

ISATE 2024 Day 1 (September 24, 2024: Tuesday)

| Session 1 | Track 1(ST1) | Track 2(ST2) | Track 3(ST2) | Track 4(ST3) | Track 5(ST3) | Track 6(ST3) |
|----------------------|--|---|---|---|---|--|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12301 |
| Chair (SP) | Jasmine TAN | Boon Yuen TAN | Heok Foon TAN | Bee Lee LOW | Yanzo PANG | Zhengping LIOU |
| Time: 1400 – 1530 | Paper ID: JP_17 Practice Report on Continuous Assignments using Reading Progress on Microsoft Teams <i>Kanako ENDO</i> NIT Yonago College, Japan | Paper ID: RP_08 Effects of Immersion, Interaction and Imagination on Students' Acceptance of Hololens Mixed Reality for Learning Autonomy <i>W. XU, S. HAMIMAH and D. KWOK</i> Republic Polytechnic Singapore | Paper ID: NYP_02 An Examination of the Impact of Peer Collaboration on Student Motivation during Asynchronous Lesson <i>Wendy TAN</i> Nanyang Polytechnic <i>Janaki SHAH</i> Republic Polytechnic, Singapore | Paper ID: FI_01 Curricula reform process and experiences <i>Juha KONTIO and Mari KETOLA</i> Turku University of Applied Sciences, Finland | Paper ID: SP_26 Evaluation of Sustainable Development in Diploma in Chemical Engineering using CDIO <i>Katerina YANG, Yunyi WONG and Ai Ye OH</i> Singapore Polytechnic, Singapore | Paper ID: RP_06 Assessing Students' Perceptions of a Curriculum Enhanced with Universal Design for Learning (UDL) and its Influence on Their Situational Interest and Self-Efficacy <i>A. LEE, J. HO, C.K. KIU and D. KWOK</i> Republic Polytechnic, Singapore |
| | Paper ID: RP_09 GenAI Chatbot-assisted Learning: Impact on Students' Motivation, Critical Thinking and Problem-Solving <i>Y. ZHENG, B. W. TAN and D. KWOK</i> Republic Polytechnic Singapore | Paper ID: JP_05 Using Kahoot and CLIL to Increase Student Engagement <i>Curtis REVIS</i> NIT Tokuyama College, Japan | Paper ID: JP_10 Education and Research in Data Science for the Realization of Hydrogen Society <i>K. ENDO, T. ITAYA</i> NIT Suzuka College, Japan <i>Y. SATO</i> NIT Toyota College, Japan <i>H. NISHIGUCHI</i> NIT Sasebo College, Japan | Paper ID: SP_10 Studying the Impact of PracticeMe in Improving Students' Programming Skills <i>Kenneth TAN and Elynn CHEE</i> Singapore Polytechnic, Singapore | Paper ID: JP_13 Implementation of Engineering Classes Incorporating Career and Financial Elements to Promote Self-Investments and Their Educational Effects <i>Naoki KAKUDA</i> NIT Yonago College, Japan | Paper ID: SP_02 A Stitch In Time Saves Nine: Harnessing Early Insights To Scaffold Self-Directed Learning With Social Support And Self-Regulated Learning <i>Zhengping LIOU</i> Singapore Polytechnic, Singapore |
| | Paper ID: JP_18 Measuring Learning Effect on English Composition by an English Application with AI Automatic Correction <i>Y. SHIMURA, D. MARSH, C. GRADY and N. IWASAKI</i> NIT Wakayama College, Japan | Paper ID: TP_12 Comparison of VR and Tablet based Intuitive 3D Design Tools for Conceptual Form Development of Student Projects: Initial Findings from a Built Environment Course Pilot Study in Singapore <i>Juniarto HADIATMADJA</i> Temasek Polytechnic, Singapore | Paper ID: NP_03 Students' Perception of Flipped Learning at Ngee Ann Polytechnic <i>Paul NG and Hui Leng TAN</i> Ngee Ann Polytechnic, Singapore | Paper ID: SP_01 Improve Teamwork in Final Year Projects through SCRUM Framework <i>Teck June HO, Cheek Meng TAN and Zixuan QIU</i> Singapore Polytechnic, Singapore | Paper ID: NYP_08 Learning Experience Design (LXD) for Learner Engagement <i>F. TEOH, A. NG, C.H. MIIN, C. PANG, T. LIM, K. TAN, S. GOH and E. FOO</i> Nanyang Polytechnic, Singapore | Paper ID: VTC_01 Enhancing Academic Performance and Psychological Well-being through Sound Vibration Reading: An Experimental Study <i>X. XU</i> Tsinghua University, Beijing, China <i>L. YAN</i> Tsinghua University High School, Beijing, China <i>M.H. CHOW and S.S. LAI</i> Hong Kong Institute of Vocational Education, HK SAR |

| Session 1 | Track 1(ST1) | Track 2(ST2) | Track 3(ST2) | Track 4(ST3) | Track 5(ST3) | Track 6(ST3) |
|----------------------|---|--|--|--|---|--|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12301 |
| Chair (SP) | Jasmine TAN | Boon Yuen TAN | Heok Foon TAN | Bee Lee LOW | Yanzo PANG | Zhengping LIOW |
| Time: 1400 – 1530 | Paper ID: NYP_01 Evaluating Ethical Dimensions in AI-driven Educational Assessments: A Framework Analysis <i>Tristan LIM</i> Nanyang Polytechnic, Singapore | Paper ID: JP_08 Development and Practice of Mathematics Teaching Materials for Early STEAM Education of Junior High School Students using Tiling <i>M. SAKAI</i> NIT Kurume College, Japan <i>T. TANAKA</i> Gifu University, Japan | Paper ID: JP_14 Improving Global Citizenship Skills through Kosen Global Camp <i>T. SHIMIZU,</i> <i>Y. MATSUMOTO,</i> <i>S. MORIKAMI and</i> <i>T. YOSHIOKA</i> NIT Toyota College, Japan | Paper ID: NYP_07 Impact of Peer-led Simulation on Learning Experiences in Post-Registration Nursing Students <i>F. HUANG, K. THAM and</i> <i>E. KWAN</i> Nanyang Polytechnic, Singapore | Paper ID: VTC_07 AI TutorHub: A System for Special Education Needs in Post-Secondary Study <i>W.H. CHIU, K.M. Nanoka TSE,</i> <i>K.H. CHEUNG, Y.K. YAN and</i> <i>L.C. Jesse SHUM</i> Hong Kong Institute of Vocational Education, Hong Kong, SAR, China <i>Y.K. YAN</i> University of Sunderland in Hong Kong, Hong Kong, SAR, China | Paper ID: JP_15 Effective Method of Teaching Basic Management Skills using Analog Business Games <i>T. KANEKO</i> NIT Tomakomai College, Japan <i>R. HAMADA</i> NIT Asahikawa College, Japan |

ST1: Artificial Intelligence in Teaching & Learning

ST2: Technology in Education

ST3: Pedagogical Innovation in Teaching & Learning

ST4: Stakeholder Engagement in Education

ISATE 2024 Day 1 (September 24, 2024: Tuesday)

| Session 2 | Track 1(ST1) | Track 2(ST2) | Track 3(ST3) | Track 4(ST3) | Track 5(ST3) | Track 6(ST4) |
|----------------------|---|--|--|---|--|---|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12304 |
| Chair (SP) | Jasmine Tan | Boon Yuen TAN | Heok FOON TAN | Bee Lee LOW | Yanzo PANG | Zhengping LIOU |
| Time: 1600 – 1730 | Paper ID: SP_11 AskWhatCher? A Gen AI Adaptive Learning Assistant to Enhance Self Directedness <i>Jasmine TAN, Adeline KOH, Janny CHAN, Joe YANG and Mark WAN</i> Singapore Polytechnic, Singapore | Paper ID: SP_16 Unlocking The Digital Footprints of Self-Directed Learners: Insights From A Multimodal Study <i>Boon Yuen TAN</i> Singapore Polytechnic, Singapore | Paper ID: VTC_05 Motivation and support of Students in Projects on Construction Industry Digitalisation <i>Yuen Fai, Augustus LEE</i> Hong Kong Institute of Vocational Education, Hong Kong, SAR, China | Paper ID: NYP_10 Impact on Self-Regulation and Academic Performance <i>Lilian, Qiau He HUANG</i> Nanyang Polytechnic, Singapore | Paper ID: RP_07 Examination of impact of interactions in asynchronous learning on learners' perceived learning and learning satisfaction <i>H. Y. LOKE, W. XU and W. C. LEE</i> Republic Polytechnic, Singapore | Paper ID: JP_24 A New Collaboration System for Research, Education and Enrollment in Graduate School of Hiroshima University from Advanced Kure Kosen College <i>N. YORINO, J. MASE, M. YOKONUMA, Y. KUNIYASU, Y. KAMOCHI, Y. ZOKA</i> NIT Kure College, Japan <i>Y. SASAKI</i> Hiroshima University, Japan |
| | Paper ID: TP_03 AI for Personalized Learning Support for Students in Engineering: A Joint-Polytechnic Collaboration Project <i>Kannurao Sudhaa, Kwan Eng Enga, Calaiselvya</i> Temasek Polytechnic <i>Soon Hock Wei</i> Ngee Ann Polytechnic <i>Udayakumar, T, Shanbhag Narayan</i> Republic Polytechnic, Singapore | Paper ID: JP_20 Development of robot control security educational materials using virtualization technology <i>K. KAWAI, S. YAMADA, Y. YAMAGUCHI</i> NIT Ishikawa College, Japan <i>T. KAERIYAMA</i> NIT Kisarazu College, Japan | Paper ID: JP_19 How can we serve our International Students Better? Results from Preliminary Data Collection <i>A. OTSU and S. HAMAMOTO</i> NIT Ibaraki College, Japan | Paper ID: JP_34 Establishing Automated Attendance Checking Systems through Project-Based Learning in KOSEN-KMITL <i>Saung Hnin Pwint Oo, T. PAWASOPON, P. TANGSUKNIRUNDORN, T. KEATSAMARN, K. SRITHANASARN, Su Wai Myo, S.SHAH, H. KOBAYASHI, M. KOBAYASHI and Y. YOSHIKAWA</i> KOSEN-KMITL, Thailand | Paper ID: VTC_09 The experience in teaching and learning through investigating the perceptions and attitudes towards generative AI among dispensers and students from Higher Diploma in dispensing studies in Hong Kong <i>W.S. Cheung and W.Y. Lee</i> Vocational Training Council, Hong Kong, SAR, China | Paper ID: NYP_05 Effectiveness Of Internships In Improving Lifeskills From The Perspective Of The Business Management Learner And The Employer <i>Lih Han KHOO</i> Nanyang Polytechnic, Singapore |

| Session 2 | Track 1(ST1) | Track 2(ST2) | Track 3(ST3) | Track 4(ST3) | Track 5(ST3) | Track 6(ST4) |
|----------------------|--|--|---|--|--|---|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12304 |
| Chair (SP) | Jasmine Tan | Boon Yuen TAN | Heok FOON TAN | Bee Lee LOW | Yanzo PANG | Zhengping LIOW |
| Time: 1600 – 1730 | Paper ID: NYP_04 Enhancing Online Learning With Text Transcription And Summarization: An Evaluation Of Reliability And Validity <i>Noi Sian KOH</i> Nanyang Polytechnic, Singapore | Paper ID: RP_10 Examining learners' experiences of microlearning-supported flipped learning in higher education through Gagne's nine events of instruction <i>U. Maniar and J. Periasamy</i> Republic Polytechnic, Singapore | Paper ID: JP_22 The Tearoom Project: A Portable Tearoom to Promote Interest in Traditional Architecture and Craftsmanship <i>A.P. HIGASHINO</i> NIT Akashi College, Japan | Paper ID: VTC_06 Incorporating Generative Artificial Intelligence (GenAI) into Education Pedagogy for Enhancing Student Engagement and Creativity in Hong Kong Vocational Education <i>W.T. LAU</i> Hong Kong Institute of Information Technology, Hong Kong, SAR, China | Paper ID: JP_35 Developing English Skills for Communication through Interactions with Community-based Organization <i>S. SUZUKI</i> NIT Tomakomai College, Japan | Paper ID: JP_56 Collaborative Learning with Companies in KOSEN-KMITL <i>A. SAKONKANAPONG, T. LUCKANAWAT, S. TEEWCHIM</i> KOSEN-MITL, Thailand <i>T. YAMAMOTO, and S. KANO</i> NIT, Japan |
| | Paper ID: RP_01 Predictive analysis of student academic performance at module level with machine learning algorithms <i>S. CHUA and M. Gujral</i> Republic Polytechnic, Singapore | Paper ID: JP_25 PBL-based AI Education Program with Board Games <i>S. HAYASHI, J. TOMATSU, and K. TAJIMA</i> NIT Gifu College, Japan | Paper ID: NYP_11 Exploring Educators' Perspectives on Using Storification as a Pedagogical Tool <i>Kenneth TAN</i> Nanyang Polytechnic, Singapore | Paper ID: TP_11 Transcending Barriers: Student Learning through Multidisciplinary Projects <i>Kumbar Shankarappa and Raja Rangaswamy</i> Temasek Polytechnic, Singapore | Paper ID: VTC_12 The Pursuit of User-Friendliness: The development of a Generative Artificial intelligence Chatbot for Learning Outcome-based Teaching and Learning Approach <i>Y. LUN and R.Y.S. LAM</i> Vocational Training Council, Hong Kong, SAR, China | Paper ID: SP_27 Harnessing Faculty Learning Communities for Professional Development: An Implementation Model for CDIO Standard 10 <i>Geok Ling SOO-NG, Zhengping LIOW, Mun Kin LEONG and Yiat Yam LEONG</i> Singapore Polytechnic, Singapore |

ST1: Artificial Intelligence in Teaching & Learning

ST2: Technology in Education

ST3: Pedagogical Innovation in Teaching & Learning

ST4: Stakeholder Engagement in Education

ISATE 2024 Day 2 (September 25, 2024: Wednesday)

| Session 3 | Track 1(ST1) | Track 2(ST2) | Track 3(ST2) | Track 4(ST3) | Track 5(ST3) | Track 6(ST4) |
|----------------------|---|--|---|---|--|--|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12304 |
| Chair (SP) | Foong Meng THAM | Denis TONG | Clarice SIM | Janny CHAN | Li Cheong CHIN | Siew Kuan LIM |
| Time: 1400 – 1530 | Paper ID: VTC_08 Exploring the Role of ChatGPT in Enhancing Efficiency in Project-Based Learning Facilitation for VPET <i>Y.H. KWOK, F. KO</i> Hong Kong Institute of Information Technology, Hong Kong, SAR, China <i>K.P.A. WONG</i> Vocational Training Council, Hong Kong, SAR, China | Paper ID: JP_29 An Interactive Learning Material based on the Data Hiding Techniques on Printed Matters <i>Tetsuya KOJIMA, and Shinya SUZUKI</i> NIT Tokyo College, Japan <i>Run KAWADA</i> teamLab Inc., Tokyo, Japan | Paper ID: SP_06 Video ClickStream Insights: Understanding Students' Video Watching Habits for Better Engagement <i>Say Beng LAI, Li Cheong CHIN, Nam Chew CHUA, Alvin NG, and Charlotte POH</i> Singapore Polytechnic, Singapore | Paper ID: JP_07 Global Workshop for Youth Education for Climate Change Related Innovations <i>Y. GHEZELLOO, Y. MIZUNO</i> NIT Akashi College, Japan <i>S. FUJIWARA</i> NIT HQ, Japan | Paper ID: JP_64 Effectiveness of Mobile-Assisted Language Learning in English Education <i>N. MAHARJAN, E. NOBUHIRO, Y. OMINATO, Y. TSUCHIDA, and K. ICHIMURA</i> NIT Nagaoka College, Japan | Paper ID: JP_32 Theme-finding Internship Program for Future Intrapreneurs from Small Companies <i>M. TAFU, R. MTOBA, H. HASEGAWA, K. YAMAMOTO</i> NIT Toyama College, Japan <i>J. NISHIDA</i> Office Nishida LLC, Tokyo, Japan |
| | Paper ID: TP_02 Learning Machine Learning: Using Generative AI Interaction to Help Focus on Conceptual Understanding <i>R.Q. GOH</i> Temasek Polytechnic, Singapore | Paper ID: SP_03 Designing a Digital Twin Virtual Lab for the Module: PLC Applications – A Pilot Run <i>Chew Lin CHIA and Rick CHUA</i> Singapore Polytechnic, Singapore | Paper ID: JP_43 Development of programming education support materials using IoT <i>Y. BANDO</i> NIT, Kure College, Japan <i>A. MIZUMOTO</i> JFE Plant Engineering Co., Ltd, Kurashiki, Japan | Paper ID: SP_23 How a Generative AI Powered Customised Chatbot can Enhance the Student Learning Experience: An Action Research Project in EEE <i>Kyaw Kyaw PHYOE, Joo Gee LIM, Mark Wan Chi Ming and Siew Kee CHONG</i> Singapore Polytechnic, Singapore | Paper ID: RP_02 Exploration of factors affecting course outcomes in e-learning for CET full qualification diploma programmes <i>S. Teng and K. Y. Teh</i> Republic Polytechnic, Singapore | Paper ID: NP_01 Flipped Learning for 2 Business Modules at Ngee Ann Polytechnic <i>Grace FANG and Mei Lai LEONG</i> Ngee Ann Polytechnic, Singapore |
| | Paper ID: SP_19 Impact of Introducing Generative AI (GAI) Tools on Student Confidence in Writing and In use of GAI Tools: A Preliminary Study <i>Foong Meng THAM, Bryan Yang Guang LEE and Thurgadevi Kalayperumal Chettiar</i> Singapore Polytechnic, Singapore | Paper ID: JP_31 The Role of UNITWIN Network for Engineering Education towards Sustainable Pathways: GIGAKU SDG Network <i>M. KATSUMI and O. TAKAHASHI</i> Nagaoka University of Technology, Japan | Paper ID: SP_14 Leveraging Learning Analytics in Chemistry Module: Insights from Pre-Class Assignment Score Analysis in BrightSpace LMS <i>Tiong Wei TAN, Chung Hou, CHAN, and Xi Kai WEE</i> Singapore Polytechnic, Singapore | Paper ID: JP_26 Project-based Learning to Raise Female Students' Competency Level: Educational Model for Capacity Building of Female Students <i>Yuko KAMOCHI and Kazunari MATSUNO</i> NIT Kure College, Japan | Paper ID: SP_12 Cultivating Authentic Learning in Cross-Cultural Education for Sustainable Development Through Learning Express <i>Harveen KAUR and Dione CHEN</i> Singapore Polytechnic, Singapore | Paper ID: JP_57 PBL Courses to Develop Project Implementation Ability <i>Thanapol LUCKANAWAT, Sanit TEEWCHIM, Arnon SAKONKANAPONG</i> KOSEN-KMITL, Thailand <i>Takahisa YAMAMOTO, Seiji KANO</i> NIT, Japan |

| Session 3 | Track 1(ST1) | Track 2(ST2) | Track 3(ST2) | Track 4(ST3) | Track 5(ST3) | Track 6(ST4) |
|----------------------|------------------|---|---|---|---|------------------|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12304 |
| Chair (SP) | Foong Meng THAM | Denis TONG | Clarice SIM | Janny CHAN | Li Cheong CHIN | Siew Kuan LIM |
| Time: 1400 – 1530 | Paper ID: | Paper ID: TP_13 Developing AI Algorithms for Major Project Presentation Scheduling L. WILLIAM Temasek Polytechnic, Singapore | Paper ID: JP_47 Switch Materials for Operating VR System to Achieve the Same Operation for Physical Disability and Able-bodies People K. KAGEYAMA, K. Suehisa , K. MORI , Y. TANGE NIT Maizuru College, Japan T. DODE Kyoto Prefectural Special Support School, Yosanoumi, Japan | Paper ID: JP_06 Development and Evaluation of Practice for Integrated CAD-CAE-CAM Education M. NAGAI, Y. NAKAMURA and T. ADACHI Toyohashi University of Technology, Japan | Paper ID: JP_28 Practice of STEAM Education using LED Illuminations Hiroki MOMONO, Mitsuru MATSUMOTO and Takashi YAMAWAKI NIT Yonago College, Japan | Paper ID: |

ST1: Artificial Intelligence in Teaching & Learning

ST2: Technology in Education

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ISATE 2024 Day 2 (September 25, 2024: Wednesday)

| Session 4 | Track 1(ST1) | Track 2(ST2) | Track 3(ST3) | Track 4(ST3) | Track 5(ST3) | Track 6(ST4) |
|----------------------|--|---|--|--|---|--|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12304 |
| Chair (SP) | Foong Meng THAM | Denis TONG | Clarice SIM | Janny CHAN | Li Chin CHEONG | Siew Kuan LIM |
| Time: 1600 – 1730 | Paper ID: TP_05 Transforming Education: Exploring the Impact of AI Chatbots on Personalised Learning Outcomes <i>G.L. TAN, Calaiselvy and H.S. TAN</i> Temasek Polytechnic, Singapore | Paper ID: VTC_04 Empower Sustainable Learning: Integrating Moodle and Digital Assessments for Enhanced Learning Experience <i>Hiu Kwan, Kimberley, TSE</i> Vocational Training Council, Hong Kong, SAR, China | Paper ID: JP_71 A Case Study of the Guidance for Experiment with “Interactive Experiment Notebook” (V) – Trial of Confirmation Tests & Electronic Bulletin Board <i>Naohiro KOSHII</i> NIT Kurume College, Japan | Paper ID: SP_07 Effectiveness of Low-weightage Checkpoints on Encouraging Early Engagement in IT Project-Based Learning <i>Jeremiah ANG</i> Singapore Polytechnic, Singapore | Paper ID: TP_07 Bridging Theory and Practice Through Transformative Gamification: Harnessing Card Games for Education in Sustainability and Systems Thinking <i>Marta Alexandra Godinho Miguel</i> Temasek Polytechnic, Singapore | Paper ID: JP_46 Bridging Cultures and Engineering Minds: An International Exchange program in Hachinohe <i>Enke HAORIBAO, Yoshida MASAOKI, Akira MARUOKA, Akemi KUSAKARI, Kyoko NEJO, Akio KIKUCHI and Toru MAWATARI</i> NIT Hachinohe College, Japan |
| | Paper ID: SP_13 CRAFT: A Framework for Designing High-Quality Prompts for Generative AI <i>Yanto Jakop and Pei Chin LIM</i> Singapore Polytechnic, Singapore | Paper ID: JP_73 Report on Classroom Collaboration System <i>Miho TANIGAKI and Kazuhiro WAKO</i> NIT Sendai College, Japan | Paper ID: SP_05 Enhancing Student Learning with Pre-Assessment and Differentiated Instructional Strategies in Creative Modules <i>Clarice SIM and Lucas CHIAM</i> Singapore Polytechnic, Singapore | Paper ID: RP_03 Develop and validate a standardized test of computational thinking skills <i>C.S. Yap and A. Lim</i> Republic Polytechnic, Singapore | Paper ID: SP_08 Dialogues for a Sustainable Tomorrow: Cultivating Critical Thinking Using Socratic Pedagogy <i>June Wee and Li Mei CHAN</i> Singapore Polytechnic, Singapore | Paper ID: NP_09 Leveraging on Digital Twins as a Teaching and Learning Approach for Sustainable Facilities Management Practices in Ngee Ann Polytechnic <i>S. H. Teo</i> Ngee Ann Polytechnic, Singapore |
| | Paper ID: NP_10 “Gen AI-bling” Teaching & Learning @Ngee Ann Polytechnic (NP): Reflections and Learning <i>Hui Leng TAN, Ee-Lon LIM and Shirley WILLIAMS</i> Ngee Ann Polytechnic, Singapore | Paper ID: SP_17 The Effect of Data-enabled Flipped Learning in Year 1 Diploma in Optometry Curriculum <i>Kallakuri Sumasri, Teresa LEE and Li Li TAN</i> Singapore Polytechnic, Singapore | Paper ID: JP_72 Investigating the Effectiveness of STEAM Education based on Learning through the Integration of Different Fields <i>Chiyako ARAYA and Naoyuki FUJITA</i> NIT Nara College, Japan | Paper ID: NP_06 Project ID: Connecting the Dots – Developing Cognitive Flexibility and Integrative Thinking for a VUCA Workplace <i>Noorashikin Abdul Rahman, Evelyn NG Mui Kim and Kow Kok Sing</i> Ngee Ann Polytechnic, Singapore | Paper ID: JP_63 Sentence Diagramming: A Technique for Mastering Passive Voice in Academic and Scientific Writing <i>R. GRUMBINE</i> NIT Ariake College, Japan <i>S. FURUIKE</i> NIT Omuta College, Japan | Paper ID: JP_51 Development of Information Security Teaching Materials for Junior High School Students and Practice through Delivery Classes <i>Shigeo DOI, Sou TAKAHASHI, Maki TAKAGI, Saki MASAOKA, Syota MATSUDA, Sai SASAKI, Yoshihiko NAKAMURA</i> NIT Tomakomai College, Japan |

| Session 4 | Track 1(ST1) | Track 2(ST2) | Track 3(ST3) | Track 4(ST3) | Track 5(ST3) | Track 6(ST4) |
|----------------------|------------------|---|--|---|---|--|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12304 |
| Chair (SP) | Foong Meng THAM | Denis TONG | Clarice SIM | Janny CHAN | Li Chin CHEONG | Siew Kuan LIM |
| Time: 1600 – 1730 | Paper ID: | Paper ID: VTC_10 Enhancing Arboricultural Training with Virtual Reality Technology <i>FUNG Kim Yung, Terry, TANG Wing Sze, Kitty KEUNG Yim Mei, Amy and TO King Ting, Kelvin</i> Hong Kong Institute of Vocational Education, Hong Kong, SAR, China | Paper ID: NYP_12 Exploring the Correlation Between Team Teaching and Student Outcomes: A Quantitative Analysis of Students' Performance in Industry Certification Examinations and Students' Perceptions of the Team Teaching Approach <i>Faris FOO</i> Nanyang Polytechnic, Singapore | Paper ID: JP_76 What is KOSEN Students Learning in Physical Education Classes? [Based on a Survey] <i>K. SHIBAYAMA</i> International Pacific University, Okayama, Japan <i>H. TOMIOKA</i> Hiroshima University, Japan <i>R. HAMANAKA</i> Kyoto University of Advanced Science, Japan <i>H. OGAWA</i> NIT Hiroshima College, Japan | Paper ID: NP_08 Bridging Theory and Practice: Experiential Learning in Solar Photovoltaic Panel Optimization <i>Tam-Choi Mong Ping, Tan Boon Liong, Alex See and Tan GuangFan</i> Ngee Ann Polytechnic, Singapore | Paper ID: JP_81 Enhancing Disaster Preparedness Education through Cross Industry Collaboration: A Case Study from Post-GEJET Japan <i>Keunyoung PAK, Y. MATSUI</i> NIT Nara College, Japan <i>S. SEKI</i> Kinki University Technical College, Mie, Japan <i>P.J. WANNER</i> Tohoku University, Sendai, Japan |

ST1: Artificial Intelligence in Teaching & Learning

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ISATE 2024 Day 3 (September 26, 2024: Thursday)

| Session 5 | Track 1(ST1) | Track 2(ST2) | Track 3(ST2) | Track 4(ST3) | Track 5(ST3) | Track 6(ST3) |
|----------------------|---|---|---|---|---|---|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12301 |
| Chair (SP) | Geok Ling SOO-NG | Denis TONG | Heok Foo TAN | Janny CHAN | Li Chin CHEONG | Sukitha KUNASEGARAN |
| Time: 0900 – 1030 | Paper ID: JP_42 DESIGN OF AN EASILY REPRODUCIBLE AND SUSTAINABLE MACHINE LEARNING EXPERIMENT FOR THE KOSEN CURRICULUM <i>Eduardo CARABEZ and takanori SATO</i> NIT Akita College, Japan | Paper ID: JP_54 Development of Student Practice in Robot Teaching with AR <i>Takaya OZAKI, Takanori KOZAI, Tatsuo HASEGAWA and Takashi MATSUMOTO</i> NIT Anan College, Japan | Paper ID: SP_18 Piloting Data-Enabled Flipped Learning in a PWE Advanced Mathematics Module <i>Zhong Li</i> Singapore Polytechnic, Singapore | Paper ID: FI_02 Perspectives on Employee Experiences During Organizational Change <i>M. Ketola, and M. Keinänen</i> Turku University of Applied Sciences, Finland | Paper ID: JP_37 Qualitative Study of Learning-by-Teaching Program Staff's Self-Regulated Learning - A Case Study for Enhancing Learning-by-Teaching Program Course <i>J. SUZUKI, M. HATTORI, A. MINODA, and A. TAKAMI</i> NIT Matsue College, Japan | Paper ID: SP_20 From Thought to Action: The Reflective Path to Self-Directed Learning <i>Sukitha KUNASEGARAN</i> Singapore Polytechnic, Singapore |
| | Paper ID: SP_24 Transforming Learning Spaces: Designing the Classroom of the Future for Collaborative Learning <i>Geok Ling, SOO-NG and David TAY</i> Singapore Polytechnic, Singapore | Paper ID: NP_07 Enabling Collaborative Learning of Engineering Mathematics through the use of Smart Classroom <i>Ching Kwang LIM and Sunarto QUEK</i> Ngee Ann Polytechnic, Singapore | Paper ID: JP_75 Enhancing Architectural Design Education with Practical Knowledge through IT Collaboration <i>K. TSUZUKI and H. MAEDA</i> NIT Toyota College, Japan | Paper ID: OT_02 Apis magazine: the evolution of a learning motivation strategy at the Salamanca Highschool <i>Gonzalo E. BERNAL-RIVAS</i> University of Guanajuato, Salamanca, Mexico | Paper ID: TP_08 Exploring Student Profiles and Responses to GenAI-neutral Assignments: A Case Study in Engineering Mathematics <i>B. Li and J. LEE</i> Temasek Polytechnic, Singapore | Paper ID: JP_39 A Long Relationship brings a Synergistic Effect to Prompt Students to Join International Exchange Programs <i>Y. ICHIKAWA, K. EGUCHI, K. TSUZUKI AND T. MIURA</i> NIT Toyota College, Japan |
| | Paper ID: NYP_06 Use Of AI Tools In The Research Process Of Design Projects To Enhance The Learning Experience For Students <i>Ka Wai NG</i> Nanyang Polytechnic, Singapore | Paper ID: SP_15 As Easy as 1-2-3: Data-Enabled Flipped Learning for Engineering Students in Differentiated Instruction <i>Ying Wei LEONG</i> Singapore Polytechnic, Singapore | Paper ID: SP_28 Enhancing Learning through Analytics: Fostering Design Thinking in Polytechnic Education <i>Edwin SENG</i> Singapore Polytechnic, Singapore | Paper ID: RP_05 Developing self-directed learners using the PriME process framework <i>Cherry LIN and Pakirisamy, V</i> Republic Polytechnic, Singapore | Paper ID: JP_50 Entrepreneurship Education through Industry-Academic Collaboration at Gunma KOSEN and its Effectiveness <i>Satoshi NAKAJIMA, Kazuhiro SATO, Yoshiki KAGIYA, Shinji MORITA and Kiyokazu KIMURA</i> NIT Gunma College, Japan | Paper ID: NP_04 Server & Cloud Security – A Learner-Centred Approach with Industry in Curriculum <i>Lei SUN and Yoon Hin LIEW</i> Ngee Ann Polytechnic, Singapore |

| Session 5 | Track 1(ST1) | Track 2(ST2) | Track 3(ST2) | Track 4(ST3) | Track 5(ST3) | Track 6(ST3) |
|----------------------|------------------|---|---|---|---|--|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12301 |
| Chair (SP) | Geok Ling SOO-NG | Denis TONG | Heok Foo TAN | Janny CHAN | Li Chin CHEONG | Sukitha KUNASEGARAN |
| Time: 0900 – 1030 | Paper ID: | Paper ID: JP_68 Proposal of Young Employee Development Program in Civil Engineering: The Field Implementation for the Park Renovation by using VR Technology <i>Nozomu HIROSE, Yukina OBARA, Mako KAWAKAMI, Kaho SENDA</i> NIT Matsue College, Japan <i>Yoshiya OGAWA</i> Osaka Institute of Technology, Japan <i>Yasuyuki OKAZAKI</i> <i>Hiroshima Institute of Technology, Japan</i> <i>Akinori FUJIMORI, Fumiya YAMAGUCHI, Waku ISHIMINE</i> Okumura Engineering Corporation, Osaka, Japan | Paper ID: JP_80 Engineering Inclusive Education through the Development and Implementation of Assistive Tools for Speech Support School Students <i>Akemi EMOTO</i> NIT Tokuyama College, Japan | Paper ID: JP_36 Mathematics Education for Future Engineers <i>Y. HORIHATA</i> NIT Yonago College, Japan | Paper ID: TP_06 Converse Canvas: A Catalyst for Student Motivation <i>Ameer-Alrasyeed bin RAMDAN</i> Temasek Polytechnic, Singapore | Paper ID: JP_52 A Practical Training for Engineers Supporting Metaverse Technologies <i>M. AKIKAWA, H. HAYASHI, A. TAKAHASHI, O. DOEDA, Y. TAKASAKA and S. FUTAYA</i> NIT Kushiro College, Japan |

ST1: Artificial Intelligence in Teaching & Learning

ST2: Technology in Education

ST3: Pedagogical Innovation in Teaching & Learning

ST4: Stakeholder Engagement in Education

ISATE 2024 Day 3 (September 26, 2024: Thursday)

| Session 6 | Track 1(ST1) | Track 2(ST2) | Track 3(ST3) | Track 4(ST3) | Track 5(ST3) | Track 6(ST4) |
|----------------------|---|---|--|--|--|--|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12304 |
| Chair (SP) | Tien Chern CHIA | Kenneth TAN | Bee Lee LOW | Lucan CHIAM | Sumasri KALLAKURI | Sukitha KUNASEGARAN |
| Time: 1400 – 1530 | Paper ID: SP_09 From Disruption to Integration: Empirical Insights into the Role of Generative AI in Fostering AI Literacy within the Curriculum <i>Chia Tien Chern, Lim Pei China, Yanto Jakop and Victoria Ang</i> Singapore Polytechnic, Singapore | Paper ID: NYP_03 Enhancing Institutional Productivity, Agility, and Adaptability through the Nanyang Polytechnic Professional Competency Model <i>Siew Wee Kwek, Wei Meng Son, Garry Tan and Miow Ting Teo</i> Nanyang Polytechnic, Singapore | Paper ID: JP_40 Importance for designing of learning support considering the gap between students' confidence in learning and their actual performance <i>T. NIWA and T. WAKASA</i> NIT Hachinohe College, Japan | Paper ID: TP_09 Logistics Sandbox in School of Business <i>Choo Yen FOO, Murray HO and James CHUA</i> Temasek Polytechnic, Singapore | Paper ID: SP_04 Engaging Students in Asynchronous Learning with Advance Organizer Videos <i>Bee Hong SOO</i> Singapore Polytechnic, Singapore | Paper ID: JP_11 What You See if What You Eat: Emotional Impact of Website Viewing on the Local Community Involvement and Information Business <i>Hiromi HANAWA</i> NIT Fukushima College, Japan |
| | Paper ID: TP_04 Using Digital Humans Powered by GenAI in Service Quality Training <i>Sherly CHIECH, Cyrena CHEONG, Cheng Khoon TAN and Hock Soon TAN</i> Temasek Polytechnic, Singapore | Paper ID: JP_77 Effectiveness of Project-based Learning in Embedded Devices Education <i>Yuma YOSHIMOTO, Jun MATSUKUBO</i> NIT Kitakyushu College, Japan <i>Yoshinoduke KATO and Toshihiks TSUTSUI</i> Ubiquitous AI Corporation, Tokyo, Japan <i>Tomohiro AOKI</i> Renesas Electronics Corporation, Tokyo, Japan | Paper ID: RP_04 Investigating the effectiveness of a 3-stage questioning strategy for deeper comprehension of pre-reading resources <i>G., Sibai, A. Ramli and I. Tay</i> Republic Polytechnic, Singapore | Paper ID: JP_44 Practical Education in IoT System Security <i>T. YUKAWA</i> Nagaoka University of Technology, Niigata, Japan <i>T. OGINO</i> ZeroOne Laboratory LLC., Tokyo, Japan & Institute of Information Security, Kanagawa, Japan <i>J. TAKUBO</i> MASTTOP, Inc., Tokyo, Japan | Paper ID: JP_78 Practical and Collaborative Education through “Urban Hazard Sings” Installation in Local Community <i>Keisuke OHASHI</i> NIT Ishikawa College, Japan | Paper ID: TP_10 Bridging Theory and Practice: The Transformative Role of Mentoring Student Internship Programs <i>S.G. Andrew Kor</i> Temasek Polytechnic, Singapore |
| | Paper ID: NP_05 Implementing a CML Dashboard for Enhanced Academic Monitoring in Higher Education: A Case Study from the School of Interdisciplinary Studies, Ngee Ann Polytechnic <i>J. Chew, W.T. Low, E .Ng and K.S. Kow</i> Ngee Ann Polytechnic, Singapore | Paper ID: JP_30 Machine Translation Accuracy Through the Lens of Proverbs <i>S.K. KAWAKAMI</i> NIT Matsue College, Japan | Paper ID: JP_41 Implementation of a Health Class using Japanese Manga-style Teaching Materials <i>Kenzo KATO, Eikoh CHIDA</i> NIT Ichinoseki College, Japan <i>Rie NAKAJIMA, Yukimasa KATO</i> Nihon University, Japan | Paper ID: SP_22 Making Math Click: Integrating Real-World Scenarios to Capture Student Interest <i>Kai Leong QUEK</i> Singapore Polytechnic, Singapore | Paper ID: NP_02 Preparing Students for the Digital Age <i>Henry Koh and Lula Chee</i> Ngee Ann Polytechnic, Singapore | Paper ID: JP_16 Practical Implementation of Information Incident Handling through Collaboration with Practitioner Instructor <i>Eikoh CHIDA, Masato WAYAMA and Hiroyuki HAGA</i> NIT Ichinoseki College, Japan |

| Session 6 | Track 1(ST1) | Track 2(ST2) | Track 3(ST3) | Track 4(ST3) | Track 5(ST3) | Track 6(ST4) |
|----------------------|------------------|---|---|---|---|---------------------|
| Room | T12302, 303 | LT 12 C | LT 12 D | LT 12 A | LT 12 B | T12304 |
| Chair (SP) | Tien Chern CHIA | Kenneth TAN | Bee Lee LOW | Lucan CHIAM | Sumasri KALLAKURI | Sukitha KUNASEGARAN |
| Time: 1400 – 1530 | Paper ID: | Paper ID: SP_25 Use of Digital Technology in the Teaching and Learning of Safety Mindset and Process Operation Skills <i>Yunyi WONG, Ai ye OH, Katerina YANG and Sin Moh CHEAH</i> Singapore Polytechnic, Singapore | Paper ID: SP_21 FLIPPING THE SCRIPT – A REVERSE CASE STUDY APPROACH <i>Raja Liyana</i> Singapore Polytechnic, Singapore | Paper ID: JP_48 The Effects of Entrepreneurship Education at National Institute of Technology <i>Kaori ONITA</i> NIT Fukushima College, Japan | Paper ID: SP_29 Enhancing Entrepreneurial Competencies Through Self-Directed Learning <i>Edwin SENG, Lynn LAM Cynthia LAM and Angela Koh</i> Singapore Polytechnic, Singapore | Paper ID: |

ST1: Artificial Intelligence in Teaching & Learning

ST2: Technology in Education

ST3: Pedagogical Innovation in Teaching & Learning

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ISATE 2024 Day 3 (September 26, 2024: Thursday)

| Roundtable | | | | | | | | | | |
|----------------------|--|--|---|--|---|--|---|--|---|--|
| Room | LT 12 A | T12302, 303 | T12304 | T12305 | T12306 | T12309 | T12604 | T12601 | T12602 | T12603 |
| Chair (SP) | Sin Moh CHEAH | Yanzo PANG | Lucas CHIAM | Henry KWONG | Yunyi WONG | Adeline KOH | Geok Ling SOO-NG | Teresa CHUA-MORAES | Ying Wei LEONG | Clarice SIM |
| Time: 1100 – 1230 | RT01: AI X Education – Designing for a more inclusive future of education <i>Dr. Thijs WILLEMS,</i> Singapore University of Technology & Design, Singapore | RT02: Transforming Learning Pedagogy and Curriculum - A Competency-Based Approach <i>Dr Siew Kee KWEK,</i> <i>Miow Ting TEO</i> Nanyang Polytechnic, Singapore | RT03: The BEVI (Beliefs Events and Values Inventory) <i>Andy LEE</i> Ngee Ann Polytechnic <i>Dr Yuko UESUGI</i> Eikei University of Hiroshima, Japan | RT04: Collaborative Lectures between Polytechnic Schools and NIT Colleges (SP, NIT Kumamoto College) <i>Henry KWONG</i> Singapore Polytechnic, Singapore <i>Dr Yasuyuki SHIMADA</i> NIT Kumamoto Japan | RT05: Desirable Common Platform for ISATE Participants to be Connected throughout the Year <i>Dr Yunyi WONG</i> Singapore Polytechnic, Singapore <i>Dr Katsumi KATAKURA</i> NIT Nara and <i>Dr KODAMA</i> NIT Toba, Japan | RT06: Empowering Learner Diversity: Integrating Technology for Innovative Pedagogy in Technology Education <i>Adeline KOH</i> Tiong Wei TAN Singapore Polytechnic, Singapore | RT07: Empowering Student Success: Strategies for Motivation Self-Concept and Volition Control <i>Geok Ling SOO-NG, Yiat Yam LEONG,</i> <i>Zhengping LIOW, David TAY, Mun Kin LEONG</i> Singapore Polytechnic, Singapore | RT08: Infusing Sustainability into Education: The Sustainable Development Goals (SDGs) and Curriculum Design – Ideas for creating a meaningful learning experience <i>Teresa CHUA-MORAES</i> Singapore Polytechnic, Singapore | RT09: Ethical Considerations in the Integration of AI for Teaching and Learning <i>Dr Linda WILLIAM</i> Temasek Polytechnic, Singapore | RT10: Student engagement and first-year experience <i>Mari KETOLA</i> Turku University of Applied Sciences, Finland |