

# Friday, July 1

EDM'16 Friday, July 1			
Start	Room A: Oak Forest A	Room B: Oak Forest B	Room G: Governor's Room I&II
8:00 AM	Registration, light breakfast @ Hannover Ballroom		
9:00 AM	<b>Keynote: Marcia Linn</b> <b>WISE Ways to Strengthen Inquiry Science Learning @ Hannover Ballroom</b>		
10:00 AM	Coffee Break @ Hannover Ballroom		
<b>5. Papers</b>	<b>5A: Factors Affecting Progress &amp; Behavior</b>	<b>5B: Clustering</b>	<b>5G: MOOC Short papers</b>
10:30 AM	FULL 172-Mining behaviors of students in autograding submission system logs (Jessica McBroom, Bryn Jeffries, Irena Koprinska & Kalina Yacef)	<b>EX 11* -Temporally Coherent Clustering of Student Data (Severin Klingler, Tanja Käser, Barbara Solenthaler &amp; Markus Gross)</b>	SHORT 13-Properties & Applications of Wrong Answers in Online Educational Systems (Radek Pelánek & Jiří Řihák)
11:00 AM	FULL 154-Tracing Students' Online Learning Strategies: Do Students Always Use The Same Tactics? (Kelvin H. R. Ng, Kevin Hartman, Kai Liu & Andy W H Khong)	FULL 42- A Coupled User Clustering Algorithm for Web-based Learning Systems (Ke Niu, Zhendong Niu, Xiangyu Zhao, Can Wang, Kai Kang & Min Ye)	10:50 AM SHORT: 56-A Nonlinear State Space Model for Identifying At-Risk Students in Open Online Courses (Feng Wang & Li Chen)  11:10 AM SHORT: 85-On generalizability of MOOC research (Łukasz Kidziński, Kshitij Sharma, Mina Shirvani Boroujeni & Pierre Dillenbourg)
11:30 AM	SHORT 90-Investigating Gender Difference on Homework in Middle School Mathematics (Mingyu Feng, Jeremy Roschelle, Craig Mason & Ruchi Bhanot)	SHORT 32-Association rules uncover social triggers of conceptual learning with physical & virtual representations (Martina Rau)	11:30 AM SHORT: 142-Student Emotion, Co-occurrence, & Dropout in a MOOC Context (John Dillon, Nigel Bosch, Malolan Chetlur, Nirandika Wanigasekara, G. Alex Ambrose, Bikram Sengupta & Sidney D'Mello)
12:00 PM	<b>Sponsor Lunch @ Hannover Ballroom</b>		
<b>6. Papers</b>	<b>6A: Student Modeling &amp; Support</b>	<b>6B: EDM system &amp; framework</b>	<b>6G: Multi-modal &amp; affect</b>
1:00 PM	<b>EX 46*-Effect of student ability &amp; question difficulty on duration</b> (Yijun Ma, Lalitha Agnihotri, Ryan Baker & Shirin Mojarad)	<b>EX 118*-The Apprentice Learner Architecture: Closing the loop between learning theory &amp; educational data</b> (Christopher MacLellan, Erik Harpstead, Rony Patel & Kenneth Koedinger)	<b>EX 78*-The Eyes Have It: Gaze-based Detection of Mind Wandering during Learning with an Intelligent Tutoring System</b> (Stephen Hutt, Caitlin Mills, Shelby White, Patrick J. Donnelly & Sidney K. D'Mello)
1:30 PM	FULL 89-Joint Discovery of Skill Prerequisite Graphs & Student Models (Yetian Chen, José González-Brenes & Jin Tian)	EX: 159*-Web as a textbook: Curating Targeted Learning Paths through the Heterogeneous Learning Resources on the Web (Igor Labutov & Hod Lipson)	FULL 143-Automatic Gaze-Based Detection of Mind Wandering during Film Viewing (Caitlin Mills, Robert Bixler, Xinyi Wang & Sidney D'Mello)
2:00 PM	SHORT 52- Individualizing Bayesian Knowledge Tracing Models. Are Skills More Important Than Students? (Michael Yudelson)	SHORT 18-A Contextual Bandits Framework for Personalized Learning Action Selection (Andrew Lan & Richard Baraniuk)	SHORT 110-Predicting Dialogue Acts for Intelligent Virtual Agents with Multimodal Student Interaction Data (Wookhee Min, Joseph Wiggins, Lydia Pezzullo, Alexandria Vail, Kristy Elizabeth Boyer, Bradford Mott, Megan Frankosky, Eric Wiebe & James Lester)
2:30 PM	Transition between sessions		
<b>7. Papers</b>	<b>7A: Graph mining</b>	<b>7B: Item response theory</b>	<b>7G: Collaborative learning</b>
2:40 PM	SHORT 12-On Competition for Undergraduate Co-op Placements: A Graph Mining Approach (Yuheng Jiang & Lukasz Golab)	SHORT 31-Investigating Difficult Topics in a Data Structures Course Using Item Response Theory & Logged Data Analysis (Eric Fough, Mohammed F. Farghally, Sally Hamouda, Kyu Han Koh & Clifford A. Shaffer)	SHORT 20-Collaborative Problem Solving Skills versus Collaboration Outcomes: Findings from Statistical Analysis & Data Mining (Jiangang Hao, Lei Liu, Alina von Davier, Patrick Kyllonen & Christopher Kitchen)
3:10 PM	FULL 137-Unnatural Feature Engineering: Evolving Augmented Graph Grammars for Argument Diagrams (Linting Xue, Collin Lynch & Min Chi)	SHORT 145-Back to the basics: Bayesian extensions of IRT outperform neural networks for proficiency estimation (Kevin Wilson, Yan Karklin, Bojian Han & Chaitanya Ekanadham)	SHORT 48-Transactivity as a Predictor of Future Collaborative Knowledge Integration in Team-Based Learning in Online Courses (Miaomiao Wen, Keith Maki, Xu Wang & Carolyn Rose)
3:30 PM	Coffee Break @ Hannover Ballroom		
<b>8. Papers</b>	<b>8A: Interventions, policies, optimizing learning, &amp; causal modeling</b>	<b>8B: Educational games</b>	<b>8G: Recommender systems</b>
4:00 PM	FULL 75-Student Usage Predicts Treatment Effect Heterogeneity in the Cognitive Tutor Algebra I Program (Adam Sales, Asa Wilks & John Pane)	<b>Best Paper Nominee</b> <b>100**-Measuring Gameplay Affordances of User-Generated Content in an Educational Game</b> (Andrew Hicks, Zhongxiu Liu & Tiffany Barnes)	JEDM 302-Next-Term Student Performance Prediction: A Recommender Systems Approach (Mack Sweeney, Jaime Lester, Huzefa Rangwala, Aditya Johri)
4:30 PM	SHORT 21-Using Inverse Planning for Personalized Feedback (Anna Rafferty, Rachel Jansen & Thomas Griffiths)	SHORT 131-Choosing versus Receiving Feedback: The Impact of Feedback Valence on Learning in an Assessment Game (Maria Cutumisu & Daniel L. Schwartz)	SHORT 83-Course Enrollment Recommender System (Hana Bydžovská)
4:50 PM	SHORT 135-Aim Low: Correlation-based Feature Selection for Model-based Reinforcement Learning (Shitian Shen & Min Chi)	SHORT 53-Validating Game-based Measures of Implicit Science Learning (Elizabeth Rowe, Jodi Asbell-Clarke, Michael Eagle, Andrew Hicks, Tiffany Barnes, Rebecca Brown & Teon Edwards)	SHORT 169-Course Content Analysis: An Initiative Step toward Learning Object Recommendation Systems for MOOC Learners (Yiling Dai, Yasuhiro Asano & Masatoshi Yoshikawa)
5:20 PM	Break		
6:30 PM	<b>Reception &amp; Poster Session II @ NC Museum of Natural Science, 6:30-9:30 pm (Posters 6:30-7:30)</b>		
6-9 pm	Check out Raleigh's First Friday Gallery Walk <a href="http://www.godowntownraleigh.com/first-friday-raleigh">http://www.godowntownraleigh.com/first-friday-raleigh</a>		