Proceedings of the 10th International Conference on Educational Data Mining

International Conference on Educational Data Mining (EDM) 2017
Proceedings of the 10th International Conference on Educational Data Mining
Xiangen Hu, Tiffany Barnes, Arnon Hershkovitz, Luc Paquette(eds)
Wuhan, China, June 25-28, 2017
Preface


The EDM conference is the leading international forum for high-quality research that leverages educational data, learning analytics, and machine learning to answer research questions that shed light on the learning processes. Educational data may come from traces that students leave when they interact with learning management systems, interactive learning environments, intelligent tutoring systems, educational games or when they participate in other data-rich learning contexts. The types of data range from raw log files to data captured by eye-tracking devices or other kind of sensors. The methods used by EDM researchers include analytics, data science, data mining, machine learning, as well as social network analysis, graph mining, recommender systems, and model building.

This years conference features two invited talks by: Dr. Jie Tang, Associate Professor with the Department of Computer Science and Technology at Tsinghua University; and Dr. Ron Cole, President of Boulder Learning Inc. Together with the Journal of Educational Data Mining (JEDM), the EDM 2017 conference supports a JEDM Track that provides researchers with a venue to deliver more substantial mature work than is possible in a conference proceedings and to present their work to a live audience. The papers submitted to this track followed the JEDM peer review process; five papers have been accepted to the track and will be presented at the conference. The abstract for the invited talks and accepted JEDM Track papers can be found in the proceedings.

The main conference invited contributions to the Research Track and Industry Track. We received 122 submissions (71 full, 47 short, 4 industry). We accepted 18 full papers (25% acceptance rate) and 32 short papers for oral presentation (42% acceptance rate) and an additional 39 for poster presentations, 3 demonstrations. The industry track includes all 4 submitted industry papers and 1 paper initially submitted as a full paper.

The EDM conference provides opportunities for young researchers, and particularly Ph.D. students, to present their research ideas and receive feedback from the peers and more senior researchers. This year, the Doctoral Consortium features 6 such presentations. In addition to the main program, the conference includes 3 workshops: Graph-based Educational Data Mining (G-EDM 2017); Sharing and Reusing Data & Analytics Methods with LearnSphere; Deep Learning with Educational Data, and 2 tutorials: Why Data Standards are Critical for EDM and AIED; and Principal Stratification for EDM Experiments.

We thank the sponsors of EDM 2017 for their generous support: 17Zuoye, Coursera, Learnta, and the Prof. Ram Kumar Memorial Foundation. We also thank the program committee members and reviewers, who with their enthusiastic contributions gave us invaluable support in putting this conference together. Last but not least we thank the organizing team.

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Awards

Best papers and exemplary paper selection

The two program chairs selected 5 best paper nominees based on the reviews and meta-reviews for each of those paper. The nominees were then sent to the members of the best paper awards committee. Each committee member read and ranked each one of the nominees. Ranking was compiled and the best paper award was attributed to the most highly ranked paper. The best student paper award was attributed to the most highly ranked paper that was also authored by a student. The winner of the best paper award was not eligible to also win the best student paper award.

Best paper/best student papers committee:

<table>
<thead>
<tr>
<th>Ryan Baker</th>
<th>Michel Desmarais</th>
<th>Zach Pardos</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cristobal Romero</td>
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</tr>
</tbody>
</table>

Award winners

<table>
<thead>
<tr>
<th>Award</th>
<th>Title</th>
</tr>
</thead>
</table>
| Best paper                | Efficient Feature Embeddings for Student Classification with Variational Auto-encoders  
  Severin Klingler, Rafael Wampfler, Tanja Kser, Barbara Solenthaler and Markus Gross |
| Best student paper        | Generalizability of Face-Based Mind Wandering Detection Across Task Contexts  
  Angela Stewart, Nigel Bosch and Sidney D'Mello                         |
| Best paper nominees       | Zone out no more: Mitigating mind wandering during computerized reading  
  Sidney D’Mello, Caitlin Mills, Robert Bixler and Nigel Bosch            |
|                           | Efficient Feature Embeddings for Student Classification with Variational Auto-encoders  
  Severin Klingler, Rafael Wampfler, Tanja Kser, Barbara Solenthaler and Markus Gross |
|                           | Generalizability of Face-Based Mind Wandering Detection Across Task Contexts  
  Angela Stewart, Nigel Bosch and Sidney D’Mello                         |
|                           | Towards Closing the Loop: Bridging Machine-induced Pedagogical Policies to Learning Theories  
  Guojing Zhou, Jianzun Wang, Collin Lynch and Min Chi                  |
|                           | The Misidentified Identifiability Problem in Bayesian Knowledge Tracing  
  Shayan Doroudi and Emma Brunskill                                     |
| Best Poster Award         | Identifying the relationships Between Students’ Questions Type and Their Behavior  
  Fatima Harrak, Francois Bouchet and Vanda Luengo                       |

Proceedings of the 10th International Conference on Educational Data Mining
# Table of Contents

## Invited Talks (abstracts)

Can AI help MOOCs? .......................................................... 1  
*Jie Tang*

The evolution of virtual tutors, clinician, and companions: A 20-year perspective on conversational agents in real-world applications .......................... 2  
*Ronald Cole*

## JEDM Track Journal Papers (abstracts)

Identifiability of the Bayesian Knowledge Tracing Model .................. 3  
*Junchen Feng*

RiPLE: Recommendation in Peer-Learning Environments Based on Knowledge Gaps and Interests .......................................................... 4  
*Hassan Khosravi, Kendra Cooper and Kirsty Kitto*

Modeling Wheel-spinning and Productive Persistence in Skill Builders ........... 5  
*Shimin Kai, Ma. Victoria Almeda, Ryan Baker, Nicole Shechtman, Cristina Heffernan and Neil Heffernan*

Modeling MOOC Student Behavior With Two-Layer Hidden Markov Models ........ 6  
*Chase Geigle and Chengxiang Zhai*

Closing the loop: Automated data-driven cognitive model discoveries lead to improved instruction and learning ........................................ 7  
*Ran Liu and Kenneth Koedinger*

## Full Papers

Zone out no more: Mitigating mind wandering during computerized reading .......... 8  
*Sidney D’Mello, Caitlin Mills, Robert Bixler and Nigel Bosch*

Measuring Similarity of Educational Items Using Data on Learners’ Performance .... 16  
*Jiří Říháč and Radek Pelánek*

Adaptive Sequential Recommendation for Discussion Forums on MOOCs using Context Trees .......................................................... 24  
*Fei Mi and Boi Faltings*

Analysis of problem-solving behavior in open-ended scientific-discovery game challenges... 32  
*Aaron Bauer, Jeff Flatten and Zoran Popović*

The Antecedents of and Associations with Elective Replay in An Educational Game: Is Replay Worth It? .......................................................... 40  
*Zhongxiu Liu, Christa Cody, Tiffany Barnes, Collin Lynch and Teomara Rutherford*

Grade Prediction with Temporal Course-wise Influence ......................... 48  
*Zhiyun Ren, Xia Ning and Huzefa Rangwala*
Toward the Automatic Labeling of Course Questions for Ensuring their Alignment with Learning Outcomes ................................................................................................. 56
  S. Supraja, Kevin Hartman, Sivanagaraja Tatinati and Andy Khong

Behavior-Based Latent Variable Model for Learner Engagement .......................... 64
  Andrew Lan, Christopher Brinton, Tsung-Yen Yang and Mung Chiang

Efficient Feature Embeddings for Student Classification with Variational Auto-encoders... 72
  Severin Klingler, Rafael Wampfler, Tanja Küser, Barbara Solenthaler and Markus Gross

Predicting Short- and Long-Term Vocabulary Learning via Semantic Features of Partial Word Knowledge ................................................................. 80
  Sungjin Nam, Gwen Frishkoff and Kevyn Collins-Thompson

Generalizability of Face-Based Mind Wandering Detection Across Task Contexts ........ 88
  Angela Stewart, Nigel Bosch and Sidney D’Mello

Addressing Student Behavior and Affect with Empathy and Growth Mindset ............ 96
  Shamya Karumbaiah, Rafael Lizarralde, Danielle Allessio, Beverly Woolf and Ivon Arroyo

Epistemic Network Analysis and Topic Modeling for Chat Data from Collaborative Learning Environment ......................................................... 104
  Zhiquang Cai, Brendan Eagan, Nia Dowell, James Pennebaker, Arthur Graesser and David Shaffer

Towards Closing the Loop: Bridging Machine-induced Pedagogical Policies to Learning Theories ................................................................. 112
  Guojing Zhou, Jianxun Wang, Collin Lynch and Min Chi

On the Influence on Learning of Student Compliance with Prompts Fostering Self-Regulated Learning .............................................................................. 120
  Sébastien Lallé, Cristina Conati, Roger Azevedo, Michelle Taub and Nicholas Mudrick

Assessing Computer Literacy of Adults with Low Literacy Skills ............................ 128
  Andrew Olney, Dariush Bakhtiari, Daphne Greenberg and Arthur Graesser

Towards reliable and valid measurement of individualized student parameters .......... 135
  Ran Liu and Kenneth Koedinger

The Misidentified Identifiability Problem of Bayesian Knowledge Tracing ............... 143
  Shayan Doroudi and Emma Brunskill

Short Papers

An Effective Framework for Automatically Generating and Ranking Topics in MOOC Videos ........................................................................................................... 150
  Jile Zhu, Xiang Li, Zhuo Wang and Ming Zhang

Grouping Students for Maximizing Learning from Peers ........................................ 156
  Rakesh Agrawal, Sharad NANDANWAR and Narasimha Murti Musti

Assessing the Dialogic Properties of Classroom Discourse: Proportion Models for Imbalanced Classes ........................................................................... 162
  Andrew Olney, Borhan Samei, Patrick Donnelly and Sidney D’Mello
When and who at risk? Call back at these critical points. .................................................. 168

Yuntao Li, Chengzhen Fu and Yan Zhang

Characterizing Collaboration in the Pair Program Tracing and Debugging Eye-Tracking Experiment: A Preliminary Analysis .................................................. 174

Maureen Villamor and Ma. Mercedes Rodrigo

Linking Language to Math Success in a Blended Course .................................................. 180

Scott Crossley, Tiffany Barnes, Collin Lynch and Danielle McNamara

Task and Timing: Separating Procedural and Tactical Knowledge in Student Models .... 186

Joshua Cook, Collin Lynch, Andrew Hicks and Behrooz Mostafavi

Evaluation of a Data-driven Feedback Algorithm for Open-ended Programming ........ 192

Thomas Price, Rui Zhi and Tiffany Barnes

Making the Grade: How Learner Engagement Changes After Passing a Course .......... 198

David Lang, Ben Domingue, Alex Kindel and Andreas Paepcke

Using a Single Model Trained across Multiple Experiments to Improve the Detection of Treatment Effects ................................................................. 202

Thanaporn Patikorn, Douglas Selent, Neil Heffernan, Joseph Beck and Jian Zou

Data-Mining Textual Responses to Uncover Misconception Patterns .................... 208

Joshua Michalenko, Andrew Lan, Andrew Waters, Phillip Grimaldi and Richard Baraniuk

Automated Assessment for Scientific Explanations in On-line Science Inquiry ........ 214

Haiying Li, Janice Gobert and Rachel Dickler

Can Typical Behaviors Identified in MOOCs be Discovered in Other Courses? ........ 220

Truong-Sinh An, Christopher Krauss and Agathe Merceron

Gaze-based Detection of Mind Wandering during Lecture Viewing ....................... 226

Stephen Hutt, Jessica Hardey, Robert Bizler, Angela Stewart, Evan Risko and Sidney D’Mello

Sequence Modelling For Analysing Student Interaction with Educational Systems .... 232

Christian Hansen, Casper Hansen, Niklas Hjuler, Stephen Alstrup and Christina Lioma

Predicting Prospective Peer Helpers to Provide Just-In-Time Help to Users in Question and Answer Forums ...................................................... 238

Oluwabukola Ishola and Gordon McCalla

Combining Machine Learning and Natural Language Processing Approach to Assess Literary Text Comprehension .................................................. 244

Renu Balyan, Kathryn McCarthy and Danielle McNamara

Predicting Student Retention from Behavior in an Online Orientation Course .......... 250


Inferring Frequently Asked Questions from Student Question Answering Forums .... 256

Renuka Sindhgatta, Smit Marvaniya, Tejas Dhamecha and Bikram Sengupta
On the Prevalence of Multiple-Account Cheating in Massive Open Online Learning

Yingying Bao, Guanliang Chen and Claudia Hauff

Clustering Student Sequential Trajectories Using Dynamic Time Wrapping

Shitian Shen and Min Chi

Learner Affect Through the Looking Glass: Characterization and Detection of Confusion in Online Courses

Ziheng Zeng, Snigdha Chaturvedi and Suma Bhat

Modeling Classifiers for Virtual Internships Without Participant Data

Dipesh Gautam, Zachari Swiecki, David Shaffer, Vasile Rus and Arthur Graesser

Convolutional Neural Network for Automatic Detection of Sociomoral Reasoning Level

Ange Adrienne Nyamen Tato, Roger Nkambou and Aude Dufresne

A Latent Factor Model For Instructor Content Preference Analysis

Jack Wang, Andrew Lan, Phillip Grimaldi and Richard Baraniuk

Mining Innovative Augmented Graph Grammars for Argument Diagrams through Novelty Selection

Linting Xue, Collin Lynch and Min Chi

An Extended Learner Modeling Method to Assess Students' Learning Behaviors

Yi Dong and Gautam Biswas

Estimating Individual Treatment Effect from Educational Studies with Residual Counterfactual Networks

Siyuan Zhao and Neil Heffernan

Online Learning Persistence and Academic Achievement

Ying Fang, Benjamin Nye, Philip Pavlik Jr., Yonghong Xu, Arthur Graesser and Xiangen Hu

Using Temporal Association Rule Mining to Predict Dyadic Rapport in Peer Tutoring

Michael Madaio, Rae Lasko, Justine Cassell and Amy Ogan

Learning to Represent Student Knowledge on Programming Exercises Using Deep Learning

Lisa Wang, Angela Sy, Larry Liu and Chris Piech

Development of a Trajectory Model for Visualizing Teacher ICT Usage Based on Event Segmentation Data

Longwei Zheng, Rui Shi, Xiaqing Gu, Bingcong Wu and Yuanyuan Feng

Posters

Modeling Network Dynamics of MOOC Discussion Interactions at Scale

Jingjing Zhang and Maxim Skryabin

Studying MOOC Completion at Scale Using the MOOC Replication Framework

Juan Miguel Andres, Ryan Baker, George Siemens, Dragan Gašević, Catherine Spann and Scott Crossley
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text analysis with LIWC and Coh-Metrix: Portraying MOOCs Instructors</td>
<td>400</td>
</tr>
<tr>
<td>Junyi Li, Yun Tang, Lijun Sun and Xiangen Hu</td>
<td></td>
</tr>
<tr>
<td>Identifying relationships between students’ questions type and their</td>
<td>402</td>
</tr>
<tr>
<td>behavior</td>
<td></td>
</tr>
<tr>
<td>Fatima Harrak, François Bouchet and Vanda Luengo</td>
<td></td>
</tr>
<tr>
<td>Metacognitive Prompt Overdose: Positive and Negative Effects of Prompts in iSTART</td>
<td>404</td>
</tr>
<tr>
<td>Kathryn McCarthy, Amy Johnson, Aaron Likens, Zachary Martin and Danielle McNamara</td>
<td></td>
</tr>
<tr>
<td>Tracking Online Reading of College Students</td>
<td>406</td>
</tr>
<tr>
<td>Andrew Olney, Eric Hosman, Arthur Graesser and Sidney D’Mello</td>
<td></td>
</tr>
<tr>
<td>Dropout Prediction in MOOCs using Learners’ Study Habits Features</td>
<td>408</td>
</tr>
<tr>
<td>Wan Han, Jun Ding, Xiaopeng Gao and David Pritchard</td>
<td></td>
</tr>
<tr>
<td>Exploring the Relationship Between Student Pre-knowledge and Engagement in MOOC Class Using Polytomous IRT</td>
<td>410</td>
</tr>
<tr>
<td>Jingxuan Liu and Hongli Li</td>
<td></td>
</tr>
<tr>
<td>An Analysis of Students’ Questions in MOOCs Forums</td>
<td>412</td>
</tr>
<tr>
<td>Meng Cao, Yun Tang and Xiangen Hu</td>
<td></td>
</tr>
<tr>
<td>Tutorials</td>
<td></td>
</tr>
<tr>
<td>Real-time programming exercise feedback in MOOCs</td>
<td>414</td>
</tr>
<tr>
<td>Zhenghao Chen, Andy Nguyen, Amory Schlender and Jiquan Ngiam</td>
<td></td>
</tr>
<tr>
<td>Why data standards are critical for EDM and AIED</td>
<td>416</td>
</tr>
<tr>
<td>Xiangen Hu, Robby Robson and Aaron Barr</td>
<td></td>
</tr>
<tr>
<td>Tutorial: Principal Stratification for EDM Experiments</td>
<td>418</td>
</tr>
<tr>
<td>Adam Sales</td>
<td></td>
</tr>
<tr>
<td>Whitebox: A Device To Assist Group Work Evaluation</td>
<td>420</td>
</tr>
<tr>
<td>Daisuke Yukita</td>
<td></td>
</tr>
<tr>
<td>Understanding Student’s Reviewing and Reflection Behaviors Using Web-based Programming Grading Assistant</td>
<td>422</td>
</tr>
<tr>
<td>Yancy Vance Paredes, Po-Kai Huang and Sharon Hsiao</td>
<td></td>
</tr>
<tr>
<td>Doctoral Consortium</td>
<td></td>
</tr>
<tr>
<td>A Framework for the Estimation of Students’ Programming Abilities</td>
<td>424</td>
</tr>
<tr>
<td>Ella Albrecht</td>
<td></td>
</tr>
<tr>
<td>Student Use of Inquiry Simulations in Middle School Science</td>
<td>427</td>
</tr>
<tr>
<td>Elizabeth McBride</td>
<td></td>
</tr>
<tr>
<td>Developing Chinese Automated Essay Scoring Model to Assess College Students’ Essay Quality</td>
<td>430</td>
</tr>
<tr>
<td>Yu-Ju Lu, Bor-Chen Kuo and Kai-Chih Pai</td>
<td></td>
</tr>
<tr>
<td>Teaching Informal Logical Fallacy Identification with a Cognitive Tutor</td>
<td>433</td>
</tr>
<tr>
<td>Nicholas Diana, John Stamper and Kenneth Koedinger</td>
<td></td>
</tr>
</tbody>
</table>
Automated Extraction of Results from Full Text Journal Articles ............................. 436
R. Wes Crues

Intelligent Argument Grading System for Student-produced Argument Diagrams .......... 439
Linting Xue

Industry Track

Dropout Prediction in Home Care Training ............................................................. 442
Wenjun Zeng, Si-Chi Chin, Brenda Zeimet, Rui Kuang and Chih-Lin Chi

Few hundred parameters outperform few hundred thousand? ............................. 448
Amar Lalwani and Sweety Agrawal

Tell Me More: Digital Eyes to the Physical World for Early Childhood Learning ....... 454
Vijay Ekambaram, Ruhi Sharma Mittal, Prasenjit Dey, Ravindranath Kokku, Aditya
K Sinha and Satya V Nitta

Student Learning Strategies to Predict Success in an Online Adaptive Mathematics
Tutoring System ........................................................................................................... 460
Jun Xie, Shirin Mojarad, Keith Shubeck, Alfred Essa, Ryan Baker and Xiangen Hu

Adaptive Assessment Experiment in a HarvardX MOOC ................................. 466
Ilia Rushkin, Yigal Rosen, Andrew Ang, Colin Fredericks, Dustin Tingley, Mary Jean
Blink and Glenn Lopez

Workshops

Graph-based Educational Data Mining ........................................................................ 472
Collin Lynch, Tiffany Barnes, Linting Xue and Niki Gitinabard

Workshop on deep learning with educational data ...................................................... 474
Joseph Beck, Min Chi and Ryan Baker

Sharing and Reusing Data and Analytic Methods with LearnSphere .................... 476
Ran Liu, Kenneth Koedinger, John Stamper and Philip Pavlik Jr.