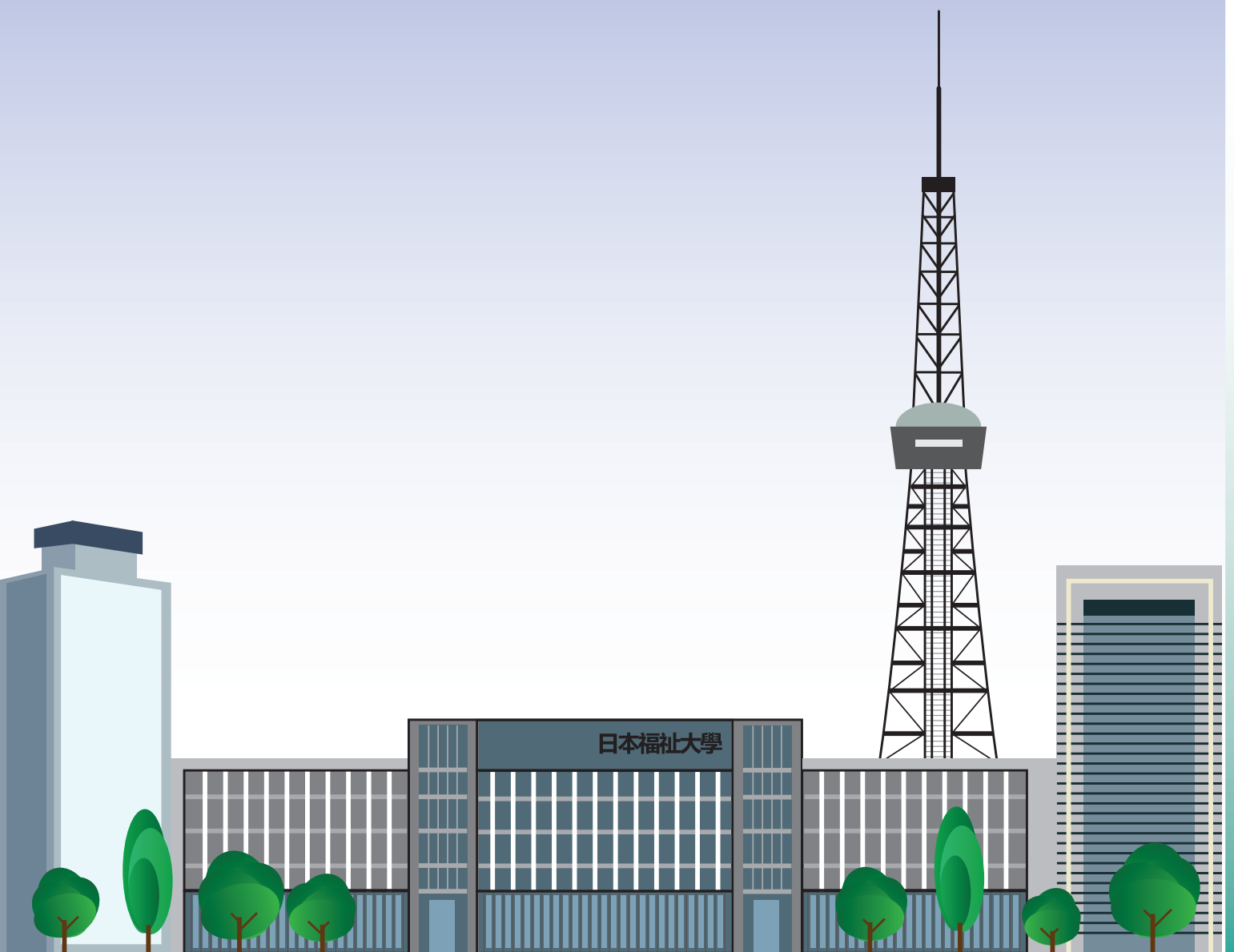


14th International Conference on Blended Learning 7th International Symposium on Educational Technology

10 - 13 August 2021 | Tokai, Nagoya, Japan

Conference Programme



International Conference on Blended Learning 2021

and

International Symposium on Educational Technology 2021

CONFERENCE PROGRAMME

(ONLINE)

10 to 13 August 2021

NIHON FUKUSHI UNIVERSITY

TOKAI · NAGOYA · JAPAN

INTERNATIONAL CONFERENCE ON BLENDED LEARNING 2021

ABOUT THE CONFERENCE

The International Conference on Blended Learning (ICBL) is an annual international conference with the main focus on blended learning – an integration of the traditional learning with innovative means, such as e-learning and open online learning, in order to create a new learning environment to improve learning effectiveness and enrich learning experience. The purpose of ICBL is to bring together researchers and developers from education and computer science to advance the research of blended learning.

This year, ICBL 2021 is the 14th conference of the ICBL conference series. ICBL 2021 is hosted by Nihon Fukushi University, Tokai, Nagoya, Japan, but in online mode due to the Covid-19 pandemic. The main theme is *Blended Learning : Re-thinking and Re-defining the Learning Process*. Accepted papers are included in the conference proceedings published by Springer under its Lecture Notes in Computer Science series (LNCS), as volume 12830. Selected good papers will be invited to submit extended papers to the Journal of Computing in Higher Education in a Special Issue entitled *Redefining the Learning Process Through Educational and Technological Innovations*, and the International Journal of Innovation and Learning in a Special Issue entitled *Towards Flexible Learning to Mitigate Emerging Risks*.

Commencing in 2008, ICBL with its predecessors the International Conference on Hybrid Learning (ICHL) had attracted hundreds of delegates from many countries and regions. Previous conferences are highlighted below.

<u>Conference</u>	<u>Venue</u>	<u>Date</u>	<u>Publication</u>
1 st ICHL 2008	City University of Hong Kong	13 – 15 August 2008	LNCS vol. 5169
2 nd ICHL 2009	University of Macau	25 – 27 August 2009	LNCS vol. 5685
3 rd ICHL 2010	Beijing Normal University	16 – 18 August 2010	LNCS vol. 6248
4 th ICHL 2011	SPACE, University of Hong Kong	10 – 12 August 2011	LNCS vol. 6837
5 th ICHL 2012	South China Normal University	13 – 15 August 2012	LNCS vol. 7411
6 th ICHL 2013	University of Toronto	12 – 14 August 2013	LNCS vol. 8038
7 th ICHL 2014	East China Normal University	8 – 10 August 2014	LNCS vol. 8595
8 th ICHL 2015	Central China Normal University	27 – 29 July 2015	LNCS vol. 9167
9 th ICBL 2016	Peking University	19 – 21 July 2016	LNCS Vol. 9757
10 th ICBL 2017	City University of Hong Kong	27 – 29 June 2017	LNCS Vol. 10309
11 th ICBL 2018	Kansai University	31 July – 2 August 2018	LNCS Vol. 10949
12 th ICBL 2019	University of Hradec Kralove	2 – 4 July 2019	LNCS Vol. 11546
13 th ICBL 2020	Kasetsart University	24 – 27 August 2020	LNCS Vol. 12218

INTERNATIONAL SYMPOSIUM ON EDUCATIONAL TECHNOLOGY 2021

ABOUT THE SYMPOSIUM

The International Symposium on Educational Technology (ISET) is an annual international symposium with the main focus on a wider scope of educational technology. The purpose of ISET is to bring together researchers and developers from education and computer science to advance the research and application of information and communication technology in education.

Held together with ICBL 2021, ISET 2021 is the 7th symposium of the ISET symposium series. ISET 2021 is hosted by Nihon Fukushi University, Tokai, Nagoya, Japan, but in online mode due to the Covid-19 pandemic. The main theme is *Technological Innovation : Re-thinking and Re-defining the Learning Process*. Accepted papers are included in the symposium proceedings published by IEEE Computer Society Conference Publishing Services (CPS). Authors of selected good papers will be invited to submit extended papers to the Journal of Computing in Higher Education in a Special Issue entitled *Redefining the Learning Process Through Educational and Technological Innovations*, and the International Journal of Innovation and Learning in a Special Issue entitled *Towards Flexible Learning to Mitigate Emerging Risks*.

The Symposium series started in 2015, and since then, had attracted hundreds of delegates from many countries and regions. Previous symposiums are highlighted below.

<u>Conference</u>	<u>Venue</u>	<u>Date</u>	<u>Publication</u>
1 st ISET 2015	Central China Normal University	27 - 29 July 2015	IEEE CS CPS
2 nd ISET 2016	Peking University	19 - 21 July 2016	IEEE CS CPS
3 rd ISET 2017	City University of Hong Kong	27 - 29 June 2017	IEEE CS CPS
4 th ISET 2018	Kansai University	31 July - 2 August 2018	IEEE CS CPS
5 th ISET 2019	University of Hradec Kralove	2 - 4 July 2019	IEEE CS CPS
6 th ISET 2020	Kasetsart University	24 - 27 August 2020	IEEE CS CPS

CONFERENCE ARRANGEMENT

ICBL 2021 and ISET 2021 are held in online mode. Please follow the steps below to join the conference.

Step 1. Visit the online programme schedule

For ICBL 2021 :

- Visit the conference website at <http://www.aimtech.cityu.edu.hk/icbl2021>
- Click “Programme” at the menu bar
- Click the “Join” button of the corresponding session

For ISET 2021 :

- Visit the conference website at <http://www.aimtech.cityu.edu.hk/iset2021>
- Click “Programme” at the menu bar
- Click the “Join” button of the corresponding session

Step 2. Join your selected conference session

- Enter the meeting ID and/or password to join (The meeting ID and/or password will be given to you via e-mail beforehand.)
- Select “Join with Computer Audio” to enable the computer’s speaker and microphone in the Zoom meeting

Step 3. Leave your selected conference session

- Select “Leave” to leave your selected conference session

Important Note

All sessions are scheduled in Tokyo time, i.e. GMT + 9 hours. You are advised to join in a session earlier than the scheduled commencement time. Normally, a session will open for joining around 10 minutes before the scheduled commencement time.

INTERNATIONAL CONFERENCE ON BLENDED LEARNING 2021

10 August 2021

(please note that all sessions are scheduled in Tokyo time, GMT + 9 hours)

15:00 – 16:00	<p style="text-align: center;"><u>Workshop Session</u> Online Experiential Learning Efforts at Nihon Fukushi University - Discussion on Key Factors in Light of Online Interactive Outcomes <i>Makoto Kageto</i> <i>Nihon Fukushi University, Nagoya, Japan</i> Meeting ID: 83363005044</p>
---------------	---

11 August 2021

(please note that all sessions are scheduled in Tokyo time, GMT + 9 hours)

09:15 – 09:30	<p style="text-align: center;">Opening Remarks Meeting ID: 88436729539</p>
09:30 – 10:30	<p style="text-align: center;"><u>Keynote Session 1</u> From Nine Events of Instruction to the First Principles of Instruction: Transformation of Learning Architecture for Society 5.0 <i>Katsuaki Suzuki</i> <i>Kumamoto University, Kumamoto, Japan</i> Meeting ID: 88436729539</p>
10:30 – 11:00	<p style="text-align: center;">Tea Break</p>
11:00 – 12:00	<p style="text-align: center;"><u>Keynote Session 2</u> From MOOC to SPOC: Fable-based Learning <i>Jimmy Ho Man Lee</i> <i>The Chinese University of Hong Kong, Hong Kong</i> Meeting ID: 88436729539</p>
12:00 – 13:30	<p style="text-align: center;">Lunch Break</p>
13:30 – 15:30	<p style="text-align: center;"><u>Paper Session</u> Enriched & Smart Learning Experience <i>Chair : Billy Tak-Ming Wong</i> Meeting ID: 85115962120</p>
15:30 – 16:00	<p style="text-align: center;">Tea Break</p>
16:00 – 17:40	<p style="text-align: center;"><u>Paper Session</u> Experience in Blended Learning <i>Chair : Xiaohong Zhang</i> Meeting ID: 85115962120</p>

INTERNATIONAL CONFERENCE ON BLENDED LEARNING 2021

12 August 2021

(please note that all sessions are scheduled in Tokyo time, GMT + 9 hours)

09:30 – 10:30	<p style="text-align: center;"><u>Keynote Session 3</u> The Meaning of Learner Centeredness in Higher Education Revisited <i>Lisa Yekyung Lee</i> <i>Sogang University, Seoul, Korea</i> Meeting ID: 82654628370</p>
10:30 – 11:00	Tea Break
11:00 – 12:00	<p style="text-align: center;"><u>Keynote Session 4</u> Seeing the Future of Education: A Three-Year Experiment of Digital Reading Online Course <i>Wenge Guo</i> <i>Peking University, Beijing, China</i> Meeting ID: 82654628370</p>
12:00 – 13:30	Lunch Break
13:30 – 15:30	<p style="text-align: center;"><u>Paper Session</u> Online and Collaborative Learning <i>Chair : Heng Luo</i> Meeting ID: 86017164585</p>
15:30 – 16:00	Tea Break
16:00 – 17:40	<p style="text-align: center;"><u>Paper Session</u> Institutional Policies & Strategies <i>Chair : Simon K.S. Cheung</i> Meeting ID: 86017164585</p>

INTERNATIONAL CONFERENCE ON BLENDED LEARNING 2021

13 August 2021

(please note that all sessions are scheduled in Tokyo time, GMT + 9 hours)

09:00 – 10:40	<p style="text-align: center;"><u>Paper Session</u> Content and Instructional Design <i>Chair : Ivana Simonova</i> Meeting ID: 81174267303</p>
10:40 – 11:00	<p style="text-align: center;">Tea Break</p>
11:00 – 12:15	<p style="text-align: center;"><u>Panel Session</u> Redefining the Learning Process Through Educational and Technological Innovations <i>Horace H.S. Ip (chair)</i> <i>City University of Hong Kong, Hong Kong, China</i> <i>Kenichi Kubota (co-chair)</i> <i>Kansai University, Osaka, Japan</i> <i>Youru Xie (co-chair)</i> <i>South China Normal University, Guangzhou, China</i> Meeting ID: 85367553500</p>
12:15 – 12:30	<p style="text-align: center;">Closing Remarks and Award Presentation Meeting ID: 85367553500</p>

INTERNATIONAL SYMPOSIUM ON EDUCATIONAL TECHNOLOGY 2021

10 August 2021 (please note that all sessions are scheduled in Tokyo time, GMT + 9 hours)

15:00 – 16:00	<p><u>Workshop Session</u></p> <p>Online Experiential Learning Efforts at Nihon Fukushi University - Discussion on Key Factors in Light of Online Interactive Outcomes</p> <p><i>Makoto Kageto</i> <i>Nihon Fukushi University, Nagoya, Japan</i></p> <p>Meeting ID: 83363005044</p>
---------------	--

11 August 2021 (please note that all sessions are scheduled in Tokyo time, GMT + 9 hours)

09:15 – 09:30	<p>Opening Remarks</p> <p>Meeting ID: 88436729539</p>	
09:30 – 10:30	<p><u>Keynote Session 1</u></p> <p>From Nine Events of Instruction to the First Principles of Instruction: Transformation of Learning Architecture for Society 5.0</p> <p><i>Katsuaki Suzuki</i> <i>Kumamoto University, Kumamoto, Japan</i></p> <p>Meeting ID: 88436729539</p>	
10:30 – 11:00	<p>Tea Break</p>	
11:00 – 12:00	<p><u>Keynote Session 2</u></p> <p>From MOOC to SPOC: Fable-based Learning</p> <p><i>Jimmy Ho Man Lee</i> <i>The Chinese University of Hong Kong, Hong Kong</i></p> <p>Meeting ID: 88436729539</p>	
12:00 – 13:30	<p>Lunch Break</p>	
13:30 – 15:30	<p><u>Paper Session</u></p> <p>Computer Supported Collaborative Learning</p> <p><i>Chair : Michael Jiang</i></p> <p>Meeting ID: 89093890349</p>	<p><u>Paper Session</u></p> <p>E-learning and Online Learning (I)</p> <p><i>Chair : Kwan-Keung Ng</i></p> <p>Meeting ID: 87581876833</p>
15:30 – 16:00	<p>Tea Break</p>	
16:00 – 18:00	<p><u>Paper Session</u></p> <p>Institutional Policies and Strategies</p> <p><i>Chair : Lap-Kei Lee</i></p> <p>Meeting ID: 89093890349</p>	<p><u>Paper Session</u></p> <p>E-learning and Online Learning (II)</p> <p><i>Chair : Yinghui Shi</i></p> <p>Meeting ID: 87581876833</p>

INTERNATIONAL SYMPOSIUM ON EDUCATIONAL TECHNOLOGY 2021

12 August 2021

(please note that all sessions are scheduled in Tokyo time, GMT + 9 hours)

09:30 – 10:30	<p style="text-align: center;"><u>Keynote Session 3</u> The Meaning of Learner Centeredness in Higher Education Revisited <i>Lisa Yekyung Lee</i> <i>Sogang University, Seoul, Korea</i> Meeting ID: 82654628370</p>	
10:30 – 11:00	<p style="text-align: center;">Tea Break</p>	
11:00 – 12:00	<p style="text-align: center;"><u>Keynote Session 4</u> Seeing the Future of Education: A Three-Year Experiment of Digital Reading Online Course <i>Wenge Guo</i> <i>Peking University, Beijing, China</i> Meeting ID: 82654628370</p>	
12:00 – 13:30	<p style="text-align: center;">Lunch Break</p>	
13:30 – 15:30	<p style="text-align: center;"><u>Paper Session</u> Ubiquitous Learning and Flexible Learning <i>Chair : Oliver Au</i> Meeting ID: 82975727446</p>	<p style="text-align: center;"><u>Paper Session</u> Learning Analytics <i>Chair : Richard Li</i> Meeting ID: 83788628795</p>
15:30 – 16:00	<p style="text-align: center;">Tea Break</p>	
16:00 – 18:00	<p style="text-align: center;"><u>Paper Session</u> Smart Learning Environment <i>Chair : Billy T.M. Wong</i> Meeting ID: 82975727446</p>	<p style="text-align: center;"><u>Paper Session</u> Instructional Technology (I) <i>Chair : Kwan-Keung Ng</i> Meeting ID: 83788628795</p>

INTERNATIONAL SYMPOSIUM ON EDUCATIONAL TECHNOLOGY 2021

13 August 2021

(please note that all sessions are scheduled in Tokyo time, GMT + 9 hours)

09:00 – 10:40	<p><u>Paper Session</u> Instructional Technology (II) <i>Chair : Oliver Au</i> Meeting ID: 86537673956</p>	<p><u>Paper Session</u> Gamification and Virtual Reality for Education <i>Chair : Michael Jiang</i> Meeting ID: 84493100999</p>
10:40 – 11:00	Tea Break	
11:00 – 12:15	<p><u>Panel Session</u> Redefining the Learning Process Through Educational and Technological Innovations <i>Horace H.S. Ip (chair)</i> <i>City University of Hong Kong, Hong Kong, China</i> <i>Kenichi Kubota (co-chair)</i> <i>Kansai University, Osaka, Japan</i> <i>Youru Xie (co-chair)</i> <i>South China Normal University, Guangzhou, China</i> Meeting ID: 85367553500</p>	
12:15 – 12:30	Closing Remarks and Award Presentation Meeting ID: 85367553500	

KEYNOTE SESSION 1



From Nine Events of Instruction to the First Principles of Instruction: Transformation of Learning Architecture for Society 5.0

Katsuaki Suzuki
Kumamoto University
Kumamoto, Japan

Abstract. This keynote addresses a needed shift in designing learning architecture for transforming education to meet the needs of Society 5.0, Super Smart Society. The 9 events of instruction, a traditional instructional design theory proposed in the 1970's by Robert M. Gagne, will be reviewed as the framework for facilitating human learning based on information processing theory. It will then be compared with a more recent framework of the First Principles of Instruction, proposed by M. David Merrill in 2002, reflecting various theories and models proposed based on constructivist psychology. Similarities and differences will be discussed to suggest how to utilize them as an architectural framework for blended learning design toward a more learner-centered self-directed learning environment.

Biography. After graduating from International Christian University in Tokyo, Dr. Suzuki went to Florida State University, where he was awarded Ph.D in Instructional Systems in 1985. He has worked at a private and a public university in Japan before he joined Kumamoto University to start an online Graduate School of Instructional Systems in 2006. He is currently a fellow of International Board of Directors for Training, Performance, and Instruction (ibstpi), an honorary member of e-Learning Consortium Japan, as well as on advisory board for School of e-Education, Hamdan Bin Mohammed Smart University, UAE, and a consulting editor of Educational Technology Research and Development, published by the Association for Educational Communications & Technology, USA. He has supervised translation of 6 books into Japanese, written and edited more than 20 books and book chapters, including Online Learner Competencies: Knowledge, Skills, and Attitudes for Successful Learning in Online Settings.

KEYNOTE SESSION 2



From MOOC to SPOC: Fable-based Learning

Jimmy Ho Man Lee

The Chinese University of Hong Kong
Hong Kong, China

Abstract. This presentation gives the pedagogical innovations and experience of the co-development of three MOOCs on the subject of "Modeling and Solving Discrete Optimization Problems" by The Chinese University of Hong Kong and the University of Melbourne. In a nutshell, the MOOCs feature the Fable-Based Learning approach, which is a form of problem-based learning encapsulated in a coherent story plot. Each lecture video begins with an animation that tells a story based on a classic novel. The protagonists of the story encounter a problem requiring technical assistance from the two professors from modern time via a magical tablet granted to them by a fairy god. The new pedagogy aims at increasing learners' motivation and interests as well as situating the learners in a coherent learning context. In addition to scriptwriting, animation production and embedding the teaching materials in the story plot, another challenge of the project is the remote distance between the two institutions as well as the need to produce all teaching materials in both (Mandarin) Chinese and English to cater for different geographic learning needs. The MOOCs have been running recurrently on Coursera since 2017. We present learner statistics and feedback, and discuss our experience with and preliminary observations of adopting the online materials in a Flipped Classroom setting.

Biography. Jimmy Lee obtained both his BMath (Hons) and MMath degrees at the University of Waterloo, and completed his doctoral studies at the University of Victoria. Upon graduation, he joined The Chinese University of Hong Kong (CUHK), where he is now Associate Dean (Education) in the Faculty of Engineering and Professor in the Department of Computer Science and Engineering. His research interests lie in Artificial Intelligence in general and the theory and practice of Constraint Satisfaction and Optimization in particular. His work entails applications in scheduling, resource allocation, and combinatorial problems. He is also an amateur researcher in learning science and technology, focusing on the design of learning platforms and pedagogies for enhancing students' learning experience. During 2017-18, Jimmy joined hands with Peter Stuckey (then) at the University of Melbourne to launch a series of MOOCs on Coursera in both Chinese and English on modeling and solving discrete optimization problems using the Fantasy-based Learning approach, and received good feedback from the learners' community. Jimmy is a two-time recipient (2004 and 2015) of the CUHK Vice-Chancellor's Exemplary Teaching Award and was bestowed in 2017 the CUHK University Education Award, the highest honour in education at CUHK.

KEYNOTE SESSION 3



The Meaning of Learner Centeredness in Higher Education Revisited

Lisa Yekyung Lee
Sogang University
Seoul, Korea

Abstract. This keynote addresses the meaning of ‘learner centered’ education at a time when university students and educators all over the world are (or have been) inevitably thrust into, due to the Covid-19 pandemic. Going online for months surely tests the ability of educators to deliver student centered and interactive learning in a challenging environment. Learner centeredness, in general, implies learning in which the learner’s responsibilities and activities are emphasized compared to that of the instructor. This does not mean that the educator’s role is weakened. Professors must be active in providing feedback about misconceptions and confusions to help students grow into experts. They should also clarify the relation between class projects with the course objectives and the real world, and help students with low competence develop strategies when solving open-ended problems. Students want to think like an expert and apply their skills for solving real world problems. They also desire academic growth by modelling deep insight from their professors. The educator’s role for providing meaningful guidance has become more critical than ever especially for first or second year students who may need much scaffolding for their intellectual development. However, when online classes are carried out for a prolonged time, students’ self-regulation subsides, and the yearn for ‘togetherness’ rises, making it difficult to maintain learner centeredness. Specific examples and their underlying principles of the support provided to students and educators for overcoming their difficulties in 2020 will be discussed in the presentation.

Biography. Dr. Lee obtained her bachelor’s and master’s degree at Seoul National University and completed her doctoral studies at Purdue University with a major in educational technology. After briefly working as a senior researcher at the Center for Human Resource Development at SNU, she joined Sogang University as faculty member of Sogang Graduate School of Education. She is a member of the Presidential Committee of the 4th Industrial Revolution in Korea and recommends plans and policies for the future of education in Korea. She is also committee member of the Korean Society for Educational Technology and Korean Association for Educational Information & Media. Her research interests include instructional methods based on social psychology, instructional design for developing thinking skills, and integrating technology for student centered learning.

KEYNOTE SESSION 4



Seeing the Future of Education: A Three-Year Experiment of Digital Reading Online Course

Wenge Guo
Peking University
Beijing, China

Abstract. The history of the evolution of education and media technology from oral to Internet shows that literacy has developed from the oracy, via the print-based literacy, to the digital literacy. In the ecosystem of Internet, the form of reading materials is changing from printed books to digital multimedia contents, including e-books, video, audio, VR, games, etc. Today, the form of teaching is changing from face-to-face classroom to online classroom mediated by ICT. The change of teaching methods has further brought about a new paradigm of educational research. Based on this background, the Digital Reading Laboratory in the Graduate School of Education, Peking University conducted an experiment on online digital reading courses during 2015 to 2018 in cooperation with three middle schools. This paper will describe this experiment and report the findings.

Biography. Dr. Wenge Guo is an Associate Professor, Department of Educational Technology, Graduate School of Education, Peking University, where she served as the chair of the department during 2004 to 2009, and is the founding chair of the Digital Reading Laboratory. She has been a visiting scholar of the State University of New York at Albany, Chinese University of Hong Kong, and Free University of Berlin. Her research focus is the areas of the history of media technology and education, online education, policy analysis of the China online higher education, and digital literacy.

Dr. Guo earned a bachelor's degree in computer software, master's degree in remote science and cartography, and Ph.D. of education. Her publications include 1 monograph, and over 50 papers in Chinese and English. Her researches won several excellent academic awards in China. She is an excellent Chinese scholar of NCET in 2011.

Dr. Guo coordinated the project, Peking University Online Training Course of Educational Technology for K12 Teachers, which was enrolled by more than 470,000 K12 teachers during 2007 to 2013. She initiated the Digital Reading Online courses for students of 3 high schools in Suzhou, Jiaxing, and Beijing. The courses were ranked as one of the six cases of China's New Curriculum list by China Teachers' Daily in 2016.

PANEL SESSION

Session Title TBC



Horace H.S. Ip (Chair)

City University of Hong Kong, Hong Kong, China

Prof. Ip is the Vice-president in Student Affairs and a Chair Professor of Computer Science at City University of Hong Kong. He has a BSc in Applied Physics and PhD in Image Processing from University College, London, United Kingdom. His research interests include multimedia content analysis and retrieval, and virtual reality for education. Professor Ip's research has won many awards including Prix Ars Electronica, and a Gold Medal of the Geneva Salon International Des Inventions. He has published over 300 papers in international journals and conference proceedings. Prof. Ip is a Fellow of the Hong Kong Institution of Engineers (HKIE), a Fellow of the UK Institution of Engineering and Technology (IET), a Fellow of the British Computer Society (BCS) and a Fellow of the International Association for Pattern Recognition (IAPR).



Kenichi Kubota (co-chair)

Kansai University, Osaka, Japan

Professor Kubota is a Professor Emeritus at the Kansai University in Osaka, Japan. He received Ph.D. degree in Instructional Systems Technology from Indiana University in 1991. His research specialties include the design of learning environments using Web 2.0, participatory international development, communication in development, and educational technology. Professor Kubota has been actively organizing international collaborations on ICT education: "E-learning junior high schools in Latin America" with Peru and Costa Rica; "Fieldwork project with ICT educators" with Niger and Burkina Faso; "ICT education survey" with Australia; "Building the infrastructure of ICT" with the Philippines; "Improvement of the school curriculum for elementary schools" with Syria, among others. Professor Kubota is the former president of the Japan Association for Educational Media Study and a former trustee of the Japan Society for Educational Technology.



Youru Xie (co-chair)

South China Normal University, Guangzhou, China

Youru Xie is a professor and PhD supervisor in School of Educational Information Technology, South China Normal University, China. Prof. Xie serves as a Director of the Steering Committee of Online Open Courses for Universities in Guangdong Province, Executive Member of the Global Chinese Conference of Computer in Education (GCCCE), Executive Vice Chairman of the Intelligent Educational Technology Committee of the Artificial Intelligence Based Educational Technology (AIBET), and Chairman of the Educational Technology Committee of the Guangdong Higher Education Society.

WORKSHOP SESSION



Online Experiential Learning Efforts at Nihon Fukushi University - Discussion on Key Factors in Light of Online Interactive Outcomes

Makoto Kageto

Nihon Fukushi University

Nagoya, Japan

Abstract. This workshop focuses on online experiential learning. We will introduce our efforts to provide authentic experiences online, mainly focusing on international collaboration. Reflection on such experiences, we would like to discuss and look at the future of online experiential learning. It will also be appreciated if you share your experiences related to this topic.

INTERNATIONAL CONFERENCE ON BLENDED LEARNING 2021

PAPER SESSIONS

ICBL 2021 : Enriched & Smart Learning Experience

Chair : Billy Tak-Ming Wong

Supporting Students' Reflection in Game-Based Science Learning: A Literature Review

Xiaotong Yang and Yang Liu

Peer-assessment enhanced collaborative learning in a virtual learning environment

Di Zou, Haoran Xie and Fu Lee Wang

Personalised learning in STE(A)M education: A literature review

Kam Cheong Li and Billy Tak-Ming Wong

Applying an intelligent learning partner in teacher education for improving CT-related TPACK

Zhenzhen He, Changqin Huang, Tao He and Kai Bo

Using Chatbots in Flipped Learning Online Sessions: Perceived Usefulness and Ease of Use

Khe Foon Hew, Weijiao Huang, Jiahui Du and Chengyuan Jia

The Customized Mathematic Instruction Supported by an Intelligent Tutoring System and Its Effect During the COVID-19 Epidemic

Jiyou Jia and Yanying Miao

ICBL 2021 : Experience in Blended Learning

Chair : Xiaohong Zhang

Roles interaction during mobile-blended collaborative learning: The impact of external scripts

Cixiao Wang

Students' Evaluation of Performance-centred Blended Learning Assessment in Japan: Can-Do and Cannot-Do Notions

Terumi Miyazoe

Examining Beginners' Continuance Intention in Blended Learning in Higher Education

He Yang, Jin Cai, Harrison Hao Yang and Xiaochen Wang

Content Development for Blended Learning In Pharmaceutical Preparations

Narinee Phosri and Verayuth Lertnattee

Activity Design for Cultivating Students' Journalistic Skills and Inquiry-mind in a Blended Learning Environment

Xiaohong Zhang, Kaoru Matsubayashi and Kenichi Kubota

ICBL 2021 : Online and Collaborative Learning

Chair : Heng Luo

COVID-19's effects on the scope, effectiveness, and roles of teachers in online learning based on social network analysis: A case study

Yigang Ding, Xinru Yang and Yunxiang Zheng

Fading scaffolds for better online learning? A comparative analysis of three scaffolding practices

Xu Han, Heng Luo, Jiaxin Yang and Siyi Jiang

An Assessment Framework for Online Active Learning Performance

Caixia Liu, Di Zou, Wai Hong Chan, Haoran Xie and Fu Lee Wang

Relationships Among Online Teaching Design, Experience, and Perception of College Teachers During the Pandemic

Shiqian Gu, Xiaotong Yang and Wei Li

Implementation of an Online International Exchange Project for an Official University Lecture

Shinichi Sato and Makoto Kageto

ICBL 2021 : Institutional Policies & Strategies

Chair : Simon K.S. Cheung

Using design thinking in educational game design: A case study of pre-service teacher experience

Yuling Zhang and Juanjuan Chen

The effects of using tablet PCs on student self-regulated learning and learning achievement
Yinghui Shi, Qiuyu Pu, Ling Chen, Kexin Jia and Harrison Hao Yang

Students' Reflection on Online Distance Learning: Advantages, Disadvantages, Recommendations

Ivana Simonova, Ludmila Faltynkova and Katerina Kostolanyova

Cultural Factors in Urgent Transition to Online Learning during the COVID -19 Pandemic – Case Studies from Japan and China

Shudong Wang and Aipeng Chen

Implication on Perceived Usefulness of Open Educational Resources after a Rapid Switch to Online Learning Mode

K.S. Cheung

ICBL 2021 : Content and Instructional Design

Chair : Ivana Simonova

Construction of the Teacher-Student Interaction Model in Online Learning Spaces

Youru Xie, Yuling Huang, Yucheng Bai, Wenjing Luo and Yi Qiu

The Influence of Different Partnerships on Learning Motivation and Social Network in Peer Assessment

Yuru Lin, Yi Zhang and Yichi Wang

Re-thinking and Re-defining the Learning Process? Students' Feedback on Online Distance Instruction

Ludmila Faltynkova, Ivana Simonova, Katerina Kostolanyova and Slavomira Klimszova

Technological barriers and learning outcomes in online courses during the Covid-19 pandemic

Xiangyang He and Harrison Yang

A study on the application of AI experiential learning in the architecture and design courses of a Taiwan University

Shao-Fu Li, Kwan-Keung Ng and Lap-Kei Lee

INTERNATIONAL SYMPOSIUM ON EDUCATIONAL TECHNOLOGY 2021

PAPER SESSIONS

ISSET 2021 : Computer Supported Collaborative Learning

Chair : Michael Jiang

STEM Making: Fostering Secondary Students' Collaborative Skills with Mentor-scaffolded Authentic Problem Solving

Xiaojing Weng, Morris S.Y. Jong and Thomas K.F. Chiu

Professional Learning through Mentorship in a Teaching Portfolio Workshop

Yukari Kato, Chizuko Inoue, Satoshi Yamashita, Hirohito Ishimaru, Tetsu Ueno, Shigeyuki Ajisaka, Suguru Higashida, Tadahiro Kaneda, Tomoharu Doi, Takeshi Wada, Kiyoshi Hayakawa, Kazuhisa Furuta and Ken'ichi Kitano

Online Discussion with Assigned Roles: Does It Bring Better Learning Behaviors and Experiences?

Qinna Feng, Ying Chen and Heng Luo

Research on the Types and Adoption of Peer Feedback Integrated with Interdisciplinary Collaboration

Shanyun Kuang, Jiaqi Gui, Zhijun Xu and Jiawen Deng

Clustering Analysis of Learner Groups in Collaborative Learning: From Perspective of Group Role Preferences

Yichi Wang, Yi Zhang, Yuru Lin and Hao Huang

Development Trajectory of Student Cognitive Behaviors in a SPOC Forum: An Integrated Approach Combining Epistemic Network Analysis and Lag Sequential Analysis

Zhi Liu, Ning Zhang, Shiqi Liu and Sannyuya Liu

ISSET 2021 : Institutional Policies and Strategies

Chair : Lap-Kei Lee

The Design of Scaffolding for Inquiry Learning

Lingyu Dou

A Case Study of Information Accuracy and Dissemination via Digital Media: Has the Number of Doctoral Students Truly Decreased by Half?

Terumi Miyazoe and Shinichi Sato

Video Lessons and E-learning Can Overcome Ban of Face-to-face Lessons in Teaching Mathematics

Milan Pokorný

Features of Instructional Language for Cultivation of Creative Thinking: A Data-driven Analysis of Chinese Senior High School English Textbooks

Shuquan Li and Manfei Xu

Parental Acceptance of Online Learning during Covid-19 Pandemic: A Study Based on Integrated Model of Technology Acceptance and Expected Confirmation

Jun Tian, Xuan Wang, Jinxin Wang, Daiqi Wang and Can Zuo

K-12 Teachers' Online Teaching Intention: Factors of Teacher Demography and Platform Function

Jie Liu, Liyuan Wei, Yayun Liu, Peiyu Wang, Tianjiao Chen and Heng Luo

ISSET 2021 : E-learning and Online Learning (I)

Chair : Kwan-Keung Ng

Using E-learning Activities to Support Classical Chinese Learning in the Out-of-class Context

Kit-Ling Lau

Role Conflicts at Home: A Qualitative Case Study on College Students' Online Learning during the COVID-19 Based on the Social Role Theory

Luying Qiu, Mingxia Hao and Taotao Long

An Investigation of Chinese Junior High School Students' Perception of Online Learning Resources during the COVID-19 Pandemic

Yinghui Shi, Qiuyu Pu, Kexin Jia, Zhongyue Yin, Yu Jiang and Harrison Hao Yang

Research on the Influencing Factors to College Students' Learning Burnout in Online Learning: Social Support, Learning Pressure and Autonomous Learning Ability

Hongyan Zhang, Xuan Wang, Yongpeng Cui, Tong Zhao, Jixin Wang and Can Zuo

Understanding Middle School Students' Perceptions of the Usefulness of Online Classes

Jin Cai, Harrison Hao Yang, He Yang, Xiaochen Wang, Xiangyang He and Shunbi Wu

A Study of Vocational and Professional Education and Training (VPET) Students' Online Learning Experience during the Outbreak of Pandemic

Ricky Yuk-Kwan Ng, Kwan-Keung Ng, Rechell Yee-Shun Lam and Lap-Kei Lee

ISSET 2021 : E-learning and Online Learning (II)

Chair : Yinghui Shi

Research on the Influencing Factors of K-12 Students' Engagement in Home-based Online Learning during COVID-19 Pandemic

Can Zuo, Xuan Wang, Jixin Wang, Jun Tian, Yongpeng Cui and Quan Zhou

Factors Influencing College Students' Teaching, Social, and Cognitive Presence in Online Learning: Based on a National Survey

Shuxian Xu, Gege Li and Heng Luo

What Drives College Teachers' Behavioral Intention to Teach Online? A Structural Equation Modelling Approach

Tianjiao Chen, Gege Li, Qinna Feng, Jie Liu, Peiyu Wang and Heng Luo

What Drives Rural Students' Online Learning Continuance Intention: An SEM Approach

Lingling Liang, Qifang Zhong, Mingzhang Zuo, Heng Luo and Zhonghua Wang

An Investigation of College Students' Information Literacy, Interaction, and Preferences in Online Learning during the COVID-19 Pandemic

Xuan Wang, Harrison Hao Yang, Can Zuo, Yinghui Shi, Jun Tian and Daiqi Wang

Research on K-12 Teachers' Continuance Intention of Online Teaching-Based on the Extended ECM-IS Model

Yongpeng Cui, Xuan Wang, Jixin Wang, Can Zuo, Jun Tian and Mengting Chen

ISSET 2021 : Ubiquitous Learning and Flexible Learning

Chair : Oliver Au

Broadening Word Learning Scopes in Informal Learning Using Ubiquitous Learning Tools

Mohammad Nehal Hasnine, Masatoshi Ishikawa and Hiroshi Ueda

Self-regulation-oriented Analysis of Online Learning Behavior and Influencing Factors

Han Wang, Tao Huang, Yuan Zhao, Yu-ping Yue, Ye Gao and Jie Gao

Personalized Learning Environments

Matthew Montebello

Research on Machine Understanding Math Word Problems: From the Perspective of Discourse Comprehension Models

Jingxiu Huang, Qingtang Liu, Yunxiang Zheng, Linjing Wu, Yigang Ding and Li Huang

The Development Prospect of Learning Intervention Research under the Perspective of Learning Analysis

Shiyan He, Minsheng Fan and Zhenhua Liu

Personalized Learning for Knowledge Management in Herbal Medicine

Verayuth Lertnattee and Bunyapa Wangwattana

ISSET 2021 : Smart Learning Environment

Chair : Billy T.M. Wong

Study on College Students' Learning Engagement and Classroom Preferences under the Smart Classroom Environment

Kaili Lu, Yinghui Shi, Jie Li, Harrison Hao Yang and Min Xu

The Benefits and Challenges of Smart Learning: A Literature Review

Billy T.M. Wong and Kam Cheong Li

Analysis and Research on the Influencing Factors of Learners' Learning Performance in Blended Learning Environment

Zhenhua Liu, Minsheng Fan and Binli Wang

Research on the Influencing Factors of College Students' Deep Learning in Blended Learning Environment

Hesiqi Bin, Yi Zhang, Jingsi Ma and Xue Qin

Research on the Design of Primary School English Learning Resources Based on Cognitive Model

Jun Liu, Juan Yang, Xiaofang Kuang and Weiwei Yan

A Pilot Study of Students' Behavioral Intention to Use AI in Higher Language Education

Mengyuan Chen, Morris Siu-yung Jong, Ching Sing Chai, Chunping Zheng and Moon-young Park

ISET 2021 : Learning Analytics

Chair : Richard Li

Explore Learning Outcome in Terms of Thinking Style and Learning Portfolio

Cheng-Yu Tsai, Yu-Wen Luo, Chih-Tsan Chang, Hung-Hsu Tsai and Pao-Ta Yu

The Design and Development of a Classroom Evaluation System for K-12 Formative Assessment in China

Qingtang Liu, Qinchun Yu and Shen Ba

Predicting the Emotional Engagement in Online Learning: A Hybrid Structural Equation Modeling-artificial Neural Network Approach

Linjie Zhang, Changqin Huang, Tao He, Xuemei Wu, Xizhe Wang and Jianhui Yu

Research on the Influence of Target Features on the Visual Tracking of Children with Autism

Kun Zhang, Chenxin Liu, Jingying Chen, Xiaodi Liu, Guangshuai Wang and Rujing Zhang

Investigating the Flipped-classroom Approach on College Students' Computational Thinking Skills

Di Gong, Harrison Hao Yang and Jin Cai

Research on the Cognitive Input Evaluation Model of MOOC Online Learning from the Perspective of Learning Analysis

Xitian Yi

ISET 2021 : Instructional Technology (I)

Chair : Kwan-Keung Ng

Old Nishiki-e as Learning Tool for Contemporary Digital Object-based Learning in STEAM Education

Sayuri Tanabashi

Content Management System for Creating Microlearning Courses

Tomas Javorcik

Factors Influencing Pre-service Teachers' Acceptance to Introduce Danmaku Video into Online Education

Yingying Ning and Chenyang Dong

Development of a Web Application for Sports Skill Acquisition Process Visualization System

Yuta Ogai, Sha Rin, Tohyama Sayaka and Masayuki Yamada

ISSET 2021 : Instructional Technology (II)

Chair : Oliver Au

An Empirical Study Using the Cognitive Learning RM2A Model for a STEM Project Based on Gesture-based Technology

Zixun Hua and Daoming Fu

Chinese K-12 Teachers' Acceptance of Augmented Reality Based on Technology Acceptance Model

Jingjing Ma, Qingtang Liu, Shufan Yu, Mengfan Liu, Jindian Liu and Linjing Wu

Enhancing Chinese EFL Learners' Coherence and Cohesion in the Continuation Task Through Blended Learning: A Collaborative Action Research

Juan Zeng, Yuwei Zhang, Bibing Shi and Liyan Huang

IoT-based Experiential E-Learning Platform (EELP) for Online and Blended Courses

Moein Mehrtash, Kimia Ghalkhani, Ishwar Singh

Effective Use of Drone in Elementary School Programming Classes

Taro Saiki and Eiichi Sato

ISSET 2021 : Gamification and Virtual Reality for Education

Chair : Michael Jiang

Effects of A Scratch-based Experiential Learning Approach on Students' Math Learning Achievements and Interest

Wei Mo, Yi Zhang, Yunhua Fu, Jia Lin, Hanrui Gao and Yuru Lin

Design and Implementation of Virtual Museum Learning Environment from the Perspective of Multimedia Learning Theory

Qingtang Liu, Mengfan Liu, Shufan Yu, Jingjing Ma, Jindian Liu and Yuwei Jiang

Gamification of Flipped Classroom: FIBER Vs. G-FIBER

Morris Siu-Yung Jong, Gaowei Chen, Vincent W. L. Tam, Ming-Tak Hue, Mengyuan Chen and Xiaojing Weng

Design and Development of an Educational Game for Facilitating Spatial Ability and Mathematics Learning

Jialing Zeng, Ruonan Hu and Junjie Shang

Visualization Analysis of Game-based Teaching in China Based on CiteSpace

Hao Chen, Xiangchun He, Cuilu Sun, Yingjie Fan, Linsheng Wang and Junfang Chen

Conference Organizers



香港城市大學
City University of Hong Kong

Conference Co-organizer



香港多媒體及影像計算學會
Hong Kong Society for Multimedia and Image Computing

ICBL Sponsors



香港培華教育基金
Hong Kong Pei Hua Education Foundation

ISET Technical Sponsor

