Jun Young Lee | *Sungkyunkwan University*

MACE-0034

Ultrastructural Change on Cell Wall of Lignocellulosic Biomass by Thermochemical Pretreatment

Jo-Eun Kim | *Chonnam National University*

Jae-Won Lee | *Chonnam National University*

MACE-0039

Comparative Analysis of Structural Change of Lignin during Thermochemical Pretreatment Depending on Biomass

So-Yeon Jeong | *Chonnam National University*

Jae-Won Lee | *Chonnam National University*

MACE-0042

Preparation of Fe₃O₄-Gold Core-Shell for the Detection of Bisphenol A in Aqueous Solution

Dasom Kim | *Keimyung University*

Byunghwan Lee | *Keimyung University*

MACE-0043

Preparation of Magnetite Core Shell for Detecting Bisphenol A from Aqueous Solution

Sanghui Shin | *Keimyung University*

Byunghwan Lee | *Keimyung University*

IRSET-0065

Design of Stable Cascaded IIR Filters Considering the Characteristics of the Preceding Filter

Takakazu Kimura | *Tokyo University of Science*

Naoyuki Aikawa | *Tokyo University of Science*

EECS-0002

Regenerative Effect of Microcurrent According to Intensity on Calf Muscle Atrophy in Immobilised Rabbit

Dong Rak Kwon | *Catholic University of Daegu School of Medicine*

Yong Suk Moon | *Catholic University of Daegu School of Medicine*

EECS-0006

Boron-Doping Effect on Photovoltaic Performance of Silicon Quantum Dots Based Organic Polymer Solar Cells

Keita Kato | *Tokyo Denki University*

Keisuke Sato | *Tokyo Denki University*

Kenji Hirakuri | *Tokyo Denki University*

EECS-0007

Fabrication and Evaluation of Phosphorus-Doped Silicon Nanoparticles using a Wet Process

Tsubasa Iguchi | *Tokyo Denki University*

Keisuke Sato | *Tokyo Denki University*

Kenji Hirakuri | *Tokyo Denki University*

EECS-0015

Photovoltaic Performances of Silicon/Organic Polymer Solar Cells with Ordered Cylindrical Pore Arrays

Kento Saito | *Tokyo Denki University*

Keisuke Sato | *Tokyo Denki University*

EECS-0020

Effect of Alkyl-Modification on the Near-Infrared Fluorescence from Silicon Nanoparticles

Takafumi Yasuzawa | *Tokyo Denki University*

Keisuke Sato | *Tokyo Denki University*

IRSET-0034

Reliability Enhancement Method for Integrated Platform Control System of Unmanned Surface Vehicle (USV)

Hun-Gyu Hwang | *Research Institute of Medium & Small Shipbuilding*

Yun-Tae Woo | *Research Institute of Medium & Small Shipbuilding*

Bae-Sung Kim | *Research Institute of Medium & Small Shipbuilding*

Il-Sik Shin | *Research Institute of Medium & Small Shipbuilding*

Jang-Se Lee | *Korea Maritime and Ocean University*

IRSET-0035

An Implementation of Optimized Voyage Recommendation System considering Emission Management Plan

Hun-Gyu Hwang | *Research Institute of Medium & Small Shipbuilding*

Bae-Sung Kim | *Research Institute of Medium & Small Shipbuilding*

Sang-Min Woo | *Research Institute of Medium & Small Shipbuilding*

Il-Sik Shin | *Research Institute of Medium & Small Shipbuilding*

Yeon-Jung Hong | *Research Institute of Medium & Small Shipbuilding*

IRSET-0067

Interactive Presentation for Culinary Places on Java Island using Synchronized Multimedia Integration Language

Marvin Chandra Wijaya | *Maranatha Christian University*

EECS-0021

RBAC Management with Blockchain

I-Hsien Liu | *National Cheng Kung University*

Nong-Wei Li | *National Cheng Kung University*

Chu-Fen Li | *National Formosa University*

Jung-Shian Li | *National Cheng Kung University*

Poster Sessions (3)

**Social Studies / Education / Psychology / Humanities and
Culture Studies / Business & Management / Civil Engineering /
Computer Science Applications**

Wednesday, December 20, 2017 16:00-17:00 Anson 4

IACSS-0068

Navigating the Human Ecology of Guam: Delving into the Fragile Environment

Richell Calalang | *University of Guam*

Mischa Cruz | *University of Guam*

Kimberly Tudela | *University of Guam*

Kirk Johnson | *University of Guam*

IACSS-0069

Navigating the Human Ecology of Guam: The Movement of Populations

Edward Biacan | *University of Guam*

Ashley Borja | *University of Guam*

Journey Palaganas | *University of Guam*

Samantha Uncangco | *University of Guam*

Kirk Johnson | *University of Guam*

IACSS-0071

Navigating the Human Ecology of Guam: Exploring the Culture of Consumerism

Nelisa K. Brel | *University of Guam*

Brianne LG Dustan | *University of Guam*

Heather Quitigua | *University of Guam*

Kirk Johnson | *University of Guam*

IACSS-0124

Paternal Attachment to Parents, Parental Role Identity, and Father Involvement

Jeong Jin Youn | *Tongmyoung University*

Kyoung Eun Kim | *Namseoul University*

IACSS-0153

Effects of Parenting Behaviors and Peer Attachment on Mobile Phone Dependency of Adolescents

Jiyoung Won | *Kangnam University*

IACSS-0052

Bukatsu of School Education in Japan

Tomoaki Seki | *Nayoro City University*

IACSS-0103

Physical Education to Prevent Water Accidents: Focus on the Learning Effect of Experiences in Regional Rivers

Ryosuke Inagaki | *Gifu Shotoku Gakuen University*

IACSS-0160

A Study on the Implication of the Role of Early Childhood Teachers in 'Deok(德)' in the Analects(論語) of Confucius

Hongnam Im | *Pusan National University*

Eunju Kim | *Pusan National University*

IACSS-0169

Recognition of Early Childhood Teachers on Re-Conceptualized Caring Discourse

Yeon-Ju Son | *Pusan National University BK21 Plus Research Team*

Boo-Yeun Lim | *Pusan National University*

IACSS-0072

Relationships between Two Types of Self-Esteem Measured Utilizing the Implicit Association Test and Rosenberg's Scale: Comparisons in the Intervention for Cultivating Autonomous Self-Esteem

Katsuyuki Yamasaki | *Naruto University of Education*

Takayuki Yokoshima | *Hyogo University of Teacher Education*

Ikuko Kaya | *Hyogo University of Teacher Education*

Kanako Uchida | *Naruto University of Education*

IACSS-0084**Effects of Implicit and Explicit Affect on Emotion-Focused Coping**

Kanako Uchida | *Naruto University of Education*

Takayuki Yokoshima | *Hyogo University of Teacher Education*

Ikuko Kaya | *Hyogo University of Teacher Education*

Katsuyuki Yamasaki | *Naruto University of Education*

IACSS-0171**Mental Health Status among Japanese Children Who Experienced the Triple Disaster in Fukushima in 2011- A Three Year Follow-Up in 7th to 9th Graders**

Mitsuru Hisata | *Sophia University*

Nanako Nakamura-Taira | *Hyogo University of Teacher Education*

IACSS-0048**Intention to Stay among Nurses in a Tainan's Regional Hospital**

Hui-Ping Sun | *Tainan Municipal Hospital*

Ling-Ya Fang | *Tainan Municipal Hospital*

IACSS-0049**Proactive Personality and Knowledge Sharing: The Moderating Role of Gender Effects**

Jisung Park | *Chungnam National University*

Heesun Chae | *Seoul National University*

IRSET-0013**A Study on Average Velocity Distribution of Natural Stream using ADCP**

Sung-Kee Yang | *Jeju National University*

Yong-Seok Kim | *Jeju National University*

Meyong-Su Kang | *Jeju National University*

Bo-Seong Kang | *Jeju National University*

IRSET-0036**Change of the Number of Young Children and Nursery Schools in Yamaguchi Prefecture (1960-2015)**

Riho Akiyama | *Yamaguchi University*

Yuki Utashima | *Iwaki Co., Ltd.*

Sachiko Mishima | *Yamaguchi University*

Mahito Nakazono | *Yamaguchi University*

Sachiko Yamamoto | *University of Tsukuba*

IRSET-0053**Identification of Key Performance Indicators to Measure the Constructability of Mechanical, Electrical, and Plumbing Services in the Design Phase of BIM-Based Projects**

Jaehyuk Park | *Lian Ho Lee Construction*

Kwangho Harrison Park | *PW Engineering Solution*

Jongsung Won | *Korea National University of Transportation*

IRSET-0054**Transition of the Number of Schools and Pupils of Elementary School in Chugoku Region**

Moeko Shiota | *Yamaguchi University*

Tomoya Toyota | *Yamaguchi University*

Mahito Nakazono | *Yamaguchi University*

Akira Ushijima | *Yamaguchi University*

Tomohisa Hosoda | *Yonago College*

IRSET-0068**A Review on Energy Savings of Railway Stations**

Sang-Tae No | *Korea National University of Transportation*

EECS-0008**Large-Scale Species Distribution Modeling Based on HPC and Big Data Infrastructure**

Chang-Hoo Jeong | *Korea Institute of Science and Technology Information*

Jooneun An | *Korea Institute of Science and Technology Information*

EECS-0017**A Microcurrent Stimulation Stepper for Self-Care Exercises**

Yoosoo Oh | *Daegu University*

ChangGeol Kim | *Insung Medical Co., Ltd.*

EECS-0019**A Method for Estimating Operational Damage due to a Flood Disaster using Sales Data**

Choong-Nyoung Seon | *Korea Institute of Science and Technology Information*

Minhee Cho | *Korea Institute of Science and Technology Information*

Sa-Kwang Song | *Korea Institute of Science and Technology Information*

