



Parallel Sessions Allocations

19 September 2018 Day 2 **Parallel Session 1 (1:40 pm - 3:15 pm)**

Facilitator: Dr Yuko UESUGI **Conference Hall 1+2**
Multidisciplinary Collaborations

<i>Paper ID</i>	<i>Paper Title</i>
269	Similarities and Differences between the Hiroshima and the Guanajuato Tutorship Systems Yuko Uesugi and Gonzalo Enrique Bernal Rivas
145	We can always produce if we only can sell... – need of sales education for engineers L. E. Kairisto-Mertanen
201	Enhancing Regional Innovation System and Multi-Disciplinary Education & Research Collaboration Needed by Businesses Takeharu Kiyoshi
198	Withdraw
378	Professional Learning for Internet of Things (IoT) : A Multi-Disciplinary and Industry Practice Partnership Liew Beng Keat, Seow Khee Wei, Tan Wee Siong and Vincent Lim
230	Design of a multi-disciplinary framework for improving generic skills and practical education in a depopulated mountainous area Y. Omori, T. Ohata, K. Tanaka, Y. Sato, S. Muroga, K. Tsuzuki, Y. Ichikawa and Y. Mizuguchi

Facilitator: Dr Kouji KIM **Conference Hall 3**
International Connectivity

<i>Paper ID</i>	<i>Paper Title</i>
175	Implementation and the Consideration of the Global Engineering Education Fumitake Kato
158	Free Vibration of Cracked Functionally Graded Beams with an Edge Crack in Thermal Environment May Mei-fung Tam, Chuang Feng and Jie Yang
187	Introduction of One-Day Experience of KOSEN Classes - a new program for International Exchange Activities at NIT, Nagaoka College Katsumi Ichimura, Yosuke Shimamune, Syuichi Sato, Shigeru Ogawa and Rumi Shindo Togashi
225	Unique international programs of NIT, Toyama College (Kosen) across global institutions and industry T. Homae
353	A Study of Student Exchange Programmes between Singapore & Japan Megumi Abe and Amy Amrita Daga

Facilitator: Mr Henry CHAN **Conference Hall 4**
Technology Enhanced Learning

<i>Paper ID</i>	<i>Paper Title</i>
361	Benefits of Use of Free Access Technology to Blended Learning and Student Motivation at a National Institute of Technology in Japan T. Ziemba
270	Nurturing 21 st Century Business Literacy Skills through Augmented Reality-based Mobile and Self-Directed Learning C. Pang, W. M. Kong and M. Goh
391	Improvement of studies by Video tutorial in Technical Module K. C. Ying
357	Teaching Basic Programming to Pre-University Students using Blended Learning Pedagogy Vandana Ramachandra Rao and Mok Heng Ngee
227	E-Assessment of the C Programming Language D. Rh. Gwynllwy and J. Smith
279	Active Learning Classroom Application for Engineering Education Pikulkaew Tangtisanon



Parallel Sessions Allocations

19 September 2018 Day 2 **Parallel Session 1 (1:40 pm - 3:15 pm)**

Facilitator: Mr Leo Chin Khim

Conference Hall 5

Innovative Learning and Teaching

Paper ID Paper Title

- | | |
|-----|--|
| 377 | Innovative Learning and Teaching in Job Redesign for Workplace Safety and Productivity: Nurturing Professionals for Smart Cities
C.K. Leo and Rowena. Koh |
| 305 | Investigation of Educational Efficacy of Active Learning: Estimation from Biological Viewpoint
Y. Ichikawa, K. Moriya, R. Komura, M. Morimoto, K. Yajima and Masahiro Nakagawa |
| 237 | Building Information Modelling Education in Hong Kong
T. C. LO, W. H. LO and Colin WONG |
| 161 | Case Study on Blended Learning in Technical English Teaching at the National Institute of Technology
Takuro Fujita |
| 392 | Enhance Learning by using User Experience Design
C. Jinjakam |
| 238 | Convergent Collaborative Learning (CCL) Model for Enhanced Students Learning in Biomedical Engineering Course
Kannathal Natarajan |

Facilitator: Dr Ryotaro KOMURA

Conference Hall 6

Innovative Learning and Teaching

Paper ID Paper Title

- | | |
|-----|--|
| 323 | Groupwork about Response to Fictional Security Incident in Information Security Education
R. Komura |
| 205 | Using learning styles approach in Moodle platform to enhance teaching and learning design
Tsang Kin Sang, Alex |
| 155 | Enhancing Intrinsic Motivation in an Engineering Module: An Evidence Based Approach
Mark Wan and Chong Siew Kee |
| 294 | Student Engagement in Digital Media Domain
A.B. Sherlyn Tang and C. Leong Chee Loong |
| 347 | Robot Contest for the Fukushima Daiichi Nuclear Power Plant
Y. Kobayashi and S. Suzuki |
| 226 | Use of technology enhanced teaching rooms to support flipped teaching
K.L. Henderson, C.A. Hobbs and D. Rh. Gwynllyw |

Facilitator: Dr Eric WW KWAN

Conference Hall 7

Innovative Learning and Teaching

Paper ID Paper Title

- | | |
|-----|---|
| 202 | Sharing How Fun Based Learning to Support Student More Attention in Vocational and Professional Education and Training (VPET)
K.C. Wong David |
| 327 | Report on designing and building manual-controlled robots and sharing of the lecture contents
T. Shirai, M. Kito, Y. Sawaki, T. Fujimatsu, H. Ezaki and J. Yoshida |
| 206 | Nurturing Future Cyber Security Professionals: An Experiential Learning Pedagogy
Divyan Munirathnam KONIDALA, Hoon Jin ONG, Siok Ching TAN, Yoon Hin LIEW, Hock Guan TAN, Yaw Tong NG and Mohamed Saifulamri OMAR |
| 157 | Withdraw |
| 319 | Improvement of Student's Patent Acquisition Competency and Intellectual Property Education
Senshu Yoshii |
| 292 | New Curriculum Incorporating Cluster-Based, Project-Driven Approach to Teaching Computer Science Fundamental Skills
S. Sathish, S. P. Tan, A. Tan and E. Nalaka |



Parallel Sessions Allocations

19 September 2018 Day 2 **Parallel Session 2 (3:25 pm - 5:00 pm)**

Facilitator: Dr Florence MOK **Conference Hall 1+2**
Multidisciplinary Collaborations

Paper ID *Paper Title*

- | | |
|-----|--|
| 364 | The Collaborative Interactions between NIT, Kure, Japan and Radford College, Australia
Yuko Uesugi and Dianne Fitzpatrick |
| 148 | Enabling development of innovation competences by multidisciplinary learning environments
M. Keinänen, L.E. Kairisto-Mertanen and T. Konst |
| 267 | The Practice of International Maritime English Education in the Classes
Jongdoc Park, Min-Hung Chou, Seiji Shimizu and Osami Yanagisawa |
| 265 | Digital Information Fluency for the Future Workplace: A Collaborative, Integrative Disciplinary Approach
C. Pang, M. Goh, A. Liew and H. H. Kheak |
| 303 | Game on the spherical surface
Nobuyuki Sochi |
| 314 | Industrial Engagement in Engineering Education to Nurture Smart People
Tommy H. Y. Cheung, Billy M. H. Chow and Frankie Y. C. Leung |

Facilitator: Dr Adriana Piccinini HIGASHINO **Conference Hall 3**
International Connectivity

Paper ID *Paper Title*

- | | |
|-----|---|
| 192 | Culture as a Tool for Internationalization: Hands-on International workshop
A. P. Higashino |
| 196 | Teacher and Student Exchanges with Universities in the US and Southeast Asia
K. Sekine |
| 213 | France-Japan Exchange Program for Global Technology Education
K. Haddadi, A. Cailler and V. Buquet |
| 317 | Can Japanese Extracurricular Activities Improve Engineering Students' Generic Skills? - A Case Study of a Swimming Club at Nagaoka KOSEN (Uitemate Project)
Y. Ominato |
| 308 | A case study of cross-border exchange programme in environmental protection education
NGAI, K. P. |
| 373 | Production of Solar Car by Student Project
S. Watanabe, M. Furukawa and K. Ohsawa |

Facilitator: Mr KWAN Ka Ho **Conference Hall 4**
Technology Enhanced Learning

Paper ID *Paper Title*

- | | |
|-----|---|
| 162 | Method of making video for flip teaching and its educational effect
Shinichiro Oke |
| 257 | Building Your Own Rapid eLearning Authoring Tool
TSE Kwok Keung |
| 277 | Enhancing learning in Pharmaceutical Care Services with an e-learning platform
MOK, P. H. K. and CHEUNG, K. C. |
| 216 | Basic information security education by flip teaching
H. Hamada, R. Ohura and R. Maeda |
| 376 | A Pilot Study of Measuring the Effectiveness of Blended Learning
Kelvin Loo, Christin Hu, Choi Kuan Meng and Simon Chang |
| 354 | The Integration of Mind Maps and Flowcharts in Undergraduate Teaching
Kleddao Satcharoen |



Parallel Sessions Allocations

19 September 2018 Day 2 **Parallel Session 2 (3:25 pm - 5:00 pm)**

Facilitator: Dr Narisara THONGBOONCHOO
Innovative Learning and Teaching

Conference Hall 5

Paper ID Paper Title

350	An Outline and Overview on Experiential Learning Activities for Enhancing Students' English for Learning STEM Raymond C. S. Man and K. C. Wong
143	Self-Monitoring Training Practices for Reading English Aloud and the Educational Effects Mariko Okuzaki and Masaya Narumi
375	Teaching Ethical Reasoning to Engineering Students S. M. Cheah and H. B. Lee
163	Using Sentence Diagramming to Teach Complex Sentence Structures to Non-Native English Speakers Studying Engineering Richard Grumbine
174	Deepening Business Communication Skills for a 21 st Century Workplace Ruth SONG, Henry KOH, Parwinder KAUR, Danny TAN, Vivian KOH and Cindy LIM
369	STEM Co-Learning Brings Cross-generation Learning A. Kong and T. C. Fu

Facilitator: Ms TAN Soon Keow
Innovative Learning and Teaching

Conference Hall 6

Paper ID Paper Title

285	Enhance Programming Competencies Using Team-Based Learning Supported With Online Collaborative Learning S. K. TAN and S. F. TAY
330	Gamification package for teaching and learning using game-based and story-based approach H. L. Woo, P. C. Leo Leung, S. Y. Tony Chan and H. P. Joseph Leung
384	The Attempt to Apply Literal Texts as Teaching Materials of Active Learning for Communication and Culture Subjects: The Case of The Representations of the regions in Japan Akio Kikuchi
293	Actualizing an Applicative, Dynamic and Authentic Summative Assessment Using a Hybrid Model of an Insights-Driven Datathon for IT Students Sow. Samantha
321	Factory Classroom: An educational tool for nurturing scientific fact for food technology Pimpen Pornchaloempong, Kitdakorn Klomkarn and Pitikhate Sooraksa
310	Science Laboratory Activities for English Language Learners Megumi HARA

Facilitator: Mr Louis NG
Innovative Learning and Teaching

Conference Hall 7

Paper ID Paper Title

235	Student Centred Approach to Teaching Classical Mechanics Louis NG
209	A Report on Open Courses in Mathematics for Junior High School Students Assisted by Upper-class Students at NIT, Kurume College K. Kawashima, Y. Matsuda, M. Okita, M. Sakai and T. Tanaka
386	From Business Academy to Business and Engineering Academy Jaana Kallio-Gerlander and Anne Norström
282	Innovative Use of Exit Tickets in Engaging Computer Programming Students in Reflective Learning and Supporting Tutor in Diagnostic Teaching Geok Ling Tan
345	An application of the process of mathematical modeling to the model core curriculum K. Okumura and Y. Furihata
278	Development of STEM workshop – DNA extraction from human cheek cells using design thinking approach CHAK, C. K. (C. P.), LO, T. S., LI, K. C., LI, K. S., NG, T. F., WONG, T. Y. and YEUNG, M. L.



Parallel Sessions Allocations

20 September 2018 Day 3 **Parallel Session 3 (10:20 am - 11:55 am)**

Facilitator: Ms Ciny LAU **Conference Hall 1+2**
Innovative Learning and Teaching + Technology Enhanced Learning

Paper ID Paper Title

- | | |
|-----|--|
| 333 | Fostering 'professional leaders' with international competency through the 'GECEP': An attempt by the National Institute of Technology, Nara College
Yoshiaki Matsui and Kazuhiro Itakura |
| 154 | Development of Neural Network Experiment Using Food Texture Estimation
S. Kato and N. Wada |
| 339 | Introducing artificial intelligence for cybersecurity through project-based learning
Peter Leong and Calvin Siak |
| 185 | Development and practice of an experimental kit for the "in-situ experiment" in electronic circuit related classes
N. Tokui, S. Seto, T. Kanmachi and Y. Morita |
| 280 | Using Gamification to Engage Students for Effective Learning in Programming
E. Kwok and J. Chui |
| 322 | Effect of Security Education using Gamification
N. Tansho, Y. Takeichi, K. Yajima and J. Sato |

Facilitator: Dr Susumu NAKAMURA **Conference Hall 3**
International Connectivity

Paper ID Paper Title

- | | |
|-----|---|
| 367 | International Cooperative Engineering Education Between Japanese and Mongolian KOSENs in Electrical and Electronic Engineering
Susumu Nakamura, Masaaki Yoshida and Takanobu Maeda |
| 228 | A knowledge-capture report on lecturers' specification of National Institution of Technology (NIT) Japan
Phiyapa Sirivedin, Matsumoto Tsutomu, Ratchaphon Umsuk, Wajinee Jongjit and Sarocha Buresri |
| 181 | Improving Critical Thinking and Media Awareness Through CLIL
REVIS, Curtis and AMANAI, Kazuhito |
| 298 | Fostering Practical and Global Engineers by Partnerships with the Regional Community
Y. Suda, T. Nishizawa, S. Seto, K. Hatta and K. Dochi |
| 380 | A cross cultural learning experience from urban farming
Sharmila Kanna, Jason Lim and Julia Lee |
| 337 | Global Education based on International Exchange in NITKIT
Masahiro Wakiyama, Akira Miyamoto, Yukiharu Yamauchi, Yasunobu Hitaka and Naruki Shirahama |

Facilitator: Mr HUNG Kin Ho **Conference Hall 4**
Technology Enhanced Learning

Paper ID Paper Title

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|-----|--|
| 142 | The Key Factors of Consideration when Introducing Public Instant Messaging in Higher Education
Benson K. H. Hung |
| 249 | Overview of start-up activities within the network-based educational framework of the "KOSEN Space Academia"
T. Takada, J. Nakaya, Y. Kajimura, M. Tokumitsu and K. Kitamura |
| 275 | Quality Dimensions and Strategies of Mobile Learning
Jason Chui, Leow Zhen Zhen and Cally Ng Hwee Tse |
| 283 | Teaching Artificial Intelligence in Vocational and Professional Education and Training
T. C. Fu and Will Kwok |
| 334 | Proposal for Reducing Pattern Position Alignment Error of a Simplified Photo Lithography Method for Education
S. Nagaoka, M. Yamamoto, T. Tsuji, T. Shimizu, R. W. Johnston, T. Shikama, F. Shimokawa and H. Horibe |
| 304 | Using a machine learning approach to evaluate the effectiveness of LearningANTS on students' learning
Soh Ying Ying, Edna Chan and Fedor Duzhin |



Parallel Sessions Allocations

20 September 2018 Day 3 **Parallel Session 3 (10:20 am - 11:55 am)**

Facilitator: Dr WONG Kin Ming **Conference Hall 5**
Innovative Learning and Teaching

<i>Paper ID</i>	<i>Paper Title</i>
311	A Pilot Study of Massive Open Online Courses (MOOCs) for Engineering Students in Hong Kong K. M. WONG, K. H. HUNG and W. H. LO
218	Self-Regulated Learning towards Comprehensible Speech in Foreign Language Learners: A Systematic Survey of Literature H. Abe
363	Teaching and learning tools for the E-ducation in Mechanical Engineering I. C. Gruescu
217	On Positive Effects of Describing Procedures of Deriving Solutions for Problems Given in Mathematics Class by Dialog-style Michiharu SUZUKI
180	Transforming Polytechnic Engineering Education through PBL Pedagogy Chee Chin TNG
287	An attempt to use a physics experiment conducted by a fifth-grade Kosen student for lower-grade students by employing learning materials on electronic devices N. Kakuda and T. Kobayashi

Facilitator: Dr Roger NG **Conference Hall 6**
Innovative Learning and Teaching

<i>Paper ID</i>	<i>Paper Title</i>
340	Application of Project-Based Learning to Smart Building Engineering Education – A Case Sharing Roger T. H. Ng, Ivan C. H. Cheng and Anthony S. S. Lai
356	An Approach to Encourage All KOSEN in Japan to Use the Evaluation Indicators of Achievement in Engineering Experiments K. Takamura, S. Mitsui, S. Kano and J. Kobayashi
388	How to educate better engineers? J. Kontio
299	How do we make students learn engineering? The importance of organization of classes by capacity according to the characteristics of students Takahiro Niwa, Yoshimichi Nakamura, Akio Kikuchi and Takahiro Wakasa
379	Evaluating effectiveness of interventions to improve students' learning in Engineering Mathematics P. E. Janice Lim and H. H. Wilbur Tan

Facilitator: Dr Takashi MATSUMOTO **Conference Hall 7**
Innovative Learning and Teaching

<i>Paper ID</i>	<i>Paper Title</i>
233	Progress of Visualization of Learning Outcomes with Competence - Annual Report 2017 Takashi Matsumoto, Minoru Komatsu, Koutarou Yamada, Nariyuki Kawabata and Kengo Oota
268	The development of 21 st century competences based on the implementation of active learning in the teaching of experimental sciences J. A. Sanchez-Marquez and A. Hudnall
246	Developing Competencies through Co-work and Tobitate Projects T. Hiraishi, J. C. Herbert, Y. Kajimura and S. Fujiwara
254	The Effect of In-class Educational Group Game (EGG) on Students' Learning Motivation and Academic Achievement Ng Yin Ni, Annie, Liew Rou Shen and Phoon Chee Wee
210	Linking Hands-on Experience in Teaching Technology Man-Ching Yuen, Shin Ying Chu, Wing Hong Chu, Hoi Shuen Cheng, Ho Lam Ng and Siu Pang Yuen
328	Color Ball Communication Experiment N. Harada



Parallel Sessions Allocations

20 September 2018 Day 3 **Parallel Session 4 (1:15 pm - 2:50 pm)**

Facilitator: Dr Naruki SHIRAHAMA **Conference Hall 1+2**
Multidisciplinary Collaborations + International Connectivity

Paper ID *Paper Title*

- | | |
|-----|---|
| 387 | An International Ideathon with the theme of ITS collaborating with industry
N. Shirahama and T. Fukuda |
| 286 | Does seeing mean learning when using technology-assisted aids? A pilot study to uncover learners' visualization patterns and cognitive processes with eye-tracking and interview protocol to investigate multiple representations in Chemistry
Poh Nguk Lau, Sarah, J. R. Hansen and John B. Black |
| 315 | Mirror images on the surface of the water
Nobuyuki Sochi |
| 346 | Study on the effectiveness of mini-aquaponics STEM workshop on enhancing students' STEM career attitude and aquaponics knowledge
Carmen P. Y. Wong |
| 358 | Multi-disciplinary Overseas Internship Program in China Radio International
Kenichi Ohya |
| 236 | Lessons from the tradition - Japan maritime college (Kosen) students experience Polynesian traditional voyaging through global partnership
T. Homae, T. Oku, D. Chun, K. I. Chun, B. T. Yamamoto, N. Hashizume, T. Murakami, K. Ishida and M. Endo |
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Facilitator: Mr Todd COOPER **Conference Hall 3**
Technology Enhanced Learning

Paper ID *Paper Title*

- | | |
|-----|--|
| 366 | Making the Virtual Speech Judge 2.0: Voice Audio Wave and Facial Expression Analyzing Software
T. D. Cooper, Akira Tsukada and Nobuyuki Gomi |
| 169 | Virtual Optometrist - Engaging Optometry Students through Game Based Learning
E. T. Chua, S. M. Yang and Z. Y. Bao |
| 306 | Virtual Reality Assisted in Arboriculture Training
HO, C. K. C., LEUNG, A. C. T. and AU, H. L. |
| 274 | An Educational Tool Designed to Deliver a Virtual World in order to Observe Cosmic Rays on Earth
I. Takemoto, H. Tenzou, Y. Komatsu, K. Yokoyama, A. Nagoshi, Y. Kunimi and T. Miyatake |
| 368 | Virtual Reality Simulation as Human Body Learning Tool
Poon W K, Leung Kate, Chan W M Jennifer and Lau Y C Belle |
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Facilitator: Dr LEE Kim Kheng **Conference Hall 4**
Technology Enhanced Learning

Paper ID *Paper Title*

- | | |
|-----|---|
| 211 | Learning Stuttering with no Borders: Sharing Experience Together
Shin Ying Chu, Grace McConnell and Man-Ching Yuen |
| 214 | Withdraw |
| 221 | Practicing Effective Classroom Management Using Yammer in Office 365®
Eikoh Chida |
| 251 | Inspiring young people to learn about the latest healthcare technologies and practice through HealthTech Centre
KONG, J. C. F. and CHEUNG, K. C. |
| 240 | In-class e-Testing of statistics in a large cohort of diverse ability
I. S. Weir, D. Rh. Gwynllyw and K. L. Henderson |



Parallel Sessions Allocations

20 September 2018 Day 3 **Parallel Session 4 (1:15 pm - 2:50 pm)**

Facilitator: Mr Sunny MAK

Conference Hall 5

Innovative Learning and Teaching

Paper ID Paper Title

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|-----|---|
| 385 | Analysis on the effectiveness of raising secondary students' energy saving awareness through activity-based learning
W. W. Kwan, T. W. NG, K. S. Fung, P. W. Tam, K. C. Lam and A. C. H. Leung |
| 272 | Effect of Preparation Work for Manufacturing Project on International Exchange Activities
T. Kato and Y. Shimada |
| 359 | Implementation and Evaluation of the Flipped Classroom Approach in Engineering Education
B. Drew |
| 351 | Introduction of some approaches for educations of robot design and manufacturing
T. Matsuo, M. Tatsuguchi, T. Higaki, S. Kuchii, M. Shimazu and H. Terai |
| 365 | Hackathon to Develop Students' Generic Skills and Competencies in KOSEN
H. Aburatani, H. Ayano, H. Fukuoka, K. Hoshino, S. Kano, R. Kimura, R. Komura, Y. Matsumoto, M. Morimoto, K. Moriya, K. Noguchi, N. Uehara, K. Yajima and J. Kobayashi |

Facilitator: Dr Janne ROSLOF

Conference Hall 6

Innovative Learning and Teaching

Paper ID Paper Title

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|-----|--|
| 313 | Students' Participation in Degree Program-Level Quality Assurance Activities
Janne Roslöf |
| 250 | Programme Specific Community Engagement to Enhance Vocational Education – Way of Success
WU, W. W. S. and MOK, F. P. S. |
| 165 | Growth Characteristics of Generic Skills of Students of National Institute of Technology, Sendai College and a Proposal of an Evaluation Method of Generic Skills
K. Kawasaki, K. Yajima and A. Takahashi |
| 383 | Withdraw |
| 284 | Nurturing Engineers for IoT: Next-Generation Education Program of KOSEN by a Virtual Workshop
T. Ichimura, N. Hirakoso, N. Sasaki and S. Tsurumi |
| 271 | Educational Effects of the Vanguard Engineering Program Developing the Next Generation of Global Leaders
S. Akazawa, T. Iyama, N. Fukuda, Y. Ominato, O. Youda, K. Ichimura, I. Ishizaka, Y. Murakami and S. Toyama |

Facilitator: Dr Tony HALIM

Conference Hall 7

Innovative Learning and Teaching

Paper ID Paper Title

- | | |
|-----|--|
| 297 | Using peer feedback to enhance the quality of peer-teaching notes in a Problem-based Learning engineering subject: An exploratory study
May Lin WEE |
| 231 | Development of Effective Framework for Social Implementation PBL Education Focusing on Practical and Agile Prototyping Process
S. Tarao, T. Ohtsuka, H. Tsutsumi, T. Ichinohe, Y. Fujiwara and N. Tsuda |
| 329 | New Energy New Generation (NENG): Success in Learning with Science, Technology, Engineering, and Mathematics (STEM) Project-Based Learning (PBL) Workshops
WONG Shek Ho, Tony, CHEUNG Ho Yeung, Tommy and CHOW Man Hon, Billy |
| 349 | Sustaining Student Interest in Business Statistics Using ICT-enhanced, Application-Based Blended Learning Approach
Eddie YEOU, PUAR Leong Sing and Alan FONG |
| 156 | KOSEN Security Educational Community (K-SEC) and Related Activities in Tomakomai College
Shigeo DOI and Takuya MUKOHIRA |
| 160 | Spatial exploration, the new social service program of Guanajuato University
Gonzalo Enrique Bernal Rivas |