

Machine Learning for Digital Education and Assessment Systems

Marriott Marquis: Times Square Room

June 23rd, 2016

Start Time	Presenter	Affiliation	Paper/Talk Title
Session A			
8:15	Display posters and logistics		
8:30	Welcome & Opening Remarks	<i>Alina/Mihaela/ Rich</i>	
	Invited Speakers		
8:45	Andrew Lan	<i>Rice University</i>	A contextual bandits framework for personalized learning action selection
9:10	Daniel Marcu	<i>USC</i>	Explaining Things Differently: A Crowdsourcing Approach
	Short Talks		
9:35	Elena Glassman	<i>MIT CSAIL</i>	Learning Latent Student Design Decisions in Python Programming Classes
9:50	Igor Labutov	<i>Cornell University</i>	JAG: Joint Assessment and Grading
10:05	Blake Mason	<i>University of Wisconsin-Madison</i>	Modeling Perceptual Fluency with Visual Representations
10:20	Siddharth Reddy	<i>Cornell University</i>	A Queueing-Theoretic Foundation for Optimal Spaced Repetition
10:35	Coffee Break		
	Invited Speakers		
10:50	Jacob Whitehill	<i>Harvard University</i>	Explaining Things Differently: A Crowdsourcing Approach
11:15	Michael Mozer	<i>University of Colorado-Boulder</i>	Predicting and improving memory retention: On the value of psychological theory in the big data era
	Short talks		
11:40	Jie Xu	<i>University of Miami</i>	Personalized Course Sequence Recommendation
11:55	Pengcheng Wang	<i>North Carolina State University</i>	Optimizing Tutorial Planning in Educational Games: A Modular Reinforcement Learning Approach
12:15	Lunch (on your own)		
Session B			
	Invited Speakers		
13:30	Emma Brunskill	<i>CMU</i>	Towards Self Optimizing Tutoring Systems
13:55	Mung Chiang	<i>Princeton University</i>	Social Learning Networks
	Short talks		

14:20	Shaghayegh Sahebi	<i>University of Pittsburgh</i>	Tensor Factorization for Student Modeling and Performance Prediction in Unstructured Domain
14:35	Joseph Jay Williams	<i>Harvard University</i>	Making Explanations Adaptive through Crowdsourcing and Machine Learning
14:50	Afternoon Break		

Start Time	Presenter	Affiliation	Paper/Talk Title
	Invited Speaker		
15:05	Ryan Baker	<i>Teachers College, Columbia University</i>	Measuring Affect and Affect Dynamics in Simulations
15:30	POSTER SESSION		
16:20	Discussion & Closing Remarks	<i>Attendees & MLDEA Organizers</i>	
17:00	End of workshop		

Poster Session

Author	Affiliation	Title
Lei Chen	Educational Testing Service	Towards Assessing Communicative Competence Using Multimodal Learning Analytics
Fazel Keshtkar	Southeast Missouri State University	Predicting Risk of Failure
Mirka Saarela	University of Jyvaskyla	Predicting Math Performance from Raw Large-Scale Educational Assessments Data: A Machine Learning Approach
Reuben Thiessen	Stanford University	Using Machine Learning Techniques to Assess the Effect of a Focusing Statement on the Quality of Question Generation
Michael Yudelson	Carnegie Mellon University	Comparing Models of Student Learning: Practical Implications of Small Differences in Statistical Accuracy
Mihaela van der Schaar	<i>UCLA</i>	Off-Policy Evaluation with Missing Data for Course Recommendation and Curriculum Design
Alina von Davier	<i>Educational Testing Service</i>	Computational Psychometrics for Learning and Assessment Systems