

Friday, 20th August

Parallel sessions (9:00 - 10:00)

Workshop 6	Traditional 13 - Active Learning Environments	Traditional 14 - Health Technology and Medical Engineering	Traditional 15 - Sustainable Development in Education	Pre-recorded 4 - Continuous Improvement and Quality Enhancement	Pre-recorded 5: Functional Engineering Materials
	Chair: Irene Wah Chin Tan	Chair: LONG Tien Kian	Chair: Taru Konst	Chair: Juha Kontio	Chair: Wai Ming Kong
161: Empowering Female Students in Engineering: A Study Abroad Capacity Building Initiative - Kaori Tsukazaki, Aisling O'Boyle, Heather McKee, Tamiko Ohshima, Kei Hirayama	87: Development of Nara Kosen's Engineering Education System for Woman and its Effectiveness - Chiyako Araya, Yuri Kagimoto, Yukinori Taniguchi, Takayuki Tamaki, Toshie Matsumura, Hirohito Ishimaru, Naoyuki Fujita	239: CDIO Approach based Educational Project of Sensor Fusion for Assistive Technology - Kosei Nojiri, Hirofumi Ohtsuka, Daichi Arai, Etsuo Horikawa	43: Open Classroom Approach Encouraging Interest in Engineering Inspired by the Japanese Traditional River Traffic "Takasebune" - Kazunori Hosotani, Junichi Morimoto	6: Development of Graduation Research in Food Texture Estimation - Shigeru Kato, Tomomichi Kagawa, Naoki Wada, Takanori Hino, Hajime Nobuhara	232: BROAD EXCITATION BAND OF SPIN WAVE USING MICROSTRIP LINE FOR MAGNONIC DEVICE - Kanta Mori, Taichi Goto, Toshiaki Watanabe, Pang Boey Lim, Mitsuteru Inoue
	92: Improving Students Programming Skills using Serious Game - Linda William	254: Improvement of Gaze Input Communication System with Predictive Conversion - Katsumi Hama, YU Jia Xin, Manabu Suzuki, Takahiko Nakamura	53: Educational Program to Develop Global Engineers based on Nagaoka CO-CORE Vision - Yasuko TSUCHIDA, Yoshihiro OMINATO, Shigehiro TOYAMA, Naritoshi AOYAGI, Susumu NAKAMURA, Hideaki ARAKI, Akihiro Suzuki	149: Effectiveness of Bite-Size Assessments on Students' Performance - Cheng Sheau Chin, Shella Tong	248: MAGNETOOPTICAL PROPERTIES OF CERIUM SUBSTITUTED YTTRIUM IRON GARNET FILMS FOR SPIN CONTROLLED LASERS - Yuki Yoshihara, Pang Boey Lim, Mitsuteru Inoue, Taichi Goto
	105: Learning English through Masterpieces of Music - Practical Report on a Listening / Singing Activity Utilizing Songs - Shinichi Watanabe	253: Assistive Technology in Education for Self-Monitoring with an Optical Wearable Heart Rate Monitor - Masahito Nagamori, Miwako Fukuda, Hajime Takano, Nao Shinoda, Akira Shionoya, Satoshi Ohhashi, Tatuya Susukida, Masaki Nagasawa, Hitoshi Miyake	65: Practical Education of Biological Diversity and Sustainable Management of Environment Using Small Wetland on Campus - Shunichi Miyakoshi, Hiroshi Sakuraoka, Naoki Miyazato, Hisako Ooka, Takayuki Sato, Akihiro Horio, Kyoko Owada, Toru Aoi	85: Nanotech Platform Established for Average Technical Education Science Laboratories - Shiro Nagaoka, Masashi Yamamoto, Takuto Tsuji, Tomokazu Shikama, Tomo Shimizu, Robert Johnston, Kazunori Matsuda, Fusao Shimokawa, Hideo Horibe	195: Behavior of polysiloxane films in contact with aqueous solutions or biofilm simulating solutions - Nobumitsu Hirai, Masaya Horii, Nanako Sugawara, Himeka Kato, Katsuhiko Sano, Akira Suzuki, Yoshiaki Sawada, Takeshi Kougo, Akiko Ogawa, Daisuke Kuroda, Hideyuki Kanematsu
	202: Remote Education Under COVID-19 Pandemic: Using Smartphone Applications to Conduct Architectural Environmental Engineering Experiments - Ayumi ISHIKAWA, Tetsu AOKI	262: Development of a Smartphone Operation Support System Based on Inclusive Design - Yeoh Wei Loon, Ryuto Handa, Isamu Matsuno, Hidetoshi Nakayama, Shinya Suzuki	223: Development of wildlife survey system by industry, academia, government and residents - Yasuyuki Hirose	39: Career Education Programs in National Institute of Technology, Toyota College - Toshiihiro Shimizu, Akihiro Kaneshige	255: SIMULATION OF MAGNETIC DOMAIN FOR SPIN WAVE LOGIC DEVICE - Takumi Koguchi, Tadashi Ataka, Pang Boey Lim, Mitsuteru Inoue, Taichi Goto
				131: The Nature of Science and Its Impact on the Improvement of Scientific Education - Juan Antonio Sanchez Marquez	187: Development of biomass-based plastics with biodegradability and thermoplasticity. - Ryo Satoh, Michiko Konno, Saika Honma, Takashi Morinaga, Toshio Kamijo, Takaya Sato
				156: The Role of Quality Enhancement and Stakeholders' Engagement in Facilitating Student Mobility - Sin Tung Kwok, Cheuk Fai Yuen	249: SPIN CONTROLLED LASER USING MAGNETIC GARNET FILM - Taichi Goto, Ken Aoki, Hibiki Miyashita, Yuki Yoshihara, Takumi Koguchi, Pang Boey Lim, Mani Mina, Mitsuteru Inoue

Social break (10:00 - 10:15)

Break (10:15 - 10:30)

Parallel sessions (10:30 - 11:15)

Workshop 7	Traditional 16 - Continuous improvement and Quality Enhancement	Traditional 17 - Pedagogy for Future Professionals	Traditional 18 - Sustainable Development in Education	Traditional 19 - Active Learning Environments & Pedagogy for Future Professionals	Pre-recorded 6 - Active Learning Environments & Pedagogy for Future Professionals
	Chair: Mervi Varhelahti	Chair: Chek Yang Foo	Chair: Piia Nurmi	Chair: Curtis Revis	Chair: Norihiko Harada
194: Credit-Bearing Student Exchange with Blended Learning - Simon, S. P. SHUM	45: A Continuous Survey of Students' Generic Skills From Pre-Admission to Postgraduation - Koji Kawasaki, Yoshikatsu Kubota, Kuniaki Yajima	104: An Innovative Approach on Using Cognitive Apprenticeship for Skills Acquisition in Learning Computer Programming - Urvi Maniar	83: An International Graduate-School-Level Collaborative Program in NIT Akashi on Cutting Edge Research and Project Developments - Hiroshi Nakanishi, Susan Aspera, Ryan Arevalo, Hideaki Kasai	243: The Path to a Double Degree Program Agreement between Nagaoka KOSEN and TUAS - Shozo Urabe, Hideaki Araki, Yuji Tasaki, Emi Kawamoto, Takahiro Yamamoto	75: Investment Projects Fair, Entrepreneurship Cases - MATILDE CALDERON MERINO, MARIA TERESA HERNANDEZ JAIME
	84: Using English Instructions for Specialized Subjects in a Second Language: Teacher Training and Trial Implementation - Yoko Nakajima, Hirotohi Honma	29: System Development Training Using Small Satellite Kit "HEPTA-Sat" for Education - Yukikazu Murakami	183: Development of a Problem-Based-Learning Program in English to Foster Students' Thinking Ability and Cooperative Skills - Yoshihiro OMINATO, Yasuko TSUCHIDA, Michiaki OMORI, Noboru FUKUDA, Shozo URABE, Katsumi ICHIMURA, Namita MAHARJAN	27: Development and Practice of Introductory Teaching Materials for Electric Power Engineering for Colleges of Technology - Shin-nosuke Suzuki, Yutaro Akimoto, Kengo Suzuki, Katsumi Hirata, Takehito Kato, Tadashi Fukumoto, Fusao Yoshikawa	97: E-Portfolio: An Exploratory Investigation of Learners' Perceived Value of Learning - Boon Khing Song, Andy Kok
	143: Effectiveness and Improvement of Home Based learning. - Choo Heang Lim	38: Introduction of Global Engineer Nurturing Project and the Educational Effect - Takayuki SUGAWARA, Itaru ANDO	217: The Impact of KOSEN Volunteers on Children's STEM Education - Kaori Tsukazaki, Takeshi Shintoku, Takaaki Fukuzoe	13: A Proposal to Discuss Climate Change in a CLIL Classroom to Engage Students in English - Curtis Revis	134: From General to Engineers' English: introducing English Technical Writing Test - Akiko Otsu
					26: Support Groups for Making the Most of Self-Access Learning - Toshihiro Hiraishi, Y. Nakai, J. C. Herbert

Break (11:15 - 11:30)

Parallel sessions (11:30 - 12:30)

Workshop 8	Traditional 20 - Active Learning Environments	Traditional 21 - Pedagogy for Future Professionals	Traditional 22 - Functional Engineering Materials	Pre-recorded 7 - Health Technology and Medical Engineering	Pre-recorded 8 - Active Learning Environments & Pedagogy for Future Professionals
	Chair: Sze Cheng Teo	Chair: Tero Reunanen	Chair: Akihiro Wakahara	Chair: Yasuyuki Shimada	Chair: Meiju Keinänen/Mari Ketola
123: Design of the Diverse Exchanges between Various Students using Engineering as a Common Language - AKEMI EMOTO, SHOKO KAICHIDA, SEICHIRO MIURA, KEIJI TANIMOTO, YOKO SCHON	150: Real-time Learning Analytics for Online Synchronous Learning - Jason Chui, Cally Ng, Zhen Zhen Leow	89: Practice of Cybersecurity Education with Development of Educational Materials in the K-SEC Project - Eikoh Chida	247: Development of multiferroic composite films for voltage-driven magneto-optic special light modulators - Yuichi Nakamura, Naohide Kamada, Ryo Hasumi, Taichi Goto, Pang Boey Lim, Hironaga Uchida, Mitsuteru Inoue	236: Consideration of Tablet Application for Special Needs Children with Multiple Support Functions - Shunsuke Akiguchi, Chisato Ohashi	151: Project-Based Learning as a Pedagogical Approach for Financial Technology Education - Tristan Lim, Mandy Goh, Christian Chia
	205: Effects and Issues of Accepting Program for Short-term International Students - Kangbin Lei, Katsuhiko Narikiyo, Hiroshi Ohyama	37: Cybersecurity Teaching Expert Development Project by K-SEC - On Organizing of Cyber Range - Keiichi Yonemura, Hideyuki Kobayashi, Jun Sato, Hisashi Taketani, Shinya Oyama, Yoshinori Sakamoto, Kentaro Noguchi, Seiichi Kishimoto	257: Mechanical Property Changes of Austenitic Stainless Steels by Severe Plastic Deformation and Subsequent Aging - Frank Jaksoni Mweta, Yoshikazu Todaka, Nozomu Adachi	233: Technology-enhanced Exercise is Effective in Improving Balance and Happiness Level among Healthy Elders – Pilot Study - Evelyn KO, Wollo WU, Florence MOK	170: A practice of deep learning by geometry - Katsutoshi KAWASHIMA, Yasuo MATSUDA, Michihiro SAKAI
	245: Engineering Education Initiative by Making an Accelerator with Collaborating Nearby Laboratories - Ayaka Hattori, Shoko Miyake, Reisho Onodera, Masanobu Tanai, Shinichi Yamagata, Kei Shibata, Masashi Otani, Fujio Naito, Shota Takahashi, Takaoki Takanashi, Atsushi Taketani, Katsuya Hirota, Michihiro Furusaka, Yoshihisa Iwashita, Yasushi Watanabe	70: Evaluation of Educational Content on Cybersecurity and Student's Skill Improvement by the Skill Check - Takeru Miyoshi, Ryotaro Komura, Yasuhiro Urayama, Yohei Iwasaki, Takayuki Tatekawa, Masao Maruyama, Seiichi Kishimoto	259: Formation mechanism of micro-arc and coating by plasma electrolytic oxidation of titanium - Toshiaki Yasui, Katsuki Hayashi, Masahiro Fukumoto	208: Exploration of an inflection point of Ventilation Parameters with Anaerobic Threshold by the Strucchange - Akira Shionoya, Takenori Aida, Hirofumi Nonaka, Kouji Hayami, Hisashi Uchiyama, Masahito Nagamori, Satoshi Ohhashi, Mai Kobayashi, Tsugumi Takayama, Shinji Kimura	178: ADOPTING LEARNINGANTS AND EDTECH TOOLS TO SUPPORT HOME-BASED LEARNING DURING COVID-19 - Say Beng Lai
	246: Educational exchanges between Metropolia UAS and Tokyo Kosen for enhancing international project-based learning - Akihiro Yamashita, Antti K. Piironen, Hiroyuki Aoki	25: Possibility of Developing Legal Mind in Career and Global Education - Kanaho Matsuda, Yuko Matsuo, Sai Sasaki	261: Evaluation of electrode design of a microfluidic impedance biosensor for DNase assay - Kanta Nishibayashi, Seimei Oku, Takahiro Himuro, Masanori Eguchi	201: Toward EMG estimation of wheelchair operation with neural network - Shimpei Aihara, Ryusei Shibata, Ryosuke Mizukami, Takara Sakai, Akira Shionoya	209: Technical Writing Curriculum Include Pair Work by Document Exchange for Fostering Software Documentation Skill - Yutaka Fujita
				192: Development of a transfer aid which can be used by a wheelchair user without assistance - Yusuke KOBAYASHI, Daisuke MIYASHITA	231: The efforts of a microbiology experiment using a smartphone microscope. - Wakako Kobayashi, Miki Watanabe, Shinya Hironaka, Katsuya Shimabukuro
			200: Evaluation of iEMG Focusing on Trunk Muscles During One-Handed Wheelchair Driving - Satoshi Ohashi, Akira Shionoya, Keiu Harada	238: Coping with uncertainty in learning – Case Project Hatchery - Meiju Keinänen, Mari Ketola, Elina Asukas	

Closing ceremony (12:30 - 13:00)

Closing words

ISATE 2022 presentation