## **Conference Schedule (Online)**

## Wednesday, March 25, 2020

				Time				Parallel Tracks					
	US Pacific	US Eastern	London	Frankfurt	Singapore & Beijing	Tokyo	Sydney	Track A	Track B				
Conference opening	01:00	04:00	08:00	09:00	16:00	17:00	19:00	Keynote: Professor Shane Dawson, Unmin): Learning Analytics – A Field on the Abstract  Keynote QA	iversity of South Australia, Australia (60				
Morning sessions	03:00	06:00	10:00	11:00	18:00	19:00	21:00	Session A1 Session Chair: Vitomir Kovanovic  Short research paper A1-P1 (#215): "Evaluating Teachers' Perceptions of Students' Questions Organization" by Fatima Harrak, François Bouchet, Vanda Luengo and Pierre Gillois  Keywords: teacher's perception, question organization, student's need, student's question, student's profile, pedagogical interest  Abstract	Session B1 Session Chair: Maren Scheffel  Full research paper B1-P1 (#44): "Comparing Teachers' Use of Mirroring and Advising Dashboards" by Anouschka van Leeuwen and Nikol Rummel  Keywords: cooperative/collaborative learning, elementary education, human- computer interface, improving classroom teaching, teaching/learning strategies  Abstract				
	03:30	06:30	10:30	11:30	18:30	19:30	21:30	Full research paper A1-P2 (#133): "Predicting Student Success in a Blended Learning Environment" by Steven Van Goidsenhoven, Daria Bogdanova, Galina Deeva, Seppe Vanden Broucke, Jochen De Weerdt and Monique Snoeck Keywords: blended learning, grade	Short research paper B1-P2 (#183): "Learning analytics dashboards: the past, the present and the future" by Katrien Verbert, Xavier Ochoa, Robin De Croon, Raphael Dourado and Tinne De Laet Keywords: learning analytics dashboards, visualisation, interaction, evaluation				

	04:00	07:00	11:00	12:00	19:00	20:00	22:00	prediction, e-learning, machine learning, logistic regression, random forest classification, learning analytics  Abstract  Invited paper A1-P3 (#-1): "DAS3H: Modeling Student Learning and Forgetting for Optimally Scheduling Distributed Practice of Skills" by Benoît Choffin, Fabrice Popineau, Yolaine Bourda, Jill-Jênn Vie EDM'19 best paper Abstract	Full research paper B1-P3 (#78): "How working memory capacity limits success in self-directed learning: a cognitive model of search and concept formation" by Paul Seitlinger, Abida Bibi, Önne Uus and Tobias Ley  Keywords: Self-directed learning, Concept formation, Working memory capacity, Cognitive-computational modeling  Abstract
								30 Min Break	
Early Afternoon sessions	05:00	08:00	12:00	13:00	20:00	21:00	23:00	Session A2 Session Chair: Vitomir Kovanovic  Full research paper A2-P1 (#308): "Inspiration Cards Workshops with Teachers in Early Co-Design Stages of Learning Analytics" by Yvonne Vezzoli, Manolis Mavrikis and Asimina Vasalou  Keywords: Learning Analytics, co-design methods, inspiration cards, emerging technology  Abstract	Session B2 Session Chair: Maren Scheffel  Practitioner report B2-P1 (#309): "Building a data warehouse for multimodal learning analytics research projects" by Vlatko Lukarov, Matthias Ehlenz and Ulrik Schroeder  Keywords: LRS, Multimodal learning events, data warehouse  Abstract
	05:30	08:30	12:30	13:30	20:30	21:30	23:30	Practitioner report A2-P2 (#181): "Why clicks are not enough: designing a Learning Analytics service for the Estonian Open Educational Resources ecosystem" by Kairit Tammets, Tobias Ley, Mart Laanpere and Manisha Khulbe Keywords: Open Educational Resources, National-level implementation, Learning Analytics, Learning Record Store, Learning Design.	Short research paper B2-P2 (#162): "Slow is Good: The Effect of Diligence on Student Performance in the Case of an Adaptive Learning System for Health Literacy" by Leon Fadljević, Katharina Maitz, Dominik Kowald, Viktoria Pammer-Schindler and Barbara Gasteiger-Klicpera  Keywords: reading competence, health literacy, differentiation, diversity, adaptive elearning system, clustering, learning analytics  Abstract
	06:00	09:00	13:00	14:00	21:00	22:00		Short research paper A2-P3 (#320): "Decoding the Performance in an Out-of-Context Problem during Blocked	Full research paper B2-P3 (#291): "Analytics of Learning Strategies: the Association with the Personality

								Keywords: Interleaving, Blocking, Massed Practice, ITS, K-12 Education, Mathematics  Abstract	and Danijela Gasevic  Best full research paper nominee  Keywords: learning strategies, approaches to learning, personality traits, learning analytics  Abstract
								30 Min Break	
Mid- afternoon	07:00	10:00	14:00	15:00	22:00	23:00	01:00 (+1)		Session B3 Session Chair: Rebecca Ferguson
sessions								Short research paper A3-P1 (#205): "Involving teachers in learning analytics design: Lessons learned from two case studies" by Konstantinos Michos, Charles Lang, Davinia Hernández-Leo and Detra Price-Dennis	Full research paper B3-P1 (#65): "Supporting actionable intelligence: Reframing the analysis of observed study strategies" by Jelena Jovanovic, Shane Dawson, Srecko Joksimovic and George Siemens
								Keywords: Learning Analytics, Teachers, Co-design, Case Studies, Teacher Professional Development	Keywords: trace data, learner behaviour, learning tactics and strategies, explanatory models
								Abstract	Abstract
	07:30	10:30	14:30	15:30	22:30	23:30	01:30 (+1)	Short research paper A3-P2 (#33): "Exploring exam strategies of successful first year engineering students" by Jakub Kužílek, Zdenek Zdrahal, Jonas Vaclavek, Viktor Fuglik and Jan Skočilas	Full research paper B3-P2 (#305): "The privacy paradox and its implications for learning analytics" by Yi-Shan Tsai, Alexander Whitelock-Wainwright and Dragan Gašević  Keywords: Learning analytics, privacy,
								Keywords: Exam strategies, Modelling, Markov Chains	expectations, privacy paradox, higher education
								Abstract	Abstract
	08:00	11:00	15:00	16:00	23:00	00:00 (+1)	02:00 (+1)	Short research paper A3-P3 (#80): "Dialogue attributes that inform depth and quality of participation in student discussion forums" by Elaine Farrow, Johanna Moore and Dragan Gasevic  Best short research paper nominee  Keywords: text analysis, engagement, participation, Community of Inquiry, ICAP  Abstract	Full research paper B3-P3 (#16): "Is Faster Better? A Study of Video Playback Speed" by David Lang, Guanliang Chen, Kathy Mirzaei and Andreas Paepcke  Keywords: moocs, randomized controlled trials, RCTs, playback speed, video interactions, clickstreams, video analytics, grades  Abstract

								30 Min Break	
Late afternoon sessions	09:00	12:00	16:00	17:00	00:00 (+1)	01:00 (+1)	03:00 (+1)	Session A4 Session Chair: Craig Thompson  Full research paper A4-P1 (#42): "Analyzing the consistency in within-activity learning patterns in blended learning" by Varshita Sher, Marek Hatala and Dragan Gasevic  Keywords: Work Habits, Time Management, Time-series Analysis, Learner performance and Consistency, Regularity, Student Persistence  Abstract	Session B4 Session Chair: Rebecca Ferguson  Short research paper B4-P1 (#176): "Trace Data from Student Solutions to Genetics Problems Reveals Variance in the Processes Related to Different Course Outcomes" by Melanie Peffer, David Quigley, Liza Brusman, Jennifer Avena and Jennifer Knight  Keywords: Clustering, Problem solving, Genetics, Metacognition  Abstract
	09:30	12:30	16:30	17:30	00:30 (+1)	01:30 (+1)		Practitioner report A4-P2 (#187): "Engaging Students as Co- Designers of Learning Analytics" by Juan Pablo Sarmiento, Fabio Campos and Alyssa Wise Best practitioner report nominee  Keywords: participatory design, student- facing dashboards, higher education  Abstract	Full research paper B4-P2 (#135): "Towards Automatic Content Analysis of Social Presence in Transcripts of Online Discussions" by Máverick Ferreira, Vitor Rolim, Rafael Ferreira Mello, Rafael Lins, Guanliang Chen and Dragan Gasevic  Keywords: Community of Inquiry Model, Content Analytics, Online Discussion, Text Classification, Epistemic Network Analysis  Abstract
	10:00	13:00	17:00	18:00	01:00 (+1)	02:00 (+1)	04:00 (+1)	Full research paper A4-P3 (#245): "An Exploratory Approach to Measuring Collaborative Engagement in Child Robot Interaction" by Yanghee Kim, Sachit Butail, Michael Tscholl, Lichuan Liu and Yunlong Wang  Keywords: Human-robot interaction, engagement, automatic speech recognition, short-time signal processing, social robotics, human computer interaction, child robot interaction  Abstract	Short research paper B4-P3 (#107): "Design of a Curriculum Analytics Tool to Support Continuous Improvement Processes in Higher Education" by Isabel Hilliger, Camila Aguirre, Constanza Miranda, Sergio Celis and Mar Pérez- Sanagustín Best short research paper nominee  Keywords: Learning Analytics, Currriculum Analytics, Higher Education  Abstract
								30 Min Break	
Evening sessions	11:00	14:00	18:00	19:00	02:00 (+1)	03:00 (+1)	05:00 (+1)	Session A5 Session Chair: Xavier Ochoa Short research paper A5-P1 (#227):"Towards Understanding the Lifespan and Spread of Ideas:	Session B5 Session Chair: Nia Dowell  Full research paper B5-P1 (#72): "Perceptions and expectations about I earning Analytics from a Brazilian Higher

							Epidemiological Modeling of Participation on Twitter" by Sai Santosh Sasank Peri, Bodong Chen, Angela Liegey Dougall and George Siemens  Keywords: Ideas, Epidemiology, Engagement Patterns, Networked Learning, Knowledge Creation, Connectivism  Abstract	Education Institution" by Taciana Pontual, Rafael Ferreira Mello , Rodrigo Lins, Juliana Diniz, Yi-Shan Tsai and Dragan Gasevic Keywords: Learning analytics, Higher education institutions, Human factors, Qualitative research  Abstract
11:30	14:30	18:30	19:30	02:30 (+1)	03:30 (+1)	05:30 (+1)		Full research paper B5-P2 (#236): "The relationship between confusion and metacognitive strategies in Betty's Brain" by Yingbin Zhang, Luc Paquette, Ryan Baker, Jaclyn Ocumpaugh, Nigel Bosch, Anabil Munshi and Gautam Biswas  Keywords: confusion, confusion resolution, metacognitive strategy, learning analytics  Abstract
12:00	15:00	19:00	20:00	03:00 (+1)	04:00 (+1)	06:00 (+1)	Full research paper A5-P3 (#17): "Focused or Stuck Together: Multimodal Patterns Reveal Triads' Performance in Collaborative Problem Solving" by Hana Vrzakova, Angela Stewart, Mary Jean Amon, Nicholas Duran and Sidney K. D'Mello Best full research paper nominee  Keywords: Multimodal Learning Analytics, Interpretability, CSCL, CSCW  Abstract	Practitioner report B5-P3 (#23): "Learning Analytics Applied in Commercial Aviation: Our Use Cases, Obstacles, and Help Needed From Academia" by Liz Gehr and Laurie Dunagan  Keywords: Aviation, Competency Based Training, Obstacles to Learning Analytics Implementation  Abstract
12:30	15:30	19:30	20:30	03:30 (+1)	04:30 (+1)	06:30 (+1)	Full research paper A5-P4 (#186): "iSENS: An Integrated Approach to Combining Epistemic and Social Network Analyses" by Zachari Swiecki and David Williamson Shaffer Keywords: Collaborative problem solving, Epistemic network analysis, Social network analysis Abstract	Full research paper B5-P4 (#50): "How Patterns of Students Dashboard Use Are Related to Their Achievement and Self-Regulatory Engagement" by Fatemeh Salehian Kia, Stephanie Teasley, Marek Hatala, Stuart Karabenick and Matthew Kay Keywords: Student-facing dashboard, self-regulated learning, sequence analytics, academic achievement  Abstract

## Thursday, March 26, 2020

				Time				Parallel Tracks				
	US Pacific	US Eastern	London	Frankfurt	Singapore & Beijing	Tokyo	Sydney	Track A	Track B			
Early morning	01:00	04:00	08:00	09:00	16:00	17:00	19:00	Session A6 Session Chair: Sasha Poquet	Session B6 Session Chair: Shibani Antonette			
sessions								Short research paper A6-P1 (#312): "Automated Insightful Drill-Down Recommendations for Learning Analytics Dashboards" by Shiva Shabaninejad, Hassan Khosravi, Marta Indulska, Aneesha Bakharia and Pedro Isaias Best short research paper nominee	Short research paper B6-P1 (#62): "Towards automated analysis of cognitive presence in MOOC discussions: a manual classification study" by Yuanyuan Hu, Claire Donald, Nasser Giacaman and Zexuan Zhu  Keywords: cognitive presence, MOOC,			
								Keywords: Learning Analytics Dashboards, Visualization Recommendation, Drill-down Data Analysis	text classification, online classification  Abstract			
								Abstract				
	01:30	04:30	08:30	09:30	16:30	17:30	19:30	Short research paper A6-P2 (#278): "Fostering and Supporting Empirical Research on Evaluative Judgement via a Crowdsourced Adaptive Learning System" by Hassan Khosravi, George Gyamfi, Barbara Hanna and	Full research paper B6-P2 (#69): "LA-DECK: A card-based learning analytics co-design tool" by Carlos Gerardo Prieto Alvarez, Simon Buckingham Shum and Roberto Martinez-Maldonado			
								Jason Lodge Best short research paper nominee	Keywords: Co-design, Learning analytics, Participatory design			
								Keywords: evaluative judgement, crowdsourcing, student-authored materials, educational technologies	Abstract			
								Abstract				
	02:00	05:00	09:00	10:00	17:00	18:00	20:00	Practitioner report A6-P3 (#130):"Implementing an attrition model at scale" by Amelia Brennan, Andras Nemes, Jeevan Pokhrel, Cameron Doyle, Vishesh Jain and David McLay Best practitioner report nominee  Keywords: Students at risk, Predictive	Short research paper B6-P3 (#66): "Learning-centred Translucence: an Approach to Understand How Teachers' Talk About Classroom Data" by Rita Prestigiacomo, Roger Hadgraft, Jane Hunter, Lori Lockyer, Simon Knight, Elise van de Noven and Roberto Martinez			
								modelling, Attrition	Maldonado			

								Abstract	Keywords: Classroom evidence, human- centred design, participatory design, evidence-based decision-making
									Abstract
								30 Min Break	
Morning sessions	03:00	06:00	10:00	11:00	18:00	19:00	21:00	Session A7 Session Chair: Sasha Poquet	Session B7 Session Chair: Yi-Shan Tsai
								Short research paper A7-P1 (#147): "Smart Dictionary for E-book Reading Analytics" by Louis Lecailliez, Brendan Flanagan, Mei-Rong Alice Chen and Hiroaki Ogata	Practitioner report B7-P1 (#142): "Effects of In-class and Out-of-class Learning Behaviors on Learning Performance and Self-regulated Learning Awareness" by Li Chen, Yoshiko Goda, Atsushi Shimada and Masanori Yamada
								Keywords: English education, smart dictionary, e-book, learning analytics  Abstract	Keywords: Learning analytics, Self- regulated learning, In-class behavior, Out of-class behavior
									Abstract
	03:30	06:30	10:30	11:30	18:30	19:30	21:30	Practitioner report A7-P2 (#38): "For Evidence-Based Class Design with Learning Analytics: A Proposal of Preliminary Practice Flow Model in High School" by Satomi Hamada, Yufan Xu, Xuewang Geng, Li Chen, Hiroaki Ogata, Atsushi Shimada and Masanori Yamada	Short research paper B7-P2 (#270): "Learning with Background Music A Field Experiment" by Fanjie Li, Xiao Huand Ying Que  Keywords: background music, learning engagement, learning performance, naturalistic setting, music information
								Keywords: Learning Analytics, Study Logs, Digital Textbooks, Proposal Models, High School	retrieval  Abstract
								Abstract	
	04:00	07:00	11:00	12:00	19:00	20:00	22:00	Short research paper A7-P3 (#121): "Exploring Student Approaches to Learning through Sequence Analysis of Reading Logs" by Gökhan Akçapınar, Mei-Rong Alice Chen, Rwitajit Majumdar, Brendan Flanagan and Hiroaki Ogata	Full research paper B7-P3 (#244): "Predicting Student Performance in Interactive Online Question Pools Using Mouse Interaction Features" by Huan Wei, Haotian Li, Meng Xia, Yong Wang and Huamin Qu
								Keywords: Study approaches, sequence analysis, clustering, association rule mining, learning analytics	Keywords: student performance prediction, question pool, mouse movement trajectory, heterogeneous information network
								Abstract	Abstract
								30 Min Break	
Early	05:00	08:00	12:00	13:00	20:00	21:00	23:00	Session A8	Session B8

anernoon								Session Chair: Ioana Jivet	Session Chair: Yi-Shan Tsai
sessions								Full research paper A8-P1 (#223): "A Bayesian Model of Individual Differences and Flexibility in Inductive Reasoning for Categorization of Examples" by Louis Faucon, Jennifer K. Olsen and Pierre Dillenbourg Keywords: Inductive Reasoning, Student Modeling, Adaptive Learning Environment, Process Mining Abstract	Short research paper B8-P1 (#160): "High resolution temporal network analysis to understand and improve collaborative learning" by Mohammed Saqr and Jalal Nouri  Keywords: learning analytics, Social network analysis, Temporal networks, Temporarily, Collaborative learning, Problem-based learning, Medical education  Abstract
	05:30	08:30	12:30	13:30	20:30	21:30	23:30	Full research paper A8-P2 (#75): "Learning to Represent Healthcare Providers Knowledge of Neonatal Emergency Care" by Timothy Tuti, Chris Paton and Niall Winters Best full research paper nominee  Keywords: Global Health, Clinical training, Neonatal care, Emergency care, Smartphones, Deep Knowledge Tracing, Forgetting Curves, Long Short-Term Memory Neural Networks  Abstract	Full research paper B8-P2 (#15): "Personalized Visualizations to Promote Young Learners' SRL" by Inge Molenaar, Anne Horvers, Rick Dijkstra and Ryan Baker  Keywords: Self-Regulated Learning, Adaptive Learning Technologies, Learner- faced dashboards, Hybrid Human-System Intelligence  Abstract
	06:00	09:00	13:00	14:00	21:00	22:00		Full research paper A8-P3 (#233): "R2DE: a NLP approach to estimating IRT parameters of newly generated questions" by Luca Benedetto, Paolo Cremonesi, Andrea Cappelli and Roberto Turrin  Best full research paper nominee  Keywords: learning analytics, natural language processing, knowledge tracing, item response theory, educational data mining  Abstract	Full research paper B8-P3 (#94): "Constructing and Predicting School Advice for Academic Achievement: A Comparison of Item Response Theory and Machine Learning Techniques" by Koen Niemeijer, Remco Feskens, Georg Krempl, Jesse Koops and Matthieu Brinkhuis  Keywords: E-Learning, Item Response Theory', Machine Learning', Neural Networks, Random Forests, Explainable Al
								30 Min Break	
Mid- afternoon	07:00	10:00	14:00	15:00	22:00	23:00		Session A9 Session Chair: Isabel Hilliger	Session B9 Session Chair: Stephanie Teasley
sessions								Full research paper A9-P1 (#126): "Analytics of Time Management and Learning Strategies for Effective Online Learning in Blanded	Full research paper B9-P1 (#120): "Exploration of the Robustness and Generalizability of the Additive

	07:30	10:30	14:30	15:30	22:30	23:30		Environments" by Nora'Ayu Ahmad Uzir, Dragan Gašević, Jelena Jovanovic, Wannisa Matcha, Lisa-Angelique Lim and Anthea Fudge  Keywords: Blended learning, Learning analytics, Learning strategies, Time management strategies, Self-regulated learning  Abstract  Full research paper A9-P2 (#97):"Combining Analytic Methods to Unlock Sequential and Temporal Patterns of Self-Regulated Learning" by John Saint , Dragan Gasevic , Abelardo Pardo , Wannisa Matcha and Nora'Ayu Ahmad Uzir  Keywords: Applied computing, Education, Learning management systems, Computing methodologies, Machine learning, Learning settings, Active learning settings	Radek Pelánek and Jaroslav Čechák  Keywords: student modeling, Additive Factors Model, learning curves, knowledge components, introductory programming  Abstract  Full research paper B9-P2 (#141): "Predicting learners' effortful behaviour in adaptive assessment using multimodal data" by Kshitij Sharma, Zacharoula Papamitsiou, Jennifer Olsen and Michail Giannakos  Keywords: adaptive assessment, effort prediction, multimodal learning analytics, hidden Markov models  Abstract
	08:00	11:00	15:00	16:00	23:00	00:00 (+1)		Full research paper A9-P3 (#218): "edX Log Data Analysis Made Easy" by Manuel Valle Torre, Esther Tan and Claudia Hauff Keywords: MOOC, edX, learning analytics, visualizations  Abstract	Short research paper B9-P3 (#3): "Assessment that matters: Balancing reliability and learner-centered pedagogy in MOOC assessment" by Giora Alexandron, Mary Ellen Wiltrout, Aviram Berg and Jose A. Ruiperez-Valiente Keywords: MOOCs, Assessment, Learning Analytics  Abstract
				_				30 Min Break	
n ;	09:00	12:00	16:00	17:00	00:00 (+1)	01:00 (+1)	03:00 (+1)	Session A10 Session Chair: Xavier Ochoa  Full research paper A10-P1 (#254): "Designing for Serendipity in a Course Recommendation System" by Zach Pardos and Weijie Jiang  Keywords: Higher education, course guidance, filter bubble, neural networks  Abstract	Session B10 Session Chair: Melanie Peffer  Short research paper B10-P1 (#310): "Rethinking time-on-task estimation with outlier detection accounting for individual, time, and task differences" by Quan Nguyen  Keywords: Learning analytics, Temporal analysis, Outlier detection, Time-on-task, Measurement

Late afternoon sessions

									Abstract
	09:30	12:30	16:30	17:30	00:30 (+1)	01:30 (+1)		Full research paper A10-P2 (#319): "Applying Prerequisite Structure Inference to Adaptive Testing" by Sam Saarinen , Evan Cater and Michael Littman  Keywords: prerequisite detection, adaptive testing, knowledge models  Abstract	Full research paper B10-P2 (#71): "How good is my feedback? A Content Analysis of Written Feedback" by Anderson Pinheiro Cavalcanti, Arthur Diego, Rafael Ferreira Mello , Katerina Mangaroska, André Nascimento, Fred Freitas and Dragan Gasevic  Keywords: Feedback, Learning Analytics, Content Analysis, Online learning  Abstract
	10:00	13:00	17:00	18:00	01:00 (+1)	02:00 (+1)	04:00 (+1)	Invited paper A10-P3 (#-2): "Predicting the Difficulty of Multiple Choice Questions in a High-stakes Medical Exam" by Le An Ha, Victoria Yaneva, Peter Baldwin, Janet Mee ACL SIG-EDU'19 best paper Abstract	Short research paper B10-P3 (#219): "Characterizing and influencing students' tendency to write self-explanations in online homework" by Yuya Asano, Jaemarie Solyst and Joseph Williams  Keywords: self-explanation, prompts, engagement, online homework, randomized experiment  Abstract
								30 Min Break	
Evening sessions	11:00	14:00	18:00	19:00	02:00 (+1)	03:00 (+1)	05:00 (+1)	Session A11 Session Chair: Craig Thompson Full research paper A11-P1 (#313): "From Theory to Action: Developing and Evaluating Learning Analytics for Learning Design" by Korah Wiley, Yannis Dimitriadis, Allison Bradford and Marcia Linn Keywords: learning analytics for learning design, learning design, design-based research, teacher-facing learning analytics, theory of learning Abstract	Session B11 Session Chair: Nia Dowell Short research paper B11-P1 (#115): "Detecting learning in noisy data: The case of oral reading fluency" by Beata Beigman Klebanov, Anastassia Loukina, John Lockwood, Van Liceralde, John Sabatini, Nitin Madnani, Binod Gyawali, Zuowei Wang and Jennifer Lentini Keywords: children's reading, reading fluency, oral reading fluency, reading app, book reading, reading analytics Abstract

	12:00	15:00	19:00	20:00	03:00 (+1)	04:00 (+1)	06:00 (+1)	Keywords: Multimodal Learning Analytics, Embodied Cognition, Mathematical Learning, Dynamic Models  Abstract  Practitioner report A11-P3 (#238): "Building a Unified Data Platform to Support Metacognition and Self Regulated Learning" by John Johnston and Etienne Pelaprat  Keywords: Learning Analytics, Metacognition, Self-regulated Learning, Student-Facing Learning Visualizations  Abstract	Ignacio Despujol and Justin Reich  Keywords: MOOCs, Learning Analytics, Multi-plaform Analytics Collaboration, Large-scale Analytics, Cultural Factors  Abstract  Full research paper B11-P3 (#231): "What College Students Say, and What They Do: Aligning Self-Regulated Learning Theory with Behavioral Logs" by Joshua Quick, Benjamin Motz, Jamie Israel and Jason Kaetzel  Keywords: LMS, self-regulated learning, self-reports, trace data  Abstract
Conference social session	13:00	16:00	20:00	21:00	04:00 (+1)	05:00 (+1)	07:00 (+1)	30 Min Break  Conference Social Night (45 min)  Best paper/poster/demo awards Summary  LAK21 Announcement Summary  LAK20 Feedback and Group Discussion Summary	

## Friday, March 27, 2020

				Time				Parallel Tracks			
	US Pacific	US Eastern	London	Frankfurt	Singapore & Beijing	Tokyo	Sydney	Track A	Track B		
Early morning sessions	01:00	04:00	08:00	09:00	16:00	17:00	19:00	Session A12 Session Chair: Shibani Antonette Full research paper A12-P1	Session B12 Session Chair: Yi-Shan Tsai Full research paper B12-P1		

	01:30	04:30	08:30	09:30	16:30	17:30	20:00	(#263): "Towards Skills-based Curriculum Analytics: Can we automate the recognition of prior learning?" by Kirsty Kitto , Nikhil Sarathy, Aleksandr Gromov, Ming Liu, Katarzyna Musial and Simon Buckingham Shum  Keywords: curriculum analytics, lifelong learning, recognition of prior learning, semantic spaces, skills ontologies  Abstract  Short research paper A12-P2 (#140): "The SEIRA approach: course embedded activities to promote academic integrity and literacies in first year Engineering" by Andrea Duff, Andrew Zamecnik, Abelardo Pardo and Elizabeth Smith  Keywords: learning analytics, academic literacy, academic integrity, plagiarism, clustering, engagement  Abstract  Full research paper A12-P3 (#225): "Exploring the Usage of Thermal Imaging for Understanding Video Lecture Designs and Students' Experiences" by Namrata Srivastava, Sadia Nawaz, Jason Lodge, Eduardo Velloso, Sarah M. Erfani and James Bailey  Keywords: Video lectures, Thermal imaging, Cognitive load, Instructional design  Abstract  30 Min Break	Forum Positioning in Shared-Thread and Post-Reply Networks" by Oleksandra Poquet and Jelena Jovanovic  Keywords: Learner networks, social positioning, collective learning  Abstract  Practitioner report B12-P2 (#68): "Using the Behaviour Change Wheel for Learning Analytics adoption" by Hazel Jones  Keywords: Behaviour Change Wheel, change management, faculty engagement, learning analytics  Abstract  Short research paper B12-P3 (#83): "Modelling Collaborative Problemsolving Competence with Transparent Learning Analytics: Is Video Data Enough?" by Mutlu Cukurova, Qi Zhou, Daniel Spikol and Lorenzo Landolfi Best short research paper nominee  Keywords: physical learning analytics, collaborative problem-solving, decision trees, video analytics  Abstract
) s	03:00	06:00	10:00	11:00	18:00	19:00	21:00	Session A13 Session Chair: Vitomir Kovanovic  Short research paper A13-P1 (#240): "Complementing Educational Recommender Systems with Open Learner Models" by Solmaz Abdi, Hassan Khosravi, Shazia Sadiq and Dragan Gasevic  Keywords: Educational Recommender Systems, Open Learner Models,	Session B13 Session Chair: Simon Buckingham Shum Full research paper B13-P1 (#274): "Are Forum Networks Social Networks? A Methodological Perspective" by Oleksandra Poquet, Liubov Tupikina and Marc Santolini Keywords: null models, online posts, learner networks, online forums, collective learning

Morning sessions

	03:30	06:30	10:30	11:30	18:30	19:30	21:30	Abstract  Full research paper A13-P2 (#20): "Prediction of Students' Assessment Readiness in Online Learning Environments: The Sequence Matters" by Donia Malekian, James Bailey and Gregor Kennedy  Keywords: Learning Analytics, LSTM, Assessment Readiness Prediction, Sequential Pattern Mining, MOOCs  Abstract	Full research paper B13-P2 (#264): "Understanding Students' Engagement with Personalised Feedback Messages" by Hamideh Iraj, Anthea Fudge, Margaret Faulkner, Abelardo Pardo and Vitomir Kovanović Best full research paper nominee  Keywords: Feedback, Learning Analytics, Higher Education, Feedback Gap, Data- Driven Approaches  Abstract
	04:00	07:00	11:00	12:00	19:00	20:00	22:00	(#153): "Let's Shine Together! A Comparative Study between Learning Analytics and Educational Data Mining" by Guanliang Chen, Vitor Rolim, Rafael Ferreira Mello and Dragan Gasevic  Keywords: Learning Analytics, Educational Data Mining, Hierarchical Topic Detection, Language Modeling  Abstract	Full research paper B13-P3 (#99): "Disciplinary Differences in Blended Learning Design: A Network Analytic Study" by Alexander Whitelock- Wainwright, Yi-Shan Tsai, Kayley Lyons, Svetlana Khalif, Mike Bryant, Kris Ryan and Dragan Gasevic  Keywords: faculty, learning activity types, epistemic network analysis  Abstract
								30 Min Break	
Early afternoon sessions	05:00	08:00	12:00	13:00	20:00	21:00	23:00	Session A14 Session Chair: Ioana Jivet  Full research paper A14-P1 (#82): "Self-Regulated Learning and Learning Analytics in Online Learning Environments: A Review of Empirical Research" by Olga Viberg, Mohammad Khalil and Martine Baars  Keywords: self-regulated learning, learning analytics, literature review  Abstract	Session B14 Session Chair: Rafael Ferreira Mello Short research paper B14-P1 (#1): "Learning Analytics Challenges: Trade-offs, Methodology, Scalability" by Radek Pelánek Keywords: trade-offs, scalability, methodology, challenge Abstract
	05:30	08:30	12:30	13:30	20:30	21:30	23:30	Practitioner report A14-P2 (#124): "Considerations for amending a whole-institution early-alert system" by Rebecca Siddle and Ed Foster  Keywords: Learning analytics, Early warning, Student success	Full research paper B14-P2 (#237): "From childhood to maturity: Are we there yet?: Mapping the intellectual progress in learning analytics during the past decade" by Zacharoula Papamitsiou, Michail Giannakos and Xavier Ochoa  Keywords: Co-word analysis

								Abstract	bibliometrics, conceptual evolution, learning analytics  Abstract
	06:00	09:00	13:00	14:00	21:00	22:00	00:00 (+1)	Full research paper A14-P3 (#248): "The Automated Grading of Student Open Responses in Mathematics" by John Erickson, Anthony F. Botelho, Steven McAteer, Ashvini Varatharaj and Neil Heffernan  Keywords: open responses, automatic grading, natural language processing  Abstract	Short research paper B14-P3 (#86):"#Confused and Beyond: Detecting Confusion in Course Forums using Student Annotated Hashtags" by Shay Geller, Nicholas Hoernle, Kobi Gal, Marc Facciotti, Avi Segal, Michele Igo, David Karger and Amy Zhang  Keywords: confusion detection, affective learning, student forums  Abstract
								30 Min Break	
Mid- afternoon	07:00	10:00	14:00	15:00	22:00	23:00	01:00 (+1)	Session A15 Session Chair: Isabel Hilliger	Session B15 Session Chair: Bodong Chen
sessions								Full research paper A15-P1 (#259): "Peeking through the Classroom Window: A Detailed Data-Driven Analysis on the Usage of a Curriculum Integrated Math Game in Authentic Classrooms" by Preya Shabrina, Ruth Akintunde, Mehak Maniktala, Tiffany Barnes, Collin Lynch and Teomara Rutherford  Keywords: Curriculum Integrated Games, Educational Games, Classroom Integration, Game Play Session, Teaching Practices	Full research paper B15-P1 (#190): "Quantifying Data Sensitivity: Precise Demonstration of Care when Building Student Prediction Models" by Charles Lang, Charlotte Woo and Jeanne Sinclair  Keywords: Prediction models, data sensitivity, data privacy, student models, data collection parsimony, ethics, empirical Bayes  Abstract
								Abstract	
	07:30	10:30	14:30	15:30	22:30	23:30		Full research paper A15-P2 (#272): "Data-informed Curriculum Sequences for a Curriculum-Integrated Game" by Ruth Akintunde, Preya Shabrina, Veronica Catete, Tiffany Barnes , Collin Lynch and Teomara Rutherford	Full research paper B15-P2 (#268): "How and How Well Do Students Reflect?: Multi-Dimensional Automated Reflection Assessment in Health Professions Education" by Yeonji Jung and Alyssa Wise
								Keywords: Serious Game Analytics, Educational Games, Curricular Sequencing, Retries, Predictive Analysis Abstract	Keywords: Reflection, Reflection Assessment, Health Professions Education, Classification, Natural Language Processing, Content Analysis
	08:00	11:00	15:00	16:00	23:00	00:00	02:00	Full research paper A15-P3 /#207\:"Testing the reliability of inter-rater	Full research paper B15-P3 /#139\-"Towards Automatic Cross-

						( · · · )	(* 1)	reliability" by Brendan Eagan, Jais Brohinsky, Jingyi Wang and David Williamson Shaffer  Keywords: interrater reliability, coding, reliability, validity, statistical analysis  Abstract	Language Classification of Cognitive Presence in Online Discussions" by Gian Barbosa, Raissa Camelo, Anderson Pinheiro Cavalcanti, Péricles Miranda, Rafael Ferreira Mello, Vitomir Kovanovic and Dragan Gasevic  Keywords: Community of Inquiry Model, Cross-Language Classification, Content Analytics, Online Discussion, Optimization  Abstract
								30 Min Break	
Conference closing	09:00	12:00	16:00	17:00	00:00 (+1)	01:00 (+1)	03:00 (+1)	Ç , ,	,
								Kingdom (60 min): Group Learning Analy  Abstract	ondon School of Economics, The United tics
								Keynote QA	