

DETAILED CONFERENCE PROGRAM

C1: AIED/ITS/AL; C2: CSCL/LS; C3: ALT/LA; C4: CUMTEL; C5: GTEL&S; C6: TELL; C7: PTP

BOPA : Best Overall Paper Award Nominee;

BSPA : Best Student Paper Award Nominee;

BTDPA : Best Technical Design Paper Award Nominee

F : Full Paper (20 min presentation + 5 min Q&A)

S : Short Paper (10 min presentation + 5 min Q&A)

ES : Extended Summary (8 min presentation + 4 min Q&A)

4 December 2017 (Monday)		
Morning coffee break: 10:30-11:00 / Afternoon coffee break: 15:30-16:00		
09:00-12:30	Workshop W1: The Applications of Information and Communication Technologies in Adult and Continuing Education	Windsor
	Workshop W2: Digital Game-based Learning and Gamification Instructional Strategies for K-12 Schools	Savoy West
	Workshop W7: The 4th Workshop on Learning Analytics (LA): Improving learning and its contexts - developing a learning analytics agenda for our community	Savoy 2
	Workshop W10: The 10th Workshop on Technology Enhanced Learning by Posing/Solving Problems/Questions	Savoy East
12:30-13:30	Lunch	
13:30-18:00	Workshop W5: Innovative Design of Learning Space	Clarendon
	Workshop W7: The 4th Workshop on Learning Analytics (LA): Improving learning and its contexts - developing a learning analytics agenda for our community	Savoy 2
	Tutorial: Essential Skills in Academic Writing <i>Speaker: Sherry Y. Chen, National Central University, Taiwan</i>	Savoy West
	Workshop W10: The 10th Workshop on Technology Enhanced Learning by Posing/Solving Problems/Questions	Savoy East
5 December 2017 (Tuesday)		
Morning coffee break: 10:30-11:00 / Afternoon coffee break: 15:30-16:00		
09:00-12:30	Workshop W3: The 6th Workshop on ICT Trends in Emerging Economies	Savoy 2
	Workshop W4: Information and Communication Technology for Disaster and Safety Education	Clarendon
	Workshop W6: The 8th Workshop on Innovative Designs for Mobile and Ubiquitous Learning: 1:1 and Beyond	Savoy West
	Workshop W12: The 5th Workshop on Technology-Enhanced STEM Education	Savoy East
	Workshop W13: Smart2017: The New Smarts - But are we Smart Enough?	Windsor
12:30-13:30	Lunch	
13:30-18:00	Workshop W8: Nurturing Lifelong Interest-Driven Creators (IDC)	Savoy 2
	Workshop W9: Promoting cognitive access, processes and knowledge building towards deeper learning and creativity	
	Workshop 12: The 5th Workshop on Technology-Enhanced STEM Education	Savoy East
	Doctoral Student Consortia	Clarendon & Windsor

18:30-20:00	Welcome reception	Savoy Ballroom
6 December 2017 (Wednesday)		
09:00-10:00	Opening Ceremony	Savoy Ballroom
10:00-11:00	Keynote Speech 1: "New directions in personalized learning: Open, informal, social" <i>Speaker: Mike Sharples, Open University, UK</i> <i>Chair: Wong Lung Hsiang</i>	Savoy Ballroom
11:00-11:30	Tea break	
11:30-12:30	International Program Committee (IPC) Meeting (Open meeting) # All program committee members are welcome to attend this meeting	Savoy West
	ALT/LA-1 / Chair: Khalid Khan #60F: Extracting implicit suggestions from students' comments – A text analytics approach <i>Venky Shankararaman, Swapna Gottipati and Jeff Lin Rongsheng</i> #117S: Observing the degree of distortion in coordinated motor actions <i>Takehiko Yoshikawa, Kohta Sugawara, Kenji Matsuura, Stephen Karungaru and Naka Gotoda</i> #196S: TGlass: z custom-made wearable prompting accessibility for tetraplegic <i>Maikon Soares, Felipe Bedê, Thiago Araujo, Daniel Carvalcante, Adriano Freitas, Zuila Carvalho and Francisco Oliveira</i>	Savoy East
	CSCL/LS-1 / Chair: #71F: Case-based portraits of contrasting micro-interaction processes during online assessment of collaborative problem solving <i>Johanna Pöysä-Tarhonen, Esther Care, Nafisa Awwal and Päivi Häkkinen</i> #162S: Why learners fail in MOOCs? Investigating the interplay of online academic hardiness and learning engagement among MOOCs learners <i>Tonny Meng-Lun Kuo, Chin-Chung Tsai and Jyun-Cheng Wang</i> #128S: Designing the EMBeRS summer school: Connecting stakeholders in learning, teaching and research <i>Kate Thompson, Antje Danielson, David Gosselin, Simon Knight, Roberto Martinez-Maldonado, Roderic Parnell, Deana Pennington, Julia Svoboda-Gouvea, Shirley Vincent and Penny Wheeler</i>	Savoy 2
	GTEL&S-1 / Chair: Ma. Mercedes Rodrigo #65F: Virtual currency as gamification for learning in a disaster museum to increase the number of revisitors <i>Hiroyuki Mitsuhashi and Masami Shishibori</i> #123S: Muse: A musically inspired game to teach arrays and linked lists <i>Vaishali Sharma, Raghav Musarrat, Sridhar Chimalakonda and Y Raghav Reddy</i> #63S: The digital interactive learning theater in the classroom for drama-based learning <i>Yu-Tzu Liu, Shang-Chiao Lin, Wei-Yi Wu and Gwo-Dong Chen</i>	Clarendon
	PTP-1 / Chair: Aik Ling Tan #4F: Science teachers' engagement with ICT in Singapore: different perspectives <i>Aik Ling Tan and Seng Chee Tan</i> #217S: Current situation of Chinese primary and secondary innovative teachers' evaluation in maker classes <i>Jun-Hao Shan and Shuai-Shuai Li</i> #163S: Surveying Indonesian teachers' design belief and TPACK for 21st century oriented learning	Windsor

	<i>Ching Sing Chai, Joyce Koh, Uma Natarajan, Pei-Shan Tsai, Murni Ramli and Ari Widodo</i>	
12:30-13:30	Lunch	
13:30-14:30	Keynote Speech 2: "From OLMs + LAK + PI to PIL, Personal Informatics for Learners" <i>Speaker: Judy Kay, University of Sydney, Australia</i> <i>Chair: Jon Mason</i>	Savoy Ballroom
14:45-15:45	Theme-based Invited Speaker 1: "Large-scale teacher professional development for effective technology integration" (PTP) <i>Speaker: Sahana Murthy, Indian Institute of Technology Bombay, India</i> <i>Chair: Chee-Kit Looi</i>	Savoy West
	ALT/LA-2 / Chair: Gretchen Geng BSPA #67F: Using data analytics for discovering library resource insights – case from Singapore Management University <i>Lu Ning, Song Rui, Dina Heng Lie Gwek, Swapna Gottipati and Aaron Tay</i> #180S: Development of Alternative Conception Diagnostic System based on Item Response Theory in MOOCs <i>Yu-Cheng Cheng, Jian-Wei Tzeng, Nen-Fu Huang, Chia-An Lee and Meng-Lun Kuo</i> #51S: Algorithm Learning by Comparing Visualized Behavior of Programs <i>Daiki Ihara, Satoru Kogure, Yasuhiro Noguchi, Koichi Yamashita, Tatsuhiro Konishi and Yukihiko Itoh</i>	Savoy East
	CUMTEL-1 / Chair: Yanjie Song #86F: A case study of evaluation of learners' acceptance of AR_H2O2 system <i>Tao Wang, Shan Jia, Jinrui Dai, Manli Lu, Su Cai and Feng-Kuang Chiang</i> #69S: Explore the impact of collaborative tendencies in the flipped classroom on taking basketball teaching <i>Tosti H. C. Chiang</i> #115S: Encouraging system for teaching assistants to advise students during programming exercises <i>Yuuki Yokoyama and Hironori Egi</i>	Savoy 2
	TELL-1 / Chair: Hiroaki Ogata BSPA #13F: Can conversational agents foster learner's willingness to communicate in a second Language? : Effects of communication strategies and affective backchannels <i>Emmanuel Ayedoun, Yuki Hayashi and Kazuhisa Seta</i> #129S: Student engagement with an online pre-enrolment English course at a Japanese university <i>Adam Smith and Andrew Johnson</i> #168S: Using Learning Analytics to support computer-assisted language learning <i>Huiyong Li, Hiroaki Ogata, Tomoyuki Tsuchiya, Yubun Suzuki, Satoru Uchida, Hiroshi Ohashi and Shin'Ichi Konomi</i>	Clarendon
	AIED/ITS/AL-1 / Chair: Gautam Biswas #8F: Investigating the effects of cognitive and metacognitive scaffolding on learners using a learning by teaching environment <i>Cristina Dum Dumaya, Michelle Banawan, Ma. Mercedes T. Rodrigo, Amy Ogan, Evelyn Yarzebinski and Noburo Matsuda</i> #84S: Extraction of relationships between learners' physiological information and learners' mental states by Machine Learning	Windsor

	<p><i>Yoshimasa Tawatsuji, Tatsuro Uno, Keita Okazaki, Siyuan Fang and Tatsunori Matsui</i></p> <p>#131S: GPT: A tutor for geometry proving</p> <p><i>Roscoe Nealle Alicbusan, Laurence Nicholas Foz, Paolo Vittorio Merle, Ethel Chua Joy Ong and Minie Rose Lapinid</i></p>	
15:45-16:15	Tea break	
16:15-18:15	<p>16:15-17:15</p> <p>Panel: A holistic review of school systems for accommodating changes incurred in the digital era: Is it a must?</p> <p><i>Moderator: Siu Cheung Kong, The Education University of Hong Kong, Hong Kong</i></p> <p><i>Panelists:</i></p> <p><i>Tak-Wai Chan, National Central University, Taiwan</i></p> <p><i>Chee Kit Looi, Nanyang Technological University, Singapore</i></p> <p><i>Gautam Biswas, Vanderbilt University, USA</i></p> <p><i>Nian-Shing Chen, National Sun Yat-sen University, Taiwan</i></p>	Savoy West
	<p>17:15-18:15</p> <p>Community Building – TELL SIG</p>	Savoy West
	<p>ALT/LA-3 / Chair: Tore Hoel</p> <p>#104F: An educational support system based on automatic impasse detection in programming exercises</p> <p><i>Koichi Yamashita, Takumi Sugiyama, Satoru Kogure, Yasuhiro Noguchi, Tatsuhiro Konishi and Yukihiro Itoh</i></p> <p>BOPA #122F: A bibliometric analysis of 15 years of research on open educational resources</p> <p><i>Xiaochen Wang, Mengrong Liu, Qianhui Li and Yuan Gao</i></p> <p>#9S: Cognitive investigation of dynamic educational presentation toward better utilization of presentation characteristics</p> <p><i>Yasuhisa Okazaki and Atsushi Yoshikawa</i></p> <p>#108S: Authoring Tool: a collaborative web tool for eBooks creation</p> <p><i>Dilson Rabelo, Ana Emilia Oliveira, Carla Spinillo, Aldrea Rabelo and Rômulo França</i></p> <p>#172S: Enhancing students' critical reading fluency, engagement and self-efficacy using self-referenced learning analytics dashboard visualizations</p> <p><i>Christin Jonathan, Jennifer Pei-Ling Tan, Elizabeth Koh, Imelda Caleon and Siu Hua Tay</i></p> <p>#179S: Coloring strategy combined with three-dimensional animation: Does the mental strategy fit everyone?</p> <p><i>Jiayu Chu, Yiling Hu, Shiyu Wang and Xiaoqing Gu</i></p>	Savoy East
	<p>CUMTEL-2 / Chair: Gary Cheng</p> <p>#11F: System architecture and predictive experiment for an automatic learning Support Function on Classroom Response Systems</p> <p><i>Kozo Mizutani</i></p> <p>#94F: Online synchronous discussion in face-to-face classroom based on WeChat</p> <p><i>Manli Lu, Guang Chen and Shuxian Ouyang</i></p> <p>#5S: A case study of young children's use of iPad for digital storytelling for a study of self</p> <p><i>Leigh Disney and Gretchen Geng</i></p> <p>#95S: Designing boundary activity for mobile learning in science inquiry</p> <p><i>Daner Sun and Chee-Kit Looi</i></p> <p>#121S: Blockino: a tool with an emphasis on educational robotics assisting the teaching of programming logic</p>	Savoy 2

	<i>Higo Lobato Sampaio, Mauro Lopes Carvalho Silva, Aldrea Malheiros Oliveira Rabelo, Carla Priscilla Belchior Marques and Marcelo Henrique Monier Alves Júnior</i>	
	<p>16:15-17:15 GTEL&S-2 / Chair: Morris S. Y. Jong #42F: Designing an intervention for novice programmers based on meaningful gamification: an expert evaluation <i>Jenilyn Agapito and Ma. Mercedes Rodrigo</i> BTDPA #82F: "Go Kahoot!" Enriching classroom engagement, motivation and learning experience with games <i>Sherlock A. Licorish, Jade Li George, Helen E. Owen and Ben Daniel</i> #ES03: Exploring the relationship between gameplay self-efficacy and anxiety when playing the puzzle game <i>Jon-Chao Hong, Ming-Yueh Hwang and Kai-Hsin Tai</i></p>	Clarendon
	<p>17:15-18:15 Community Building – GTEL&S-2 SIG</p>	Clarendon
	<p>AIED/ITS/AL-2 / Chair: Amali Weerasinghe #12F: Learning arithmetic word problem structure with a picture combination application in Kindergarten <i>Pedro Gabriel, Tsukasa Hirashima, Yusuke Hayashi and Kazumasa Maeda</i> #202F: A student placement predictor for programming class using class attitude, psychological scale, and code metrics. <i>Ryosuke Ishizue, Kazunori Sakamoto, Hironori Washizaki and Yoshiaki Fukazawa</i> #57S: Understanding support system for causal relationship in historical learning <i>Tomoko Kojiri, Fumito Nate and Keitaro Tokutake</i> #88S: Predicting student carefulness within an educational game for physics using support vector machines <i>Michelle Banawan, Ma. Mercedes Rodrigo and Juan Miguel L. Andres</i> #ES15: A taxonomy of Minecraft activities for STEM <i>H. Chad Lane, Sherry Yi, Brian Guerrero and Neil Comins</i></p>	Windsor
18:30-23:00	APSCE Executive Committee Meeting (Closed Meeting)	

7 December 2017 (Thursday)		
09:00-10:00	<p>Keynote Speech 3: “From Augmented to Virtual Learning: Design Affordances of Different Mixes of Reality for Learning” <i>Speaker: Eric Klopfer, Massachusetts Institute of Technology, USA</i> <i>Chair: Maiga Chang</i></p>	Savoy Ballroom
10:00-10:30	Tea break	
10:30-12:30	<p>10:30-11:30 Theme-based Invited Speaker 2: “Effective TELL for self-regulated learning and collaborative learning” (TELL) <i>Speaker: Yoshiko Goda, Kumamoto University, Japan</i> <i>Chair: Ting-Chia Hsu</i></p>	Savoy West
	<p>11:30-12:30 TELL-2 / Chair: Yuichi Ono #23F: Multimodality in language education – exploring the boundaries of digital texts <i>Anna-Lena Godhe and Petra Magnusson</i> BOPA #189F: Discussion course model using online educational resources to enhance EFL learners’ motivation and critical thinking <i>Yuichi Ono and Ai Nakajima</i></p>	Savoy West
	<p>CUMTEL-3 / Chair: Su Cai #114F: Teachers’ concerns about adopting interactive spherical video-based virtual reality <i>Jie Geng, Tsun Hin Eric Luk and Siu Yung Morris Jong</i> BOPA #55F: Learning behavioral pattern analysis based on students’ logs in reading digital books <i>Chengjiu Yin, Noriko Uosaki, Hui-Chun Chu, Gwo-Jen Hwang, Jau-Jian Hwang, Itsuo Hatono, Etsuko Kumamoto and Yoshiyuki Tabata</i> #6S: Online responses towards the impact of hand held devices on children’s social and emotional development <i>Gretchen Geng and Leigh Disney</i> #24S: The development of mobile learning CPD modules to improve the management of respiratory diseases <i>Georgina Orsborn, Teresa Demetriou, Kerri Arcus and Elizabeth Asbury</i> #119S: Improving primary students’ problem solving skills in science learning in a seamless learning environment <i>Yanjie Song and Ka Man Lung</i></p>	Savoy 2
	<p>PTP-2 / Chair: Siu-Cheung Kong #66F: A learning support method to raise awareness of the knowledge-to-action gap in information ethics <i>Koji Tanaka, Honomi Miwa, Mitsuru Ikeda and Masahiro Hori</i> #97F: An empirical study on the influencing factors of ICT application: A large scale study for middle and primary schools in China <i>Wei Wang and Chun Lu</i> #77S: Designing mobile applications for positive behaviour for Learning (PB4L) pedagogy <i>Lou Reddy and Nilufar Baghaei</i> #15S: Computational thinking development through programmable robotics activities in STEM education in primary schools <i>Siu-Cheung Kong and Chan-Chio Lao</i></p>	Windsor

	#213S: Developing pre-service teachers' 21st century teaching competencies via digital storytelling <i>Wan-Lin Yang</i>	
	10:30-11:30 ALT/LA-4 / Chair: Weiqin Chen #132F: Multimodal interaction aware platform for collaborative learning <i>Aoi Sugimoto, Yuki Hayashi and Kazuhisa Seta</i> #25S: The journey to improve teaching computer graphics: A systematic review <i>Thomas Suselo, Burkhard Wuensche and Andrew Luxton-Reilly</i> #61S: Analyzing the e-learning video environment requirements of generation Z students using Echo360 platform <i>Swapna Gottipati and Venky Shankararaman</i> #ES04: Authentic learning in a technology-rich classroom: Innovative education in the classroom <i>Kaushal Kumar Bhagat and Jonathan Michael Spector</i>	Savoy East
	11:30-12:30 Community Building: LA/EDM SIG	Savoy East
	10:30-11:30 CSCL/LS-2 / Chair: Kate Thompson #3F: Discovering dynamics of an idea pipeline: understanding idea development within a knowledge building discourse <i>Alwyn Vwen Yen Lee and Seng Chee Tan</i> #56S: Exploratory analysis of discourses between students engaged in a debugging task <i>Ma. Mercedes T. Rodrigo</i> #58S: Analyzing a practical implementation of training metacognition through solving mathematical word problems <i>Tama Duangnamol, Thepchai Supnithi, Gun Srijuntongsiri and Mitsuru Ikeda</i>	Clarendon
	11:30-12:30 Community Building: CSCL/LS SIG	Clarendon
12:30-13:30	Lunch break	
13:30-15:00	Posters / WIPP	Savoy Ballroom
15:00-15:30	Tea break	
15:30-18:00	15:30-16:30 Panel: Multi-sensorial and cross-disciplinary innovative design of game-based learning <i>Moderator: Ju-Ling Shih, National University of Tainan, Taiwan</i> <i>Panelists:</i> <i>Maiga Chang, Athabasca University, Canada</i> <i>Morris Jong, The Chinese University of Hong Kong, Hong Kong</i> <i>Ming-Fong Jian, National Central University, Taiwan</i>	Savoy West
	16:30-17:30 Early Career Panel: <i>Co-chairs:</i> <i>Lung-Hsiang Wong, Nanyang Technological University, Singapore</i> <i>Hyo-Jeong So, Ewha Womans University, South Korea</i> <i>Maiga Chang, Athabasca University, Canada</i> <i>Panelists/Advisors:</i>	Savoy West

	<p><i>Eric Klopfer, Massachusetts Institute of Technology, USA</i> <i>Hiroaki Ogata, Kyoto University, Japan</i> <i>Mike Sharples, Open University, UK</i></p>	
	<p>15:30-18:00 ALT/LA-5 / Chair: Leigh Disney BTDPA #139F: Using network-text analysis to characterise learner engagement in Active Video Watching <i>Tobias Hecking, Vania Dimitrova, Antonija Mitrovic and H. Ulrich Hoppe</i> #126F: Design and implementation of a pedagogic intervention using writing analytics <i>Antonette Shibani, Simon Knight, Simon Buckingham Shum and Philippa Ryan</i> #48S: Interaction between standardisation and research in drafting an international specification on learning analytics <i>Tore Hoel and Weiqin Chen</i> #79S: Train-For-Life: on-line interactive training for industry learners <i>Bashar Barmada and Nilufar Baghaei</i> #135S: Learning environment for recursive functions by visualization of execution process <i>Raiya Yamamoto, Yasuhiro Anzai, Satoru Kogure, Yasuhiro Noguchi, Koichi Yamashita, Tatsuhiko Konishi and Yukihiro Itoh</i> #145S: Can distributed practice improve students' efficacy in learning their first programming language? <i>Qiujiie Zhang, Lishan Zhang, Baoping Li, Ling Chen, I-Han Hsiao and Fati Wu</i> #147S: Cross analytics of student and course activities from e-book operation logs <i>Atsushi Shimada and Shin'Ichi Konomi</i> #ES08: The impact of analytics within the institutions of higher education in New Zealand <i>Hamidreza Mahrooeian, Ben Daniel, Russell Butson and Vijay Mallan</i> #ES13: Temporal Aspect Analysis of Video Log on Flipped Classroom <i>Yasuhisa Tamura, Izumi Horikoshi, Masaaki Murakami, Yasuhiro Wada and Keiichi Tezuka</i></p>	Windsor
	<p>15:30-18:00 CUMTEL-4/ Chair: Chengjiu Yin #38F: Students' participative stances and knowledge construction in small group collaborative learning with mobile instant messaging facilitation <i>Ying Tang, Khe Foon Hew and Gaowei Chen</i> BTDPA #92F: An empirical case on integration of immersive virtual environment into primary school science class <i>Jian Sun, Hao Li, Zhanhao Liu, Su Cai and Xiaowen Li</i> #19S: Applying pedagogy to the design of software for helping students learn equation solving <i>Daphne Robson</i> #40S: The effectiveness of media platforms on reading comprehension: A meta-analysis <i>Bing Xu, Guang Chen, Yuting Sun and Ronghuai Huang</i> #90S: Teaching Influence for Perceived Usefulness of interactive whiteboard--Based on the perspective of College Students <i>Peng Zhou, Zhexu Liu and Jian Xu</i> #137S: Effects of prior knowledge of high achievers on use of e-book highlights and annotations <i>Misato Oi, Fumiya Okubo, Yuta Taniguchi, Masanori Yamada and Shin'Ichi Konomi</i></p>	Clarendon

	<p>16:00-18:00 CSCL/LS-3 / Chair: Lucila Carvalho #21F: Using CSCL to conceptualize disability toward inclusive education design <i>Chris Ostrowski</i> BOPA #54F: Measuring process and outcome of the scientific argumentation in a CSCL environment <i>Wenli Chen and Chee Kit Looi</i> #47S: A toolkit for action: translating theory into practice <i>Lucila Carvalho and Pippa Yeoman</i> #220S: Toddlers testing DDMM: evaluation results and ideas towards creating better learning environments for small children <i>Christine Steinmeier and Dominic Becking</i> #223S: Effects of peer interaction on Web-based computer programming learning <i>Nuttaphat Arunoprayoch, Chih-Hung Lai, Pham-Duc Tho and Jing-San Liang</i> #ES06: Learning to think critically: technologies for debiasing <i>Jürgen Buder</i></p>	Savoy 2
	<p>16:00-18:00 AIED/ITS/AL-3 / Chair: Tsukasa Hirashima #188F: Usability and learning effect evaluations of the electrical note-taking support system with speech processing technologies <i>Hiromitsu Nishizaki and Yosuke Narita</i> BOPA #158F: Framework for building a thinking processes analysis support system: a case study of belief conflict thinking processes <i>Yuki Hayashi, Kazuhisa Seta and Mitsuru Ikeda</i> #136S: Inquiry-based support system to improve intention sharing skills <i>Natsumi Mori, Yuki Hayashi and Kazuhisa Seta</i> #186S: A tool for data acquisition of thinking processes through writing <i>Wasan Na Chai, Taneth Ruangrajitpakorn and Thepchai Supnithi</i> #205S: An Artificial Intelligence approach to identifying skill relationship <i>Tak-Lam Wong, Yuen Tak Yu, Chung Keung Poon, Haoran Xie, Fu Lee Wang and Chung Man Tang</i></p>	Savoy East
19:00-22:00	Banquet	Addington Racecourse

8 December 2017 (Friday)		
09:00-10:00	<p>Keynote Speech 4: "Design of moderately ill-structured task and intelligent support with information structure open approach" <i>Speaker: Tsukasa Hirashima, Hiroshima University, Japan</i> <i>Chair: Riichiro Mizoguchi</i></p>	Savoy Ballroom
10:00-10:30	Tea break	
10:30-12:30	<p>10:30-12:00 Panel: Meta-synthesis and trends reports of educational technologies and pedagogies: what is their value proposition? <i>Moderator: Lung-Hsiang Wong, Nanyang Technological University, Singapore</i> Panelists: <i>Chee-Kit Looi, Nanyang Technological University, Singapore</i> <i>Mike Sharples, The Open University, UK</i> <i>Yuan Gao, Smart Learning Institute, Beijing Normal University, China</i> <i>Jon Mason, Charles Darwin University, Australia</i></p>	Savoy West
	<p>ALT/LA-6 / Chair: Jon Mason #46F: Resource Description Framework (RDF) models for representing the revision process in research support systems <i>Harriet Ocharo and Shinobu Hasegawa</i> #159F: A presentation avatar for self-review <i>Keisuke Inazawa and Akihiro Kashihara</i> #36S: Designing a "Three Rings" theory framework for electronic schoolbag <i>Baoyuan Yin, Fati Wu, Shihua Huang and Shan Jia</i> #153S: Students' performance prediction using data of multiple courses by recurrent neural network <i>Fumiya Okubo, Takayoshi Yamashita, Atsushi Shimada and Shinichi Konomi</i> #164S: A learning support system for integrated motor skill by organized training stages <i>Kohta Sugawara, Takehiko Yoshikawa, Kenji Matsuura, Stephen Karungaru and Naka Gotoda</i> #185S: Capturing changes and variations from teachers' time series usage data <i>Longwei Zheng, Rui Shi and Xiaoqing Gu</i></p>	Savoy East
	<p>CUMTEL-5 / Chair: Ben Chang #30F: Enhancing seamless learning using learning log system <i>Noriko Uosaki, Hiroaki Ogata, Kousuke Mouri and Chengjiu Yin</i> BSPA #215F: A comparison of different types of learning activities in a mobile Python tutor <i>Geela Venise Firmalo Fabic, Antonija Mitrovic and Kourosh Neshatian</i> #167S: Promoting extrinsic motivation based on result of LMS quiz <i>Yasutaka Asai and Hironori Egi</i> #169S: An electronic ID system using a smart phone <i>Jaewook Kim, Takashi Tachino and Yasuhito Kishi</i> #206S: Social network analysis of teacher's role in students' online discussion community <i>Chih-Ming Chu</i> #226S: Exploring the nature of teacher's ongoing feedback to pupils using iPad <i>Weiyun Chen, Yaofeng Xue and Xiaoqing Gu</i></p>	Savoy 2

	<p>CSCL/LS-4 / Chair: Kate Thompson #125F: DBCollab: automated feedback for face-to-face group database design <i>Vanessa Echeverria, Roberto Martinez-Maldonado, Katherine Chiliza and Simon Buckingham Shum</i></p> <p>BSPA/BTDPA #192F: Examining student learning of engineering estimation from METTLE <i>Aditi Kothiyal and Sahana Murthy</i></p> <p>#203F: Social media facilitated group performance: an investigation of tie strength in grouping <i>Cong Qi</i></p> <p>#27S: Impact of both prior knowledge and acquaintanceship on collaboration and performance: a pair program tracing and debugging eye-tracking experiment <i>Maureen Villamor and Ma. Mercedes Rodrigo</i></p> <p>#ES09: Functions of cognitive group awareness tools <i>Daniel Bodemer</i></p> <p>#ES10: Investigation on the shared mental model and team performance of teacher design team for technology integration in education <i>Chunli Wang, Haifeng Xing and Xiaoqing Gu</i></p>	Clarendon
	<p>PTP-3 / Chair: Der-Thang Chen #45F: Participation and psychological ownership on teachers' beliefs of a cloud-based VLE <i>Joanne Yim, Priscilla Moses and Alia Azalea</i></p> <p>#101S: Teachers' perception of IT in science education <i>Der-Thang Chen and Wenjin Bo</i></p> <p>#191S: Supporting learning by doing in a work-process-oriented curriculum <i>Yongwu Miao and Ulrich Hoppe</i></p> <p>#ES02: Measuring stress in doctoral research: a case for reality mining across psychological, physiological and environmental dimensions <i>Russell Butson</i></p>	Windsor
12:30-13:30	Lunch	
13:30-15:30	<p>13:30-14:30 Theme-based Invited Speaker 4: "Fostering collective creativity and 21st century literacies through CSCL and formative learning analytics environments" (CSCL/LS) <i>Speaker: Jennifer Pei-Ling Tan, Nanyang Technological University Singapore</i> <i>Chair: Tan Seng Chee</i></p>	Savoy West
	<p>ALT/LA-7 / Chair: Tore Hoel #62F: Semi-discovery learning support system for analogical reasoning in high-school physics <i>Yasuhiro Noguchi, Takeshi Enokida, Tatsuhiro Konishi and Yukihiro Itoh</i></p> <p>#140F: Synergizing online group knowledge <i>Yen-An Shih and Ben Chang</i></p> <p>#50S: An evaluation of the elementary students' ability of problem solving in information processing <i>Lishan Zhang, Jing Wang, Zijun Zhuang and Baoping Li</i></p> <p>#99S: Detect students' academic emotions in classroom: measurement, self-perception and manifested behaviors <i>Yan Liu, Menghua Hu and Xiaoqing Gu</i></p> <p>#161S: A case study of interactive learning environment for building structure of arithmetic word problem in language delay <i>Sho Yamamoto and Tsukasa Hirashima</i></p>	Savoy East

	<p>#ES14: Analysis of students' peer assessment processes <i>Izumi Horikoshi and Yasuhisa Tamura</i></p>	
	<p>CUMTEL-6 / Chair: Noriko Uosaki #149F: PIVOTEeING: a flipped approach in a postgraduate solid state devices course <i>Lakshmi T G, Soumya Narayana, Harshavardhan Penugonda, Dhirendra Vaidya, Vishvendra Poonia, Swaroop Ganguly and Sahana Murthy</i> #209F: How designer think about designing an Augmented Reality app for the study of central nervous system <i>Fadzil Saleh Mohamad Rofie and Mas Nida Md. Khambari</i> #103S: Responsive eBook based on the principles of educational interfaces <i>Ana Emilia Oliveira, Elza Monier, Dilson Rabelo, Fátima Gatinho, Aldrea Rabelo and Marcelo Henrique Monier Alves Junior</i> #ES12: Supporting face-to-face class with mobile device <i>Yoshiaki Hada</i></p>	Savoy 2
	<p>GTEL&S-3 / Chair: Masanori Sugimoto and Hiroyuki Mitsuahara #148F: JobStar online: game-based learning on smartphones to promote youth career education <i>Toru Fujimoto, Yuki Fukuyama, Satoko Azami and Satoru Konno</i> BOPA #204F: Sufficiency economy philosophy-based interactive mobile game application to promoting sustainability understanding based on inquiry learning with everyday life activities <i>Charoenchai Wongwatkit, Muttakeen Che-Leah, Sasithorn Chookaew, Jintana Wongta, Chitphon Yachulawetkunakorn and Ratthakarn Na Phatthalung</i> #98S: SATOYAMA: simulating and teaching game optimal for young children to learn vegetation succession as management of an actual forest <i>Shuya Kawaguchi, Hiroshi Mizoguchi, Ryohei Egusa, Yoshiaki Takeda, Etsuji Yamaguchi, Shigenori Inagaki, Fusako Kusunoki, Hideo Funaoi and Masanori Sugimoto</i> #182S: Healthy Kidney: an educational game for health awareness <i>Sanda Hammedi, Fathi Essalmi and Maiga Chang</i> #85S: Learning support system for museum exhibits using complex body movements - enhancing sense of immersion in paleontological environment <i>Mikihiro Tokuoka, Hiroshi Mizoguchi, Ryohei Egusa, Shigenori Inagaki, Fusako Kusunoki and Masanori Sugimoto</i> #ES05: Effect of immersive digital gaming experience on elementary students' L2 learning <i>Qiang Miao, Jie Chi Yang and Hsing-Chin Lee</i> #ES11: Exploring the effects of interactive game with situational animation to facilitate primary students in learning nature and life science <i>Shu-Yuan Tao, Yi-Syuan Sie and Mei-Jia Tsai</i></p>	Clarendon
	<p>TELL-3 / Chair: Gary Cheng 160F: Effectiveness of a learning design combining summary-speaking self-study using mobile application with paired reflection on learners' speaking process <i>Kae Nakaya and Masao Murota</i> #190F: Reading for emotion with ICT tools <i>Ania Lian</i> #75S: Automatic classification of teacher feedback and its potential applications for EFL writing <i>Gary Cheng, Shu-Mei Gloria Chwo, Julia Chen, Dennis Fong, Vincent Lam and Michael Tom</i></p>	Windsor

	<p>#102S: Automatic question generation system for English exercise of secondary Students <i>Tasanawan Soonklang, Sunee Pongpinigpinyo, Weenawadee Muangon and Sirak Kaewjamnong</i></p> <p>#143S: Captioning methods of lecture videos for learning in English <i>Veri Ferdiansyah and Seiichi Nakagawa</i></p> <p>#227S: An approach to accent visualisation for the reduction of vowel pronunciation errors <i>Tom Anderson, Barry Reynolds and David Powers</i></p>	
15:30-16:30	Closing Ceremony	Savoy Ballroom