

ITS
2014
5 - 9 June



**12th International Conference on
Intelligent Tutoring Systems**
"Creating Fertile Soil for Learning Interactions"

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ΕΥΜΒΟΥΛΟΙ

ITS 2014 Conference Program ♦ Saturday June 7th 2014 ♦ Day 1 (1/2)

	ROOM 1 (Garden Lanai)	ROOM 2 (Ilima Room)	ROOM 3 (Plumeria)
08:00	Registration		
08:30	Breakfast buffet opens at 8:30. Participants seated by 8:45am at breakfast tables for start of program (Garden Lanai)		
08:45	Welcome Session and Announcement of Best Paper Nominees (Garden Lanai)		
09:00	Keynote: Carolyn Rosé (Garden Lanai)		
10:00	5 min transition time		
10:05	<p>Affect Detectors (Chair: Art Graesser)</p> <p>25m Luc Paquette, Ryan Baker, Michael Sao Pedro, Janice Gobert, Lisa Rossi, Adam Nakama & Zakkai Kauffman-Rogoff. Sensor-Free Affect Detection for a Simulation-Based Science Inquiry Learning Environment</p> <p>25m Caitlin Mills, Nigel Bosch & Sidney D'Mello. To Quit or Not to Quit: Predicting Future Behavioral Disengagement from Reading Patterns</p> <p>20m Poming Lee, Sin-Yu Jheng & Tzu-Chien Hsiao. Towards Automatically Detecting Whether Student Is In Flow</p>	<p>Problem Solving & Strategies (Chair: Bruce M. McLaren)</p> <p>25m Caitlin Tenison & Christopher MacLellan. Modeling Strategy Use in an Intelligent Tutoring System: Implications for Strategic Flexibility</p> <p>25m Mihai Dascalu, Philippe Dessus, Maryse Bianco & Stefan Trausan-Matu. Are Automatically Identified Reading Strategies Reliable Predictors of Comprehension?</p> <p>20m Satabdi Basu, John Kinnebrew & Gautam Biswas. Assessing student performance in a computational-thinking based environment for learning science</p>	<p>Building & Evaluating Support I (Chair: Riichiro Mizoguchi)</p> <p>25m Rohit Kumar, Matthew Roy, Bruce Roberts & John Makhoul. Towards Automatically Building Tutor Models using Multiple Behavior Demonstrations</p> <p>20m Angel Conde, Mikel Larrañaga, Ana Arruarte & Jon A. Elorriaga. Testing Language Independence in the Semiautomatic Construction of Educational Ontologies</p> <p>25m Christopher Maclellan, Kenneth Koedinger & Noboru Matsuda. Authoring Tutors with SimStudent: An Evaluation of Efficiency and Model Quality</p>
11:15	Coffee break		
11:40	<p>Graphical Representations & Learning I (Chair: Collin Lynch)</p> <p>25m Whitney Cade, Jaclyn Maass, Patrick Hays & Andrew Olney. Animated Presentation of Pictorial and Concept Map Media in Biology</p> <p>25m Martina Rau & Amanda Evenstone. Multi-Methods Approach for Domain-Specific Grounding: An ITS for Connection Making in Chemistry</p>	<p>Scalable Assessment (Chair: Sidney D'Mello)</p> <p>25m Michael Sao Pedro, Janice Gobert & Cameron Betts. Towards Scalable Assessment of Performance-Based Skills: Generalizing a Detector of Systematic Science Inquiry to a Simulation with a Complex Structure</p> <p>25m Zahra Rahimi, Diane Litman, Richard Correnti, Lindsay Clare Matsumura, Elaine Wang & Zahid Kisa. Automatic Assessment of Writing Analytically In Response To Text</p>	<p>Game- Based Learning (Chair: Peter Hastings)</p> <p>20m Kazuhisa Miwa, Junya Morita, Hitoshi Terai, Nana Kanzaki, Kazuaki Kojima, Ryuichi Nakaïke & Hitomi Saito. Use of a Cognitive Simulator to Enhance Students' Mental Simulation Activities</p> <p>20m Seiji Isotani, Geiser Chalco & Riichiro Mizoguchi. Towards an Ontology for Gamifying Collaborative Learning Scenarios: The Definition of player roles and game mechanics</p> <p>20m Jonathan Rowe, Eleni Lobene, Bradford Mott & James Lester. Serious Games Go Informal: A Museum-Centric Perspective on Intelligent Game-Based Learning</p>
12:40	Lunch Buffet 12:40-13:00. Participants seated by 13:00 for lunch and keynote speech. Keynote: Dan Suthers (Garden Lanai)		
14:00	10 min transition time		
14:10	<p>Metacognition (Chair: Neil Heffernan)</p> <p>25m Kurt Vanlehn, Winslow Burleson, Sylvie Girard, Yoalli Hidalgo-Pontet & Lishan Zhang. The Affective Meta-Tutoring project: Lessons Learned</p> <p>25m Kristopher Kopp, Robert Bixler & Sidney D'Mello. Identifying Learning Conditions that Minimize Mind Wandering by Modeling Individual Attributes</p> <p>25m Noboru Matsuda, Cassondra L. Griger, Nikolaos Barbalios, Gabriel Stylianides, William W. Cohen & Kenneth R. Koedinger. Investigating the Effect of Meta-Cognitive Scaffolding for Learning by Teaching</p>	<p>Dialogue I (Chair: Diane Litman)</p> <p>25m Alexandria Vail & Kristy Boyer. Identifying Effective Moves in Tutoring: On the Refinement of Dialogue Act Annotation Schemes</p> <p>25m Min Chi, Pamela Jordan & Kurt Vanlehn. When is Tutorial Dialogue More Effective Than Step-based Tutoring?</p> <p>25m David Adamson, Akash Bharadwaj, Ashudeep Singh, Colin Ashe, David Yaron & Carolyn Rose. Predicting Student Learning from Conversational Cues</p>	<p>Data Mining I (Chair: Kalina Yacef)</p> <p>25m Samad Kardan, Ido Roll & Cristina Conati. The usefulness of log based clustering in a complex simulation environment</p> <p>25m Michael Eagle & Tiffany Barnes. Survival Analysis on Duration Data in Intelligent Tutors</p> <p>25m Tanja Käser, Severin Klingler, Alexander Gerhard Schwing & Markus Gross. Beyond Knowledge Tracing: Modeling skill topologies with Bayesian networks</p>

ITS 2014 Conference Program ♦ Saturday June 7th 2014 ♦ Day 1 (2/2)

15:25	Coffee break		
15:55	<p>Collaborative Learning (Chair: Amy Ogan)</p> <p>25m Yugo Hayashi. Togetherness: Multiple Pedagogical Conversational Agents as Companions in Collaborative Learning</p> <p>25m Nia Dowell, Whitney Cade, Yla Tausczik, Jamie Pennebaker & Arthur Graesser. What Works: Creating Adaptive and Intelligent Systems for Collaborative Learning Support (AICLS) systems</p> <p>25m Jennifer Olsen, Daniel Belenky, Vincent Alevan & Nikol Rummel. Using an Intelligent Tutoring System to Support Collaborative as well as Individual Learning</p>	<p>Game- Based Learning I (Chair: Jonathan Rowe)</p> <p>25m Andrew Head & Jingtao Wang. ToneWars: Connecting Second Language Learners and Native Speakers in Collaborative Mobile Games</p> <p>25m Yanjin Long & Vincent Alevan. Gamification of Joint Student/System Control Over Problem Selection in a Linear Equation Tutor</p> <p>25m Matthew Easterday & I. Yelee Jo. Replay penalties in cognitive games</p>	<p>Building and Evaluating Support II (Chair: Roger Nkambou)</p> <p>20m Mingyu Feng, Jeremy Roschelle, Neil Heffernan, Janet Fairman & Robert Murphy. Implementation of an Intelligent Tutoring System for Online Homework Support At Large Scale</p> <p>20m Cecilia Estela Giuffra Palomino, Ricardo Azambuja Silveira & Marina Keiko Nakayama. An intelligent LMS model based on Intelligent Tutoring Systems</p> <p>20m Matej Zapusek, Martin Mozina, Ivan Bratko, Joze Rugelj & Matej Guid. Designing an Interactive Teaching Tool with ABML Knowledge Refinement Loop</p> <p>20m Benjamin Nye. Barriers to ITS Adoption: A Systematic Mapping Study</p>
17:15	<p>Panel Session: ITS and Learning@Scale (Garden Lanai) Moderator: Beverly Woolf Panelists: Claude Frasson, Carolyn Rose, James Lester, Sidney D'Mello, Luc Paquette</p>		
18:15	<p align="center">Poster Session I (18:15-19:30) (Garden Lanai)</p> <ul style="list-style-type: none"> • Po-Ming Lee, Sin-Yu Jheng & Tzu-Chien Hsiao. Towards Flow Theory on the Design of a Tutoring System for Improving Affective Quality • Matthew Bojey, Bowen Hui & Robert Campbell. Engaging Higher Order Thinking Skills with a Personalized Physics Tutoring System • Andrew Clayphan, Roberto Martinez-Maldonado, Judy Kay & Susan Bull. ScriptStorm-OLM: Scaffolding Reflection for Collaborative Group Brainstorming • Haiying Li, Ying Duan, Danielle Clewley, Brent Morgan, Arthur Graesser, David Williamson Shaffer & Jenny Saucerman. Question Asking During Collaborative Problem Solving in an Online Game Environment • Joao Carlos Gluz, Luis Rodrigo Jardim Da Silva & Rosa Maria Vicari. Aligning ontologies to bring semantics to learning object search • Xiaoxi Xu, Tom Murray, Beverly Woolf & David Smith. Social Network Signatures of Effective Online Communication • Ted Carmichael, Mirsad Hadzikadic, Mary Jean Blink & John Stamper. A Multi-Level Complex Adaptive System Approach for Modeling of Schools • Diego Zapata-Rivera, Tanner Jackson, Lei Liu, Maria Bertling, Margaret Vezzu & Irvin R. Katz. Assessing Science Inquiry Skills using Trialogues • David Joyner & Ashok Goel. Attitudinal Gains from Engagement with Metacognitive Tutors in an Exploratory Learning Environment • Jason Harley & Roger Azevedo. Understanding Students' Emotions during Interactions with Advanced Agent-based Learning Environments: A Selective Review • Dominique Leclet-Groux & Ismail Hassan-Djillal. Authoring System to Design Pedagogical Devices: the SAPRISTI System • Vincenzo Cannella, Laura Fedeli, Arianna Pipitone, Roberto Pirrone & Pier Giuseppe Rossi. Fostering Teacher-Student Interaction and Learner Autonomy by the I-TUTOR Maps • Nigel Bosch & Sidney D'Mello. It Takes Two: Momentary Co-occurrence Of Affective States during Computerized Learning • Masato Soga, Suguru Yamada & Hirokazu Taki. A Learning Environment for Drawing Human Body by Showing Error Awareness of Bones and Contours 	<p align="center">ITS Steering Committee Meeting (18:15-19:15) (Plumeria)</p>	
19:30	Welcome Cocktail		

ITS 2014 Conference Program ♦ Sunday June 8th 2014 ♦ Day 2 (1/2)

	ROOM 1 (Garden Lanai)	ROOM 2 (Carnation)	ROOM 3 (Plumeria)
08:30	Breakfast buffet opens at 8:30. Participants seated by 8:45am at breakfast tables for start of program (Garden Lanai)		
08:45	Presentation of Best Paper Awards (Garden Lanai)		
09:00	Keynote: Claude Frasson		
10:00	5 min transition time		
10:05	<p>Affect & Multimodality (Chair: Ruth Wylie)</p> <p>25m Natasha Jaques, Cristina Conati, Jason Harley & Roger Azevedo. Predicting Affect from Gaze Data During Interaction with an Intelligent Tutoring System</p> <p>25m Blair Lehman & Arthur Graesser. Impact of Agent Role on Confusion Induction and Learning</p> <p>20m Nigel Bosch, Yuxuan Chen & Sidney D'Mello. It's Written On Your Face: Detecting Affective States while Learning Computer Programming from Video</p>	<p>Building and Evaluating Support III (Chair: William Swartout)</p> <p>20m Roberto Martinez-Maldonado, Judy Kay, Kalina Yacef & Andrew Clayphan. MTFeedback: providing notifications to enhance teacher's awareness of small-group work in the classroom</p> <p>20m I-Han Hsiao, Shuguang Han, Manav Malhotra & Hui Soo Chae. Learning & Designing Scientifically Sound Surveys</p> <p>20m Jennifer Olsen, Daniel Belenky, Vincent Alevan, Nikol Rummel, Jonathan Sewall & Michael Ringenberg. Authoring Tools for Collaborative Intelligent Tutoring System Environments</p> <p>20m Javier Gonzalez-Sanchez & Maria Elena Chavez-Echeagaray. A System Architecture for Affective Meta Intelligent Tutoring Systems</p>	<p>Data Mining II (Chair: John Stamper)</p> <p>20m Yang Chen, Pierre-Henri Wuillemin & Jean-Marc Labat. Bayesian Student Modeling Improved by Diagnostic Items</p> <p>20m William J. Hawkins, Neil T. Heffernan & Ryan S.J.D. Baker. Learning Bayesian Knowledge Tracing Parameters with a Knowledge Heuristic and Empirical Probabilities</p> <p>20m Junjie Gu, Hang Cai & Joseph Beck. Investigate Performance of Expected Maximization on the Knowledge Tracing Model</p> <p>20m Ma.Mercedes Rodrigo & Joseph Beck. Understanding wheel spinning in the context of affective factors</p>
11:25	Coffee break		
11:45	<p>Graphical Representations & Learning II (Chair: Martina Rau)</p> <p>20m Michael Lipschultz & Diane Litman. Modeling Student Benefit from Illustrations and Graphs</p> <p>20m Bert Bredeweg, Christina Nicolaou, Jochem Liem & Constantinos Constantinou. Towards Assessing And Grading Learner Created Conceptual Models</p> <p>20m Enruo Guo, Stephen Gilbert, John Jackman, Gloria Starns, Mathew Hagge, Leann Faidly & Mostafa Amin-Naseri. StaticsTutor: A Free-Body Diagram Tutor for Problem Framing</p>	<p>Dialogue II (Chair: Pam Jordan)</p> <p>20m Mihai Dascalu, Stefan Trausan-Matu & Philippe Dessus. Validating the Automated Assessment of Participation and of Collaboration in Chat Conversations</p> <p>20m Borhan Samei, Haiying Li, Fazel Keshtkar, Vasile Rus & Art Graesser. Context-based Speech Act Classification in Intelligent Tutoring Systems</p> <p>20m Vasile Rus, Art Graesser, William Baggett, Don Franceschetti, Dan Stefanescu & Nopal Niraula. Macro-Adaptivity In Conversational Intelligent Tutoring Matters</p>	<p>Young Researcher's Track Part I (Chairs: Winslow Burleson and Tsukasa Hirashima)</p> <p>20m Aaron Thomas & Phil Brucat. Phenomenography of Student Perceptions of an Online Metacognitive Tool</p> <p>20m Raja M. Suleman, Riichiro Mizoguchi & Mitsuru Ikeda. Negotiation Driven Learning: A new perspective of learning using negotiation</p> <p>20m Roya Hosseini & Peter Brusilovsky. Example- Based Problem Solving Support Using concept Analysis of Programming Content</p>
12:45	<p>12:45-13:05 access to lunch buffet; 13:05-14:15 participants seated for lunch and panel. (Garden Lanai)</p> <p>Panel on Grand Challenges for Intelligent Tutoring Systems in STEM: Progress and Perspectives. Facilitator: Ben Nye Moderator: Ray Perez Leaders: Xiangen Hu, Art Graesser, Beverly Woolf, Neil Heffernan, Kurt VanLehn, Bruce Roberts Panelists: Heather Holden, Diego Zapata-Rivera, James Lester, H. Chad Lane, Ido Roll</p>		
14:15	10 min transition time		

ITS 2014 Conference Program ♦ Sunday June 8th 2014 ♦ Day 2 (2/2)

14:25	<p>Multimodality & Affect (Chair: Sabine Graf)</p> <p>20m Nathaniel Blanchard, Robert Bixler & Sidney D'Mello. Automated Physiological-Based Detection of Mind Wandering During Learning</p> <p>20m Akihiro Kashiwara & Go Shiota. Knowledge Construction with Pseudo-Haptics</p> <p>20m Victor Giroto, Elissa Thomas, Cecil Lozano, Kasia Muldner, Winslow Burleson & Erin Walker. A Tool for Integrating Log and Video Data for Analysis and Model Generation</p> <p>20m Pierre-Olivier Brosseau, Thi-Hongdung Tran & Claude Frasson. Virtual Environment for Monitoring Emotional Behaviour in Driving</p>	<p>Discourse (Chair: Sharon Hsiao)</p> <p>20m Amruth Kumar. An Evaluation of Self-Explanation in a Programming Tutor</p> <p>20m Mohammad Hassan Falakmasir, Kevin Ashley, Christian Schunn & Diane Litman. Identifying Thesis and Conclusion Statements in Student Essays to Scaffold Peer Review</p> <p>20m Collin Lynch, Kevin Ashley & Min Chi. Can Diagrams Predict Essays?</p> <p>20m Peter Hastings, Simon Hughes, Anne Britt, Dylan Blaum & Patty Wallace. Toward automatic inference of causal structure in student essays</p>	<p>Generating Hints, Scaffolds, & Questions (Chair: Cecily Heiner)</p> <p>20m Sebastian Gross, Bassam Mokbel, Barbara Hammer & Niels Pinkwart. How to Select an Example? A Comparison of Selection Strategies in Example-Based Learning</p> <p>20m Ido Roll, Nikki Yee & Adriana Briseno. How do Students Adapt Their Behaviours to Changes in Scaffolding in an Exploratory Environment?</p> <p>20m Bruce McLaren, Tamara van Gog, Craig Ganoe, David Yaron & Michael Karabinos. Exploring the Assistance Dilemma: Comparing Instructional Support in Examples and Problems</p> <p>20m Ranilson Paiva, Ig Ibert Bittencourt, Alan Pedro Da Silva, Seiji Isotani & Patricia Jacques. A Systematic Approach for Providing Personalized Pedagogical Recommendations Based on Educational Data Mining</p>
15:45	Coffee break		
16:05	Keynote: Susanne Lajoie (Garden Lanai)		
17:05	<p>Poster Session II (17:05-18:20) (Garden Lanai)</p> <ul style="list-style-type: none"> • Ramla Ghali & Claude Frasson. A Study of learners' Brain States using a Cognitive Toolbox • Junjie Gu, Yutao Wang & Neil Heffernan. Personalizing Knowledge Tracing: Should We Individualize Slip, Guess, Prior or Learn rate? • Roberto Martinez-Maldonado, Ana Pinto & Mario Moreno-Sabido. Towards a learning ecology using modest computing technologies to address the 'banking model of education' • Raja M. Suleman, Riichiro Mizoguchi & Mitsuru Ikeda. Negotiation Driven Learning • Mary Jean Blink, John Stamper & Ted Carmichael. Student Centered Adaptive Learning Engine • Reva Freedman & Douglas Kriegbaum. Relationship Between Student Writing Complexity and Physics Learning in a Text-Based ITS • Scotty Craig, Jun Xie, Xudong Huang & Xiangen Hu. The Impact of Epistemological Beliefs on Student Interactions with an Intelligent Tutoring System • Pedro J. Muñoz Merino, Carlos Delgado Kloos & Manuel Fernández Molina. Analyzing Learning Gains in a Competition Intelligent Tutoring System Depending on Exercise Adaptation • Wookhee Min, Bradford Mott, Jonathan Rowe & James Lester. Leveraging Semi-Supervised Learning to Predict Student Problem-Solving Performance in Narrative-Centered Learning Environments • Valery Psyche, Jacqueline Bourdeau, Jules Mozes, Alexandre Kalemjian, Pierre Poirier & Roger Nkambou. Opening the Door to Philosophy for teachers and learners with GYM-Author • Ruth Wylie, Brandon Holding, Robert Talbot, Michelene Chi, Susan Trickett & Rodney Nielsen. Using Log Data to Predict Response Behaviors in Classroom Discussions • Hazra Imran, Mohammad Belghis-Zadeh, Ting-Wen Chang, Prof Kinshuk & Sabine Graf. A Rule-Based Recommender System to Suggest Learning Tasks • Douglas Selent & Neil Heffernan. Reducing Student Hint Use by Creating Buggy Messages from Machine Learned Incorrect Processes 		
18:25	<p>Discussion Group</p> <p>Future of ITS for STEM (All attendees welcome) (18:25-19:10) (Plumeria)</p>		
20:00	Banquet Gala (Banquet Ticket Purchase Required) - Hibiscus Ballroom I		

ITS 2014 Conference Program ♦ Monday June 9th 2014 ♦ Day 3

	ROOM 1 (Garden Lanai)	ROOM 2 (Carnation)	ROOM 3 (Ilima Room)
08:30	Breakfast buffet opens at 8:30. Participants seated by 8:45am at breakfast tables for start of program (Garden Lanai)		
09:00	Keynote: Lewis Johnson (Garden Lanai)		
10:00	5 min transition time		
10:05	<p>Young Researchers' Track Part II (Chairs: Winslow Burleson and Tsukasa Hirashima)</p> <p>20m Homa B.Hashemi & Christian D. Schunn. A Tool for Summarizing Students' Changes Across Drafts</p> <p>20m Frank Paiva & Rodney Nielsen. Comprehersion SEEDING: Comprehersion through Enhanced Discussion</p> <p>20m Eliane Wiese & Ken Koedinger. Designing Grounded Feedback for Fraction Addition</p> <p>20m Michael Eagle & Tiffany Barnes. Exploring Efficiency: Building Models of Student Time and Performance</p>	<p>Problem Solving & Strategies (Chair: Bert Bredeweg)</p> <p>20m Joao Carlos Gluz, Fabiane Pentead, Marcel Mossmann, Lucas Gomes & Rosa Maria Vicari. A Student Model for Teaching Natural Deduction based on a Prover that Mimics Student Reasoning</p> <p>20m Yutao Wang & Neil Heffernan. The Effect of Automatic Reassessment and Relearning on Assessing Student Long-term Knowledge in Mathematics</p> <p>20m Shaghayegh Sahebi, Yun Huang a&nd Peter Brusilovsky. Predicting Student Performance in Solving Parameterized Exercises</p> <p>20m Xiaolu Xiong & Joseph Beck. A Study of Exploring Different Schedules of Spacing and Retrieval Interval on Mathematics Skills in ITS Environment</p>	<p>Generating Hints, Scaffolds, & Questions II (Chair: Rohit Kumar)</p> <p>25m Wei Jin, Albert Corbett, William Lloyd, Lewis Baumstark & Christine Rolka. Evaluation of Guided-Planning and Assisted-Coding with Task Relevant Dynamic Hinting</p> <p>25m Kelly Rivers & Kenneth Koedinger. Automating Hint Generation with Solution Space Path Construction</p> <p>20m Andrew Hicks, Barry Peddycord Iii & Tiffany Barnes. Building Games To Learn From Their Players: Generating Hints in a Serious Game</p>
11:25	Coffee break		
11:45	<p>Discourse II (Chair: Scotty Craig)</p> <p>25m Huy Nguyen, Wenting Xiong & Diane Litman. Classroom Evaluation of a Scaffolding Intervention for Improving Peer Review Localization</p> <p>25m Frank Paiva, James Glenn, Karen Mazidi, Robert Talbot, Ruth Wylie, Michelene Chi, Erik Dutilly, Brandon Holding, Mingyu Lin, Susan Trickett & Rodney Nielsen. Comprehension SEEDING: Comprehension through Self Explanation, Enhanced Discussion, and Inquiry Generation</p>	<p>Question & Hint Generation (Chair: Vasile Rus)</p> <p>20m Karen Mazidi & Rodney Nielsen. Pedagogical Evaluation of Automatically Generated Questions</p> <p>20m Corentin Jouault & Kazuhisa Seta. Content-Dependent Question Generation for History Learning in Semantic Open Learning Space</p> <p>20m Timotej Lazar & Ivan Bratko. Toward automatic hint generation for programming tutors using data-driven program synthesis</p>	
12:45	Lunch buffet (Garden Lanai)		
14:00	Closing Ceremony (Garden Lanai)		
14:45	Soft Drinks and Juices		