Educational Psychology®

November 2013

Volume 105 Number 4

www.apa.org/pubs/journals/edu

Sidney D'Mello

	Special Issue: Advanced Learning Technologies	
	Guest Editors: Vincent Aleven, Carole R. Beal, and Arthur C. Graesser	
929	Introduction to the Special Issue on Advanced Learning Technologies Vincent Aleven, Carole R. Beal, and Arthur C. Graesser	
932	Using Adaptive Learning Technologies to Personalize Instruction to Student Interests: The Impact of Relevant Contexts on Performance and Learning Outcomes Candace A. Walkington	
946	Generalizing Automated Detection of the Robustness of Student Learning in an Intelligent Tutor for Genetics Ryan S. J. d. Baker, Albert T. Corbett, and Sujith M. Gowda	
957	Gender Differences in the Use and Benefit of Advanced Learning Technologies for Mathematics Ivon Arroyo, Winslow Burleson, Minghui Tai, Kasia Muldner, and Beverly Park Woolf	
970	A Meta-Analysis of the Effectiveness of Intelligent Tutoring Systems on K-12 Students' Mathematical Learning Saiying Steenbergen-Hu and Harris Cooper	
988	Using Student Interactions to Foster Rule-Diagram Mapping During Problem Solving in an Intelligent Tutoring System Kirsten R. Butcher and Vincent Aleven	
1010	Writing Pal: Feasibility of an Intelligent Writing Strategy Tutor in the High School Classroom Rod D. Roscoe and Danielle S. McNamara	
1026	Learning Intercultural Communication Skills With Virtual Humans: Feedback and Fidelity H. Chad Lane, Matthew Jensen Hays, Mark G. Core, and Daniel Auerbach	
1036	Motivation and Performance in a Game-Based Intelligent Tutoring System G. Tanner Jackson and Danielle S. McNamara	
1050	The Impact of Individual, Competitive, and Collaborative Mathematics Game Play on Learning, Performance, and Motivation Jan L. Plass, Paul A. O'Keefe, Bruce D. Homer, Jennifer Case, Elizabeth O. Hayward, Murphy Stein, and Ken Perlin	
1067	Guiding Learners Through Technology-Based Instruction: The Effects of Adaptive Guidance Design and Individual Differences on Learning Over Time	
1000	Adam M. Kanar and Bradford S. Bell	
1082	A Selective Meta-Analysis on the Relative Incidence of Discrete Affective States During Learning With Technology	

© 2013 American Psychological Association

1100	Next-Generation Environments for Assessing and Promoting Complex Science Learning Edys S. Quellmalz, Jodi L. Davenport, Michael J. Timms, George E. DeBoer, Kevin A. Jordan, Chun-Wei Huang, and Barbara C. Buckley
1115	My Science Tutor: A Conversational Multimedia Virtual Tutor Wayne Ward, Ron Cole, Daniel Bolaños, Cindy Buchenroth-Martin, Edward Svirsky, and Tim Weston
1126	A Tutoring System That Simulates the Highly Interactive Nature of Human Tutoring Sandra Katz and Patricia L. Albacete
1142	Human and Automated Assessment of Oral Reading Fluency Daniel Bolaños, Ron A. Cole, Wayne H. Ward, Gerald A. Tindal, Jan Hasbrouck, and Paula J. Schwanenflugel
1152	Cognitive Anatomy of Tutor Learning: Lessons Learned With SimStudent Noboru Matsuda, Evelyn Yarzebinski, Victoria Keiser, Rohan Raizada, William W. Cohen, Gabriel J. Stylianides, and Kenneth R. Koedinger
1164	Gendered Socialization With an Embodied Agent: Creating a Social and Affable Mathematics Learning Environment for Middle-Grade Females Yanghee Kim and Jae Hoon Lim
1175	Live Webcam Coaching to Help Early Elementary Classroom Teachers Provide Effective Literacy Instruction for Struggling Readers: The Targeted Reading Intervention Lynne Vernon-Feagans, Kirsten Kainz, Amy Hedrick, Marnie Ginsberg, and Steve Amendum
1188	Using Electronic Portfolios to Foster Literacy and Self-Regulated Learning Skills in Elementary Students Philip C. Abrami, Vivek Venkatesh, Elizabeth J. Meyer, and C. Anne Wade
1210	Universal Design for Learning and Elementary School Science: Exploring the Efficacy, Use, and Perceptions of a Web-Based Science Notebook Gabrielle Rappolt-Schlichtmann, Samantha G. Daley, Seoin Lim, Scott Lapinski, Kristin H. Robinson, and Mindy Johnson

Other

iii	Acknowledgments ,
1125	Call for Nominations
931	Correction to Aleven, Beal, and Graesser (2013)
1025	Correction to Hernandez et al. (2013)
1226	Instructions to Authors
1066	New Editors Appointed, 2015–2020