CSCL 2013

Computer Supported Collaborative Learning

June 15–19, 2013
University of Wisconsin – Madison

To see the world *and* a grain of sand:
Learning across levels of space, time and scale

10th International Conference of
Computer Supported Collaborative Learning
Conference Program

Organizers

ISLS
International Society of
the Learning Sciences

W
School of Education
UNIVERSITY OF WISCONSIN–MADISON

Sponsors

WCER
WISCONSIN CENTER FOR EDUCATION RESEARCH

Taylor & Francis
Taylor & Francis Group

inquirium
www.inquirium.net

inscribe
simple transcription + subtitling

CSCL 2013

Conference Chair
Sadhana Puntambekar, University of Wisconsin – Madison

Program Chairs
Nikol Rummel, Ruhr Universitat Bochum, Institute of Educational Research
Manu Kapur, National Institute of Education of Singapore
Mitchell Nathan, University of Wisconsin – Madison

Graphic Designer
Allyson Casey – Wisconsin Union, University of Wisconsin – Madison

Conference Planner
Jill Schmitz – Wisconsin Union, University of Wisconsin – Madison

Computer Supported Collaborative Learning

University of Wisconsin - Madison
June 2013

Welcome

We are delighted to welcome you to the 10th International Conference on Computer Supported Collaborative Learning (CSCL) hosted by the University of Wisconsin-Madison, USA. The CSCL conference is a biannual, multidisciplinary, international meeting sponsored by the International Society for the Learning Sciences (ISLS) drawing researchers from psychology (educational, social, developmental, cognitive, linguistic, cultural-historical), the social sciences (anthropology, sociology, communication studies, philosophy of language), and design disciplines (computer and information science, curriculum and didactics), as well as researchers from AI and cognitive science.

Learning Sciences (ISLS) drawing researchers from psychology (educational, social, developmental, cognitive, linguistic, cultural-historical), the social sciences (anthropology, sociology, communication studies, philosophy of language), and design disciplines (computer and information science, curriculum and didactics), as well as researchers from AI and cognitive science.

The University of Wisconsin-Madison is an appropriate place to host such an international gathering. Education research and technological advancements for the betterment of society have long been a part of the activities that take place along the shores of beautiful Lake Mendota. The Wisconsin Center for Education Research, founded in 1964, is one of the oldest and largest education research centers in the world, with education funding of about $40 Million per year. Madison is a hotbed of educational technology research and development, and host to the annual Games + Learning + Society conference each summer. The beautiful setting and intellectually vibrant community provide a natural synergy with the presentations and scholarly interactions that take place at CSCL.

Our conference theme for CSCL 2013 is "To see the world and a grain of sand: Learning across levels of space, time, and scale." The title of our conference theme, inspired by (and modified from) William Blake's poem "Auguries of Innocence" reflects the unique aspect of CSCL in which interactions and learning need to be understood, supported and analyzed at multiple levels. We see the theoretical, methodological and technological issues of addressing learning at multiple levels to be highly relevant to current research in CSCL, and in developing emerging epistemological and methodological issues that will shape our intellectual efforts well into the future.

This theme is both important and timely, as noted by researchers in the field through several workshops and presentations at previous ISLS conference and relevant journals. At CSCL 2013, this theme is addressed through three keynote talks, which include talks by Josep Call (Max Planck Institute for Evolutionary Anthroplogy, Germany), Kori Inkpen (Microsoft Research, USA), and Justine Cassell (Carnegie Mellon University, USA). Additionally our conference theme will be showcased an invited plenary methods symposium, in pre-conference workshops as well as multiple papers and posters.

The CSCL 2013 conference comprises two days of pre-conference events with workshops and tutorials, as well as special workshops for early career researchers and doctoral students, and the main conference, lasting three days. The conference is planned to be a full and stimulating program of scholarly and social events. The main conference program comprises of 69 full papers, 52 short papers, 83 posters, 5 symposia, 5 panels, and 9 demos. The program also includes a doctoral consortium, and early career workshop and 9 preconference workshops.

A novel aspect of this year's conference is that the publication format and the presentation format are decoupled. As in past CSCL conferences, authors submitted full papers, short papers and posters to be considered for publication. At the time of submission, authors were asked to express their preference for a presentation format. The reviewers and the program committee also made recommendations as to the format. Presentation format was assigned in order to maximize the interactive conference experience, balanced by considerations of the nature of the work, author preferences, and the program committee's review process.

An important presentation format that we introduced is the interactive session format for papers, which has been designed as a collaborative format to allow for maximum interaction between authors and audience, in the spirit of collaborative learning! In every interactive session, each of four presenters give a brief 10-minute presentation, followed by 50 minutes of interaction at distributed stations. During this time, authors might bring questions to discuss with members of the audience, or bring supplementary materials for people to see, touch, and play with at their station. For the program, papers were grouped thematically by presentation format, not by publication format. Both lecture and interactive session types in the program thus include full as well as short papers.

We would like to thank the many people who contributed in several ways to this conference. Thanks go to the Wisconsin Center for Education Research, the University of Wisconsin-Madison, School of Education, and the Educational Psychology department for their generous support for this event. Also, many thanks go to the international steering committee, and the reviewers, whose effort has made this event possible.

Sadhana Puntambekar, CSCL Conference Chair
Nikol Rummel, Manu Kapur and Mitchell Nathan, Program co-chairs

Steering Committee

Conference Chair
Sadhana Puntambekar, *University of Wisconsin, Madison, USA*

Program Co-Chairs
Nikol Rummel, *Ruhr-Universität, Bochum, Germany*
Manu Kapur, *National Institute of Education, Singapore*
Mitchell Nathan, *University of Wisconsin, Madison, USA*

International Relations Co-Chairs
Chris Hoadley, *New York University, USA*
Nancy Law, *University of Hong Kong, China*
Sten Ludvigsen, *InterMedia, University of Oslo, Norway*

Preconference Workshops and Tutorials Co-Chairs
Gijsbert Erkens, *Utrecht University, Netherlands*
Chee-Kit Looi, *Nanyang Technological University, Singapore*

Demos Co-Chairs
Richard Halverson, *University of Wisconsin, Madison, USA*
Hans Spada, *University of Freiburg, Germany*
Daniel Suthers, *University of Hawai'i, USA*

Doctoral Consortium Co-Chairs
Frank Fischer, *Ludwig-Maximilians-Universität München, Germany*
Erica Halverson, *University of Wisconsin, Madison, USA*
Heisawn Jeong, *Hallym University, South Korea*
Rosemary Luckin, *Institute of Education, University of London, England*

Early Career Workshop Co-Chairs
Kristine Lund, *University of Lyon, France*
Carolyn P. Rosé, *Carnegie Melon University, USA*
Iris Tabak, *Ben Gurion University of the Negev, Israel*

Special Sessions
Cindy Hmelo-Silver, *Rutgers University, USA*
Bilge Mutlu, *University of Wisconsin, Madison, USA*

Consultants
Pierre Dillenbourg, *École Polytechnique Fédérale de Lausanne, Switzerland*
Susan Goldman, *University of Illinois, Chicago, USA*
Paul Kirschner, *Open University, Netherlands*
Tim Koschmann, *Southern Illinois University, USA*
Naomi Miyake, *University of Tokyo, Japan*
Peter Reimann, *University of Sydney, Australia*
Nancy Butler Songer, *University of Michigan, USA*
Gerry Stahl, *Drexel University, USA*

Keynote Speakers

Why Do Apes Cooperate?

Josep Call
Wolfgang Köhler Primate Research Center,
Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

Cooperation is ubiquitous in the animal kingdom and yet, humans have turned cooperation into one of their defining features. Our level of cooperation has become such that members of our species can cooperate with large numbers of genetically unrelated partners for extended periods of time, in some cases spanning generations. How did this come about over evolutionary time? In this talk, I will turn to our closest living relatives, the great apes, in an attempt to throw some light into this question. I will explore the prosocial behavior of the great apes defined as one individual doing something resulting in the benefit of another. In particular, I will present data on helping and collaboration in chimpanzees, bonobos, and orangutans and compare it with data on children presented with comparable tasks. I will use these comparative data to uncover the socio-ecological and motivational factors that determine the emergence of cooperation in humans and nonhuman apes.

Connecting Kids: The Future of Video

Kori Inkpen
Microsoft Research, USA

Understanding how kids connect with video may hold the key to delivering the long-awaited promise of video communication. Children's play is rich, creative and imaginative and research shows that children's play easily transcends distance through the use of video. And remarkably, children are extremely comfortable interacting over video. This talk highlights several recent projects that demonstrate children's rich, social interactions using video to connect with friends and family, regardless of whether they live in the same neighbourhood, or on the other side of the world. As these technologies become embedded into the fabric of daily life, video will transform children's social interactions in both learning and play, enabling them to share rich experiences in ways not possible with current technologies.

Keynote Speakers

Justine Cassell
Carnegie Mellon University, USA

Connection Machines: The Role of Rapport in Computer Supported Collaborative Learning

In thinking about the ways in which computers can support learning we often concentrate on the task or cognitive aspects of the collaboration between human and machine. However, the social nature of some of the best kinds of human-human learning interactions does not need to be left behind in human-computer collaborative learning, and understanding the social nature of human-human peer collaborative learning can help us to design computational systems that are most effective in real world contexts. To that end, in this talk I report on a series of studies that look at the building of rapport between humans over time, and between humans and computational systems. I look at the effects of this rapport building on peer learning among young children, junior highschool students, and adults, when the learning partners are actual human peers and computer peers. From the results of these studies I draw conclusions about the need for studies of actual human-human interaction to inform the design of collaborative learning technologies and, more generally, the need for models of the interaction between humans and computers to draw on not just technical but also social and cultural phenomena.

CONFERENCE OVERVIEW

Saturday, June 15, 2013

Time	Event
8:00-5:00	Registration
7:45-8:30	Breakfast
8:30-10:00	Pre-Conference Workshops & Tutorials/ Doctoral Consortium/ Early Career Workshop
10:00-10:30	Morning Break
10:30-12:00	Pre-Conference Workshops & Tutorials Doctoral Consortium Early Career Workshop
12:00-1:00	Lunch
1:00-3:00	Pre-Conference Workshops & Tutorials Doctoral Consortium Early Career Workshop
3:00-3:30	Afternoon Break
3:30-5:00	Pre-Conference Workshops & Tutorials Doctoral Consortium Early Career Workshop

Sunday, June 16, 2013

Time	Event
8:00-5:00	Registration
7:45-8:30	Breakfast
8:30-10:00	Pre-Conference Workshops & Tutorials/ Doctoral Consortium/ Early Career Workshop
10:00-10:30	Morning Break
10:30-12:00	Pre-Conference Workshops & Tutorials Doctoral Consortium Early Career Workshop
12:00-1:00	Lunch
1:00-3:00	Doctoral Consortium Early Career Workshop
3:30-4:30	ISLS Committee Meetings
5:00-7:00	Opening Keynote #1 - Josep Call Announce Award Finalists
7:00-10:00	Welcome Reception

Monday, June 17, 2013

Time	Event
8:00-5:00	Registration
7:45-8:30	Breakfast
8:30-10:00	Keynote #2 - Kori Inkpen Quinn
10:00-10:30	Morning Break
10:30-12:00	Parallel Session #1 (90 min)
12:00-1:30	Lunch ISLS Committee Meetings
1:30-3:00	Parallel Session #2 (90-min)
3:00-3:30	Afternoon Break
3:30-5:00	Keynote #3 - Justine Cassell
5:00-7:00	Poster Session #1 (120-min) & Evening Reception Announce Award WINNERS (3)
7:00-10:00	Beer & Brats on the Lakefront Terrace

Tuesday, June 18, 2013

Time	Event
8:00-5:00	Registration
7:45-8:30	Breakfast
8:30-10:00	Parallel Session #3 (90 min)
10:00-10:30	Morning Break
10:30-12:00	Parallel Session #4 (90 min)
12:00-1:30	Lunch ISLS Committee Meetings
1:30-3:00	Parallel Session #5 (90-min)
3:00-3:30	Afternoon Break
3:30-5:00	Parallel Session #6 (90-min)
5:00-7:00	Poster Session #2 (120-min) & Evening Reception
7:00-10:00	Conference Banquet

Wednesday, June 19, 2013

Time	Event
8:00-3:30	Registration
7:45-8:30	Breakfast
8:30-10:00	Parallel Session #7 (90-min)
10:00-10:30	Morning Break
10:30-12:00	
12:00-1:00	Lunch (One Hour) NAPLES: Optional Meeting
1:00-2:30	Invited Plenary session: Methods in CSCL Research
2:30-3:30	Closing Session and Open Business Meeting

Contents

Saturday June 15

Sunday June 16

Monday June 17

Tuesday June 18

Wednesday June 19

Registration

NOTE: All pre-conference workshops (except the doctoral consortium and Early Career Workshop will be held in the Education Building. All main conference events, starting with the opening keynote, will be held in the Memorial Union)

Registration Hours and Location

Saturday, June 15
8:00 AM - 5:00 PM
Education Building- 1st floor Lobby (For Workshop participants only)
Memorial Union - Annex Room (DC and ECW participants/General registration)

Sunday, June 16
8:00 AM - 5:00 PM
Education Building - 1st floor Lobby (For Workshop participants only)
Memorial Union - Annex Room (DC and ECW participants/General registration)

Monday, June 17
8:00 AM - 5:00 PM
Memorial Union - Annex Room

Tuesday, June 18
8:00 AM - 5:00 PM
Memorial Union - Annex Room

Wednesday, June 19
8:00 AM - 3:30 PM
Memorial Union - Annex Room

ISLS Meeting Schedule

Sunday, June 16   3:30 PM – 4:30 PM

ISLS Membership Committee closed meeting   Inn Wisconsin (West)
ISLS Education Committee closed meeting   Old Madison (West)
ISLS Publications Committee closed meeting   Capital View
NAPLES meeting   Beefeater

Monday, June 17   12:00 PM – 1:30 PM

ijCSCL Board Meeting   Profile

Monday, June 17   5:00 PM – 6:00 PM

Doctoral Consortium and Early Career   Reception Room
Workshop reunion

Tuesday, June 18   12:00 PM – 1:30 PM

CSCL Community Open Meeting   Inn Wisconsin

Tuesday, June 18   12:00 PM – 1:00 PM

ISLS Board closed meeting   Inn Wisconsin

Wednesday, June 19   12:00 PM – 1:00 PM

NAPLES optional meeting   Inn Wisconsin

CSCL 2013 Program

Pre-conference events: June 15 and June 16, 2013

Main Conference: June 17 – June 19, 2013

Schedule

8:00 AM - 8:30 AM	Breakfast
8:30 AM - 10:00 AM	Preconference workshops, Doctoral Consortium, Early Career Workshop *(see detailed schedule)*
10:00 AM - 10:30 AM	Morning Break
10:30 AM - 12:00 PM	Preconference workshops, Doctoral Consortium, Early Career Workshop, *cont'd*
8:30 AM - 12:00 PM	Preconference workshops, Doctoral Consortium, Early Career Workshop *(see detailed schedule)*
12:00 PM - 1:00 PM	Lunch
1:00 PM - 3:30 PM	Preconference workshops, Doctoral Consortium, Early Career Workshop, *cont'd*
3:00 PM - 3:30 PM	Afternoon Break
3:30 PM - 5:00 PM	Preconference workshops, Doctoral Consortium, Early Career Workshop, *cont'd*

Early Career Workshop   8:30 AM – 5:00 PM

Old Madison (East)

Chairs
Kristine Lund, *CNRS, University of Lyon, France*
Iris Tabak, *Education Department* Ben-Gurion *University; Beer Sheva, Israel*
Carolyn P. Rosé, *Language Technologies Institute and Human-Computer Interaction Institute, Carnegie Mellon University, Pittsburgh, USA*

Mentors
Kate Bielaczyc, *Clark University, USA*
Louis Gomez, *University of California, Los Angeles, USA*
Janet Kolodner, *Georgia Institute of Technology/The National Science Foundation, USA*
Timothy Koschmann, *Southern Illinois University, USA*
Nancy Law, *University of Hong Kong*
Armin Weinberger, *Saarland University, Saarbrücken, Germany*

Participants
Betsy DiSalvo, *Georgia Institute of Technology*
Sean Duncan, *Indiana University*
Deborah Fields, *Utah State University*
Mi Song Kim, *Nanyang Technological University*
Crystle Martin, *University of California, Irvine*
Camillia Matuk, *University of California, Berkeley*
Omid Noroozi, *Wageningen University*
Luis P. Prieto, *Universidad de Valladolid*
Beat Schwendimann, *University of Sydney*
Carmen Smith, *University of Vermont*

Doctoral Consortium   8:30 AM – 5:00 PM

Inn Wisconsin (East)

Chairs
Heisawn Jeong, *Hallym University, South Korea*
Erica Halverson, *University of Wisconsin-Madison*
Frank Fischer, *Ludwig Maximilian University of Munich*

Mentors
Kim Gomez, University of California at Los Angeles
Eleni Kyza, *Cyprus University of Technology*
Marcia Linn, *University of California at Berkeley*
Ming Ming Chiu, *SUNY Buffalo*

Participants

Karlyn Adams-Wiggins, *Rutgers University*

Amanda E. Cravens, *Stanford University*

Alexandra L. Funk, *Ruhr-University Bochum*

Mario Gielen, *Ghent University*

Jeremiah Holden, *University of Wisconsin-Madison*

Iris Howley, *Carnegie Mellon University*

Fadoua Ouamani, *Université de Manouba*

Claire Polo, *Laboratoire ICAR*

Jessica Roberts, *University of Illinois at Chicago*

Sdenka Z. Salas-Pilco, *The University of Hong Kong*

Alexander Scholvien, *University of Duisburg-Essen*

Brian Slattery, *University of Illinois at Chicago*

Mike Tissenbaum, *University of Toronto*

Michiel Voet, *Ghent University*

Freydis Vogel, *University of Munich (LMU)*

Jennifer L. Weible, *Penn State University*

Pippa Yeoman, *University of Sydney*

Pre-Conference Workshop   8:30 AM – 5:00 PM

Across Levels of Learning: How Resources Connect Levels of Analysis
L150, L151, L155 Education Building
CHAIRS
Gerry Stahl, *Drexel University, Philadelphia, USA*
Heisawn Jeong, *Hallym University, South Korea*
Sten Ludvigsen, *University of Oslo, Norway*
R. Keith Sawyer, *Washington University in St. Louis, USA*
Daniel D. Suthers, *University of Hawaii, USA*

From Data Sharing to Data Mining: A Collaborative Project to Create Cyber-Infrastructure to Support and Improve Design Based Research in the Learning Sciences
198, 245 Education Building
CHAIRS
Alan J. Hackbarth, *University of Wisconsin Colleges, USA*;
Sharon J. Derry, *University of North Carolina – Chapel Hill, USA*;
Sadhana Puntambekar, *University of Wisconsin - Madison, USA*

Human-Computer Interaction and the Learning Sciences
L185, L177, L173 Education Building
CHAIRS
Jochen "Jeff" Rick, *Saarland University, Germany*
Michael Horn, *Northwestern University, USA*
Roberto Martinez-Maldonado, *University of Sydney, Australia*

Measuring Collaborative Thinking Using Epistemic Network Analysis
345
Chairs
David Williamson Shaffer, *University of Wisconsin-Madison*
Chandra Orrill, *University of Massachusetts Dartmouth*
Golnaz Arastoopour, *University of Wisconsin-Madison*

DUET 2013: Dual Eye Tracking in CSCL
L159
CHAIRS
Patrick Jermann, *Ecole Polytechnique Fédérale de Lausanne, Switzerland*
Darren Gergle, *Northwestern University, USA*
Roman Bednarik, *University of Eastern Finland, Finland*
Pierre Dillenbourg, *Ecole Polytechnique Fédérale de Lausanne, Switzerland*

Schedule

8:00 AM - 8:30 AM	Breakfast
8:30 AM - 10:00 AM	Preconference workshops, Doctoral Consortium, Early Career Workshop *(see detailed schedule)*
10:00 AM - 10:30 AM	Morning Break
10:30 AM - 12:00 PM	Preconference workshops, Doctoral Consortium, Early Career Workshop, *cont'd*
8:30 AM - 12:00 PM	Preconference workshops, Doctoral Consortium, Early Career Workshop *(see detailed schedule)*
12:00 PM - 1:00 PM	Lunch
1:00 PM - 3:30 PM	Preconference workshops, Doctoral Consortium, Early Career Workshop, *cont'd*
3:00 PM - 3:30 PM	Afternoon Break
3:30 PM - 5:00 PM	Preconference workshops, Doctoral Consortium, Early Career Workshop, *cont'd*

Early Career Workshop   8:30 AM – 5:00 PM
Old Madison (East)

Chairs
Kristine Lund, *CNRS, University of Lyon, France,*
Iris Tabak, *Education Department,; Ben-Gurion University; Beer Sheva, Israel*
Carolyn P. Rosé, *Language Technologies Institute and Human-Computer Interaction Institute, Carnegie Mellon University, Pittsburgh, USA*

Mentors
Kate Bielaczyc, *Clark University, USA*
Louis Gomez, *University of California, Los Angeles, USA*
Janet Kolodner, *Georgia Institute of Technology/The National Science Foundation, USA*
Timothy Koschmann, *Southern Illinois University, USA*
Nancy Law, *University of Hong Kong*
Armin Weinberger, *Saarland University, Saarbrücken, Germany*

Doctoral Consortium   8:30 AM – 5:00 PM
Inn Wisconsin (East)

Chairs
Heisawn Jeong, *Hallym University, South Korea*
Erica Halverson, *University of Wisconsin-Madison*
Frank Fischer, *Ludwig Maximilian University of Munich*

Mentors
Kim Gomez, *University of California at Los Angeles*
Eleni Kyza, *Cyprus University of Technology*
Marcia Linn, *University of California at Berkeley*
Ming Ming Chiu, *SUNY Buffalo*

Pre-conference Workshop   8:30 AM - 12:00 PM

Designing for Distributed Regulatory Processes in CSCL
L150, L151, L155 Education Building
Chairs
Elizabeth S. Charles, *Dawson College, Canada*
Mariel Miller, *University of Victoria, Canada*
Roger Azevedo, *McGill University, Montreal, Canada*
Allyson Hadwin, *University of Victoria, Victoria, Canada*
Susanne Lajoie, *McGill University, Montreal, Canada*

Computer-Supported Collaborative Learning at Work: CSCL@Work -- Bridging Learning and Work
198 Education Building
Chairs
Sean Goggins, *Drexel University, USA*
Isa Jahnke, *Umeå University, Sweden*
Thomas Hermann, *Bochum University, Germany*

Educational Game Design - Prototyping with Purpose
L159 Education Building
Chairs
Matt Gaydos, *University of Wisconsin-Madison, USA*
Kurt Squire, *Center for Games, Learning & Society/University of Wisconsin-Madison, USA*
Dennis Ramirez, *Center for Games, Learning & Society/University of Wisconsin Madison, USA*
Ryan Martinez, *University of Wisconsin-Madison, USA*
Clem Samson-Samuel, *Center for Games, Learning & Society/University of Wisconsin Madison, USA*

PISA: How Will Collaborative Problem Solving be Assessed at International Scale?
L185 Education Building
Chairs
Chee-Kit Looi, NIE, Singapore
Pierre Dillenbourg, EPFL, Switzerland

Committee Meetings   3:30 PM – 4:30 PM

ISLS Membership Committee closed meeting	Inn Wisconsin (West)
ISLS Education Committee closed meeting	Old Madison (West)
ISLS Publications Committee closed meeting	Capital View
NAPLES meeting	Beefeater

Keynote 1   5:00 PM – 7:00 PM

Great Hall

Welcome!
Julie Underwood, Dean, *School of Education*

Adam Gamoran, Director, *WCER*

Why Do Apes Cooperate?
Josep Call, *Wolfgang Köhler Primate Research Center, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany*

Chair: Nikol Rummel, Ruhr-Universität, Bochum, Germany

Opening Reception   7:00PM – 10:00 PM

Tripp Commons

Keynote 2   8:30 AM – 10:00 AM

Great Hall

Welcome!
David Kaplan, Chair, *Department of Educational Psychology*

Connecting Kids: The Future of Video
Kori Inkpen, *Microsoft Research, USA*

Chair: Sadhana Puntambekar, University of Wisconsin, Madison, USA

Morning Break   10:00 AM - 10:30 AM

Tripp Commons

Parallel Session 1   10:30 AM -12:00 PM

Lecture Session: Affect & Perspective Taking

Reception Room

Chair: Fadoua Ouamani

How do Students Use Socio-Emotional Markers for Self-Reflection on Their Group Work in CSCL Settings? A Study with Visu: A Synchronous and Delayed Reflection Tool (short paper)
Elise Lavoué, Gaëlle Molinari, Safè Khezami, Yannick Prié

Emotion Feedback during Computer-Mediated Collaboration: Effects on Self-Reported Emotions and Perceived Interaction (full paper)
Gaëlle Molinari, Guillaume Chanel, Mireille Bétrancourt, Thierry Pun, Christelle Bozelle

Learner-Support Agents for Collaborative Interaction: A Study on Affect and Communication Channels (full paper)
Yugo Hayashi

Influence of Epistemological Beliefs and Goal Orientation on Learning Performance in CSCL (full paper)
Kui Xie, Kun Huang

Lecture Session: Multimodal Communication
Beefeater

Chair: Garrett Smith

Group Cognition as Multimodal Discourse (short paper)
Wenjuan Li, Mara V. Martinez

Multimodal Interactions with Virtual Manipulatives: Supporting Young Children's Math Learning (short paper)
Seungoh Paek, Daniel Hoffman, John B. Black

Juxtaposing Practice: Uptake as Modal Transposition (full paper)
Richard Medina, Daniel Suthers

Interface Tangibility and Gesture in Mediating Individual Agency Within Group Spatial Problem Solving With an Ecosystem Simulation (full paper)
Helen Kwah, Leilah Lyons, Dixie Ching

Lecture Session: Online Discussion 1
Old Madison

Chair: Jeremy Dietmeier

Navigating Through Controversial Online Discussions: The Influence of Visualized Ratings (full paper)
Jürgen Buder, Christina Schwind, Anja Rudat, Daniel Bodemer

Reciprocity in Student Online Discussions (short paper)
Shitian Shen, Jihie Kim, Jaebong Yoo

The Blogosphere as Representational Space (full paper)
Richard Alterman, Bjorn Levi Gunnarsson

Supporting Active Wiki-Based Collaboration (full paper)
Adam Eck, Leen-Kiat Soh, Chad Brassil

Interactive Session
Inn Wisconsin

Chair: Rotem Abdu

Repurposing Everyday Technologies for Math and Science Inquiry (full paper)
Sarah Lewis, Wendy Ju

Fostering Math Engagement with Mobiles (short paper)
Lee Martin, Tobin White, Angelica Cortes, Jason Huang

Resources for Connecting Levels of Learning (full paper)
Gerry Stahl, Diler Öner

Visualizing and Analyzing Productive Structures and Patterns in Online Communities Using Multilevel Social Network Analysis (short paper)
Hon Jie Teo, Aditya Johri, Raktim Mitra

Symposium
Great Hall

Chair: Nancy Law

Are CSCL and Learning Sciences Research Relevant to Large-Scale Educational Reform?
Nancy Law, Naomi Miyake, Chee-Kit Looi, Riina Vuorikari, Yves Punie, Marcia Linn

Demo Session
Founders

Chair: Rich Halverson

Dynalogue: Teacher Candidates Collaborating to Learn and Teach Proportional Reasoning
Jody Siker, Janet Bowers, Jeremy Roschelle, Susan Courey

Towards Teaching Analytics: Repertory Grids for Formative Assessment (RGFA)
Ravi Vatrapu, Peter Reimann, Abid Hussain, Kiran Kocherla

The Metafora Tool: Supporting Learning to Learn Together
Reuma De-Groot, Toby Dragon, Manolis Mavrikis, Andreas Harrer, Kerstin Pfahler, Bruce M. McLaren, Rupert Wegerif, Chronis Kynigos, Baruch Schwarz

Lunch   12:00 PM - 1:30 PM

Tripp Commons & Tripp Deck

ijCSCL Editorial Board Meeting
Profile

Parallel Session 2   1:30 PM - 3:00 PM

Lecture Session: Discourse
Old Madison

Chair: Dan Tetrick

Using Automated and Fine-Grained Analysis of Pronoun Use as Indicators of Progress in an Online Collaborative Project (full paper)
Kate Thompson, Shannon Kennedy-Clark, Nick Kelly, Penny Wheeler

Cohesion-Based Analysis of CSCL Conversations: Holistic and Individual Perspectives (full paper)
Mihai Dascalu, Stefan Trausan-Matu, Philippe Dessus

Student Strategies for Collaborative Note-Taking and the Influence of Floor-Control (short paper)
Gregory Dyke, Kristine Lund

Understanding Collaborative Program Comprehension: Interlacing Gaze and Dialogues (full paper)
Kshitij Sharma, Patrick Jermann, Marc-Antoine Nüssli, Pierre Dillenbourg

Lecture Session: Science Education
Beefeater

Chair: Elizabeth Pier

Learning with Collaborative Inquiry: A Science Learning Environment for Secondary School Students (full paper)
Daner Sun, Chee-Kit Looi, Evelyn Teo

Collaboratively Generating and Critiquing Technology-Enhanced Concept Maps to Improve Evolution Education (short paper)
Beat Schwendimann

Effects of Robots' Revoicing on Preparation for Future Learning (full paper)
Hajime Shirouzu, Naomi Miyake

Variation in Other-Regulation and the Implications for Competence Negotiation (full paper)
Karlyn R. Adams-Wiggins, Toni Kempler Rogat

Interactive Session
Inn Wisconsin

Chair: Dana Gnesdilow

Digital Scholarly Storytelling: Making Videos to Explain Science (short paper)
Rucha Modak, Chris Millet

CSCL Scripts: Interoperating Table and Graph Representations (short paper)
Péricles Sobreira, Pierre Tchounikine

Supporting School Group Visits to Fine Arts Museums in the 21st Century: A CSCL Concept for a Multi-Touch Table Based Video Tool (full paper)
Moritz Borchers, Philipp Mock, Carmen Zahn, Jörg Edelmann, Friedrich W. Hesse

The Contagious Effect of Dialogism with New Technologies (short paper)
Benzi Slakmon, Baruch B. Schwarz;

Sympsosium
Great Hall

Chair: Susan Yoon

Designing to Improve Biology Understanding Through Complex Systems in High School Classrooms: No Simple Matter!
Susan Yoon, Eric Klopfer, Josh Sheldon, Ilana Schoenfeld, Daniel Wendel, Joyce Wang, Hal Scheintaub, David Reider

Invited Panel
Reception Room

Chair: Pierre Dillenbourg

How Do We Measure Collaborative Skills Across 60+ Countries and Economies?
Art Graessar, Patrick Griffins, Friedrick Hesse, Jim Pellegrino

Afternoon Break   3:00 PM - 3:30 PM
Tripp Commons

Keynote 3   3:30 PM - 5:00 PM
Great Hall

Connection Machines: The Role of Rapport in Computer Supported Collaborative Learning
Justine Cassell, *Human Computer Interaction Institute, Carnegie Mellon University, USA*

Chair: Mitchell Nathan, *University of Wisconsin, Madison, USA*

Poster Session & Evening Reception

5:00 PM - 7:00 PM

Tripp Commons

Supporting Feedback Uptake in Online Peer Assessment
Alexandra L. Funk, Astrid Wichmann, Nikol Rummel

Understanding Participation and Persistence in Online Peer-To-Peer Learning
Sarah Webster, Alisha Alam, June Ahn, Brian Butler

Collaborative Learning in Virtual Environments: Role-Based Exploration of Causality in Ecosystems over Time and Scale
Shari Metcalf, Amy M. Kamarainen, Tina Grotzer, Chris Dede

When Ideas Learn How to Fly: Children at the Intersection of Formal and Informal Learning Settings
Anne Weibert, Konstantin Aal

Can We Increase Students' Motivation to Learn Science by Means of Web-Based Collaborative Inquiry?
Annelies Raes, Tammy Schellens

Designing Interactive Scaffolds to Support Teacher-Led Inquiry of Complex Systems Concepts
Joshua A. Danish, Asmalina Saleh, Luis A. Andrade

Comparing "in the Wild" Studies With Laboratory Experiments: A Case of Educational Interactive Tabletops
Bertrand Schneider, Consuelo Valdes, Kelsey Temple, Chia Shen, Orit Shaer

Evaluating Virtual Collaboration Over Time – A Pilot Field Study
Birgitta Kopp, Heinz Mandl

Promisingness Judgments as Facilitators of Knowledge Building
Bodong Chen, Marlene Scardamalia, Alisa Acosta, Monica Resendes, Derya Kici

Extending the Reach of Embodied Interaction in Informal Spaces
Brian Slattery, Leilah Lyons, Brenda López Silva, Priscilla Jimenez

Navigating Online Learning Environments in the Classroom
Caitlin K. Martin, Brigid Barron

The Long and Winding Road to Collaborative Observational Practice
Catherine Eberbach, Cindy Hmelo-Silver, Yawen Yu

Motivated Interactions with Digital Games in a Science Center
Cathy Tran, Ole Smørdal

Transferring CSCL Findings to Face-To-Face Teacher Practice
Celia Kaendler, Michael Wiedmann, Nikol Rummel, Timo Leuders, Hans Spada

Beyond Sociograms Inspection: What Social Network Analysis has to Offer to Measure Cohesion in CSCL
Alejandra Martínez-Monés, Christophe Reffay, Christopher Teplovs

The Radix Endeavor: Designing A Massively Multiplayer Online Game around Collaborative Problem Solving in STEM
Jody Clarke-Midura, Louisa Rosenheck, Jason Haas, Eric Klopfer

Systematic Review and Meta-Analysis of STEM Simulations
Cynthia D'Angelo, Christopher Harris, Daisy Rutstein

Treasure-HIT: Supporting Outdoor Collaborative Activities with Mobile Treasure Hunt Games
Dan Kohen-Vacs, Miky Ronen, Shavit Cohen

Levels of Articulated Reasoning In Spontaneous Face-To-Face Collaborations and Online Forum Postings Surrounding a Single-Player Physics Game in Public Middle School Classrooms
Douglas Clark, Blaine Smith, Stephanie Zuckerman, Caroline Wilson, Joy Ssebikindu, Grant van Eaton

Towards Collaborative Argumentation in "Losing the Lake
E. Michael Nussbaum, Marissa C. Owens, Abeera P. Rehmat, Jacqueline Cordova

DALITE: Bringing "Peer-Instruction" Online
Elizabeth Charles, Chris Whittaker, Michael Dugdale, Nathaniel Lasry, Sameer Bhatnagar, Kevin Lenton

Idea Development in Multi-Touch and Paper-Based Collaborative Problem Solving
Emma Mercier, Georgia Vourloumi, Steven Higgins

Conceptual Ontology Framework for Socio-Cultural Aware Computer Supported Collaborative Learning Environments
Fadoua Ouamani, Narjès Bellamine Ben Saoud, Riadh Hadj M'tir, Henda Hajjami Ben Ghézala

Using a Graphical Interface to Address New Post Bias in Online Discussion Forums
Farshid Marbouti, Alyssa Friend Wise

Joint Reasoning about Gas Solubility in Water in Modified Versions of a Virtual Laboratory
Göran Karlsson, Michael Axelsson, Maria Sunnerstam, Thommy Eriksson

Discovering Dependencies: A Case Study of Collaborative Dynamic Mathematics
Gerry Stahl

Supporting Science Practices Outdoors with Mobile Devices: Findings from the Tree Investigators Augmented Reality Project
Heather Toomey Zimmerman, Susan M. Land, Lucy R. McClain, Michael R. Mohney, Gi Woong Choi, Fariha H. Salman

A Simulation-Based Approach for Increasing Women in Engineering
Golnaz Arastoopour, Naomi Chesler, David Williamson Shaffer

Multiple Scaffolds to Promote Collective Knowledge Construction in Science Classrooms
Hedieh Najafi, Jim Slotta

Dissecting Video Discussions and Coordination Strategies
I-Han Hsiao, Manav Malhotra, Hui Soo Chae, Gary Natriello

Multiple Effects of Collaborative Mobile Inquiry-Based Learning
Jalal Nouri, Teresa Ceratto-Pargman, Karwan Zetali

SANCTUARY: Asymmetric Interfaces for Collaborative Science Learning In Shared Space(s)
Jason Haas

Supporting Student Choice and Collaborative Decision-Making During Science Inquiry Investigations
Jennifer King Chen

Sociomathematical Participation: Participatory Culture and Mathematics Pre-Service Teacher Education
Jeremiah Holden

DynaLabs for Teachers to Collaborate on Pedagogical Strategies
Jeremy Roschelle, Charles Patton, John Brecht, Janet Bowers, Sue Courey, Elizabeth Murray

That's Me and That's You: Museum Visitors' Perspective-Taking Around an Embodied Interaction Data Map Display
Jessica Roberts, Francesco Cafaro, Raymond Kang, Kristen Vogt, Leilah Lyons, Josh Radinsky

Understanding the Enactment of Principle-Based Designs: Conceptualizing Principle-Based Approaches as Carriers of Principles for Learning
John Ow, Sunhee Paik, Katerine Bielaczyc

Together We can Beat this Game: The Prevalence of Collaborative Learning in Educational Video Game Play
Joshua Halterman, Camellia Sanford

Dynamic of Interaction Among Actors Mediated by the Visibility in an Online Community, What's Up With...?
Juan Hernández, Andrea Montoya, Andrés Mena, Maritza Castro, Johana López

Collaborative Learning through Socially Shared Regulation Supported by a Robotic Agent
Jun Oshima, Ritsuko Oshima

Teenagers Re-design a Collaborative Mobile App to Kindle Motivation for Learning about Energy Consumption
Katerina Avramides, Brock Craft, Rosemary Luckin

Learning at the Seafloor, Looking at the Sky: The Relationship Between Individual Tasks and Collaborative Engagement in Two Citizen Science Projects
Katie DeVries Hassman, Gabriel Mugar, Carsten Østerlund, Corey Jackson

Design in the world AND our work
Richard Reeve, Vanessa Svihla

| Early Career Workshop & Doctoral Consortium Reunion | 5:00 PM - 6:00 PM |

Reception Room

| Beer & Brats on the Lakefront Terrace | 7:00 PM - 10:00 PM |

Tripp Commons & Memorial Union Terrace

Live music by Harmonious Wail!

http://www.wail.com

Parallel Session 3   8:30 AM - 10:00 AM

Lecture Session: Issues in Collaborating with Technology
Reception Room

Chair: Amanda Evenstone

Reflectively Prototyping a Tool for Exchanging Ideas (short paper)
Camillia Matuk, Kevin McElhaney, David Miller, Jennifer King Chen, Jonathan Lim-Breitbart, Hiroki Terashima, Geoffrey Kwan, Marcia Linn

Measuring 'Framing' Differences of Single-Mouse and Tangible Inputs on Patterns of Collaborative Learning (full paper)
Luis Andrade, Joshua Danish, Yanin Moreno, Lenin Perez

Identifying Gender Differences in CSCL Chat Conversations (full paper)
Costin-Gabriel Chiru, Traian Rebedea, Stefan Trausan-Matu

Lecture Session: Argumentation
Old Madison

Chair: Matt Gaydos

The Influence of Training in Argumentation on Students' Individual Learning Outcomes (short paper)
Julia Gressick, Sharon J. Derry

AppleTree: An Assessment-Oriented Framework for Collaboration and Argumentation (short paper)
Wenli Chen, Chee Kit-Looi, Yun Wen, Wenting Xie

Knowledge Organization with Multiple External Representations in an Argumentation Based Computer Supported Collaborative Learning Environment (full paper)
Bahadir Namdar, Ji Shen

Experts Learn More (than Newcomers): An Exploratory Study of Argumentation in an Online Help Forum (full paper)
Hon Jie Teo, Aditya Johri

Lecture Session: Identity & Leadership
Beefeater

Chair: Dan Tetrick

Experiences as Resources for Sense Making: Health Education Students' I-Positioning in an Online Science Philosophy Course (full paper)
Maarit Arvaja

The Role of Identities in the Process of Knowledge Construction in CSCL Settings (full paper)
Murat Oztok

When Face-to-Face Fails: Opportunities for Social Media to Foster Collaborative Learning (full paper)
Tamara Clegg, Jason Yip, June Ahn, Elizabeth Bonsignore, Michael Gubbels, Becky Lewittes, Emily Rhodes

Youth Roles and Leadership in an Online Creative Community (full paper)
Ricarose Roque, Natalie Rusk, Amos Blanton

Interactive Session
Inn Wisconsin

Chair: Fabrizio Fornara

Complementary Social Network and Dialogic Space Analyses: An E-Discussion Case Study (short paper)
Myriam Sofía Rodríguez Garzón, Reuma De-Groot, Raul Drachman, Luis Facundo Maldonado

'Co-alienation' Mediated by Common Representations in Synchronous E-Discussions (full paper)
Baruch B. Schwarz, Yfat Ben-David Kolikant, Maria Mishenkina

Individualistic Appropriation as a Primary Mechanism of Collaborative Conceptual Change: A Case Study (full paper)
Michael Tscholl, John Dowell

Scaffolding a Technical Community of Students through Social Gaming: Lessons from a Serious Game Evaluation (short paper)
Râzvan Rughiniş

Panel
Founders

Chair: Erica Halverson

The MAKE Movement and Connections to the CSCL Community
Erica Halverson, Breanne Litts, Kimberly Sheridan, Trevor Owens, Deborah Fields, Yasmin Kafai, Kyle Peppler, Rafi Santo, Lisa Brahms, Gina Svarovsky

Invited Presidential Symposium
Great Hall

Chair: Frank Fischer, Cindy Hmelo-Silver, Susan Goldman
Discussant: Nikol Rummel

Looking Back and Looking Ahead: Twenty International Years of CSCL
Nancy Law, Peter Reimann, Paul Kirschner, Gerry Stahl

Morning Break   10:00 AM - 10:30 AM
Tripp Commons

Parellel Session 4   10:30 AM - 12:00 PM

Lecture Session: Instruction 1
Recepton Room

Chair: Katherine Knight

MTClassroom and MTDashboard: Supporting Analysis of Teacher Attention in an Orchestrated Multi-Tabletop Classroom (full paper)
Roberto Martinez-Maldonado, Judy Kay, Kalina Yacef, Marie-Theresa Edbauer, Yannis Dimitriadis

The Impact of CSCL Beyond the Online Environment (full paper)
Sherice N. Clarke, Gaowei Chen, Catherine Stainton, Sandra Katz, James G. Greeno, Lauren B. Resnick, Gregory Dyke, Iris Howley, David Adamson, Carolyn P. Rosé

Designing Reference Points in Animated Classroom Stories to Support Teacher Learners' Online Discussions (full paper)
Vu Minh Chieu, Patricio Herbst

Understanding the Teacher's Role in a Knowledge Community and Inquiry Curriculum (short paper)
Naxin Zhao, James D. Slotta

Lecture Session: Game Design & Computing
Beefeater

Chair: Breanne Litts

Gameplay as Assessment: Analyzing Event-Stream Player Data and Learning Using GBA (a Game-Based Assessment Model) (full paper)
V. Elizabeth Owen, R. Benjamin Shapiro, Richard Halverson

Incentives in Educational Games: A Multilevel Analysis of their Impact on Elementary Students' Engagement and Learning (full paper)
Michael Filsecker, Daniel Thomas Hickey

Measuring Social Identity Development in Epistemic Games (full paper)
Golnaz Arastoopour, David Williamson Shaffer

Flexible Gamification in a Social Learning Situation. Insights from a Collaborative Review Exercise (short paper)
Râzvan Rughiniş

Lecture Session: Professions & Workplace Skills
Old Madison

Chair: Julia Rutledge

Fostering CSCL Adoption: An Approach to Professional Development Focused on Orchestration (full paper)
Luis P. Prieto, Sara Villagrá-Sobrino, Yannis Dimitriadis, Juan I. Asensio-Pérez, Iván M. Jorrín-Abellán

The Benefits and Limitations of Distributing a Tangible Interface in a Classroom (full paper)
Sébastien Cuendet, Pierre Dillenbourg

Individual and Collaborative Reflection at Work: Support for Work-place Learning in Healthcare (short paper)
Michael Prilla, Krista DeLeeuw, Ulrike Cress, Thomas Herrmann

Learning to Facilitate (Online) Meetings (short paper)
Peter Reimann, Susan Bull, Ravi Vatrapu

Interactive Session
Inn Wisconsin

Chair: Lee Martin

Facilitating Belief Change via Computer-Supported Collaborative Knowledge-Building (short paper)
Pei-Jung Li, Chih-Hsuan Chang, Huang-Yao Hong, Hsien-Ta Lin

Learning to Argue in Mathematics: Effects of Heuristic Worked Examples and CSCL Scripts on Transactive Argumentation (full paper)
Freydis Vogel, Elisabeth Reichersdorfer, Ingo Kollar, Stefan Ufer, Kristina Reiss, Frank Fischer

Designing Soil Quality Mobile Inquiry For Middle School (short paper)
Heidy Maldonado, Brian Perone, Mehjabeen Datoo, Paul Franz, Roy D. Pea

Design of a Collaborative Learning Platform for Medical Doctors Specializing in Family Medicine (short paper)
Sabrina Ziebarth, Anna Kötteritzsch, H. Ulrich Hoppe, Lorena Dini, Svenja Schröder, Jaminko Novak

Panel
Great Hall

Chair: Jan-Willem Strijbos

From Research Instruments to Classroom Assessments: A Call for Tools to Assist Teacher Assessment of Collaborative Learning
Jan-Willem Strijbos, Frank Fischer, Ulrike Cress, Chee-Kit Looi, Sadhana Puntambekar, Peter Reimann, Carolyn P. Rosé, Jim Slotta

Demo Session
Founders

Chair: Dan Suthers

Demo of Collaborative Dynamic Mathematics in Virtual Math Teams
Gerry Stahl, Anthony Mantoan, Stephen Weimar

InterLACE: Interactive Learning And Collaboration Environment
Eric Coopey, Leslie Schneider, Ethan Danahy

iSocial Demo: A 3D Collaborative Virtual Learning Environment
James Laffey, Janine Stichter, Ryan Babiuch, Joe Griffin, Krista Galyen

Lunch   12:00 PM - 1:30 PM
Tripp Commons & Tripp Deck

CSCL Committee and Community Open Meeting
Inn Wisconsin

Parallel Session 5   1:30 PM - 3:00 PM

Lecture Session: STEM Collaboration
Beefeater

Chair: Elizabeth Pier

Examining High School Students' Learning from Collaborative Projects Related to Alternative Energy (short paper)
Jennifer L. Weible, Heather Toomey Zimmerman

The Sequential Analysis, Modeling and Visualization of Collaborative Causal Mapping Processes and Effects on Causal Understanding (full paper)
Allan Jeong, Woon Jee Lee

Learning How to Learn Together (L2L2): Developing Tools to Support an Essential Complex Competence for the Internet Age (short paper)
Yang Yang, Rupert Wegerif, Toby Dragon, Manolis Mavrikis, Bruce M. McLaren

Using Eye-Tracking Technology to Support Visual Coordination in Collaborative Problem-Solving Groups (full paper)
Bertrand Schneider, Roy Pea

Lecture Session: Collaboration Scripts
Old Madison

Chair: Fadoua Ouamani

Teacher Framing, Classroom Collaboration Scripts, and Help-Seeking and Help-Giving Behaviors (full paper)
Eleni Kyza, Yiannis Georgiou, Demetra Hadjichambi, Andreas Hadjichambis

How Collaboration Scripts are Internalized: A Script Theory of Guidance Perspective (short paper)
Jin Mu, Karsten Stegmann, Frank Fischer

Effects of an Interculturally Enriched CSCL Script on Students' Attitudes and Performance (full paper)
Vitaliy Popov, Harm J.A. Biemans, Martin Mulder

Is There Evidence for Expertise on Collaboration And If So, Is It Domain-Specific or Domain-General? (short paper)
Jan Kiesewetter, Martin Fischer, Frank Fischer

Lecture Session: Collaborative Spaces
Reception Room

Chair: Breanne Litts

A Study of Private Messaging Within an Asynchronous Discussion Environment (short paper)
Jim Hewitt, Clare Brett, Kim MacKinnon

Designing Learning Environments for Knowledge Building: Inquiry Discourse of Chinese Tertiary Classes (short paper)
Chunlin Lei, Carol K.K. Chan, Jan van Aalst

The Benefits of Single-Touch Screens in Intersubjective Meaning Making (short paper)
Jacob Davidsen, Ellen Christiansen

Collaborative Learning Across Space and Time: Ethnographic Research in Online Affinity Spaces (short paper)
Alecia Marie Magnifico, Jayne C. Lammers, Jen Scott Curwood

Interactive Session
Inn Wisconsin

Chair: Dana Gnesdilow

Collaborative Learning in Facebook: Can Argument Structure Facilitate Academic Opinion Change? (short paper)
Dimitra Tsovaltzi, Armin Weinberger, Oliver Scheuer, Toby Dragon, Bruce M. McLaren

Peer Scaffold in Math Problem Solving (full paper)
Rotem Abdu

Bridging Networked Learning Across Multiple Levels: Participatory Approaches to Competency-Based Learning (short paper)
Rebecca C. Itow, Daniel T. Hickey

Real-Time Collaboration for Web-Based Labs (full paper)
Luis de la Torre, Ruben Heradio, Sebastian Dormido, Carlos Jara

Symposium
Great Hall

Chair: Ulrike Cress

Mass Collaboration – An Emerging Field for CSCL Research
Brigid Barron, Gerhard Fischer, Ulrike Cress, Iassen Halatchliyski, Aileen Oeberst, Andrea Forte, Mitchel Resnick

Afternoon Break   3:00 PM - 3:30 PM
Tripp Commons

Parallel Session 6   3:30 PM - 5:00 PM

Lecture Session: Instruction 2
Beefeater

Chair: Katherine Knight

Multidimensional Teacher Behavior in CSCL (full paper)
Anouschka van Leeuwen, Jeroen Janssen, Gijsbert Erkens, Mieke Brekelmans

When Instruction Supports Collaboration, But Does Not Lead to Learning – the Case of Classroom and Small Group Scripts in the CSCL Classroom (full paper)
Ingo Kollar, Christof Wecker, Sybille Langer, Frank Fischer

Educator Roles that Support Students in Online Environments (short paper)
Caitlin K. Martin, Denise C. Nacu, Nichole Pinkard, Tene Gray

Delaying Instruction Alone Doesn't Work: Comparing and Contrasting Student Solutions is Necessary for Learning from Problem-Solving Prior to Instruction (full paper)
Katharina Loibl, Nikol Rummel

Lecture Session: Design
Old Madison

Chair: Jenny Saucerman

Cooperative Inquiry as a Community of Practice (short paper)
Stephanie Ryan, Jason Yip, Mike Stieff, Allison Druin

Phases of Design: Following Idea Development and Patterns of Collaborative Discussion in a Learning by Design Project (full paper)
Kate Thompson, David Ashe, Pippa Yeoman, Martin Parisio

Identification of Patterns of Tool Use and Sketching Practices in a Learning by Design Task (full paper)
Kate Thompson, David Ashe, Dewa Wardak, Pippa Yeoman, Martin Parisio

Designing for Group Math Discourse (full paper)
Rachel M. Magee, Christopher M. Mascaro, Gerry Stahl

Lecture Session: Collective Knowledge & Augmented Reality
Reception Room

Chair: Golnaz Arastoopour

Making Use of Collective Knowledge – a Cognitive Approach (full paper)
Ulrike Cress

Finding Evidence of Metacognition through Content Analysis of an ePortfolio Community: Beyond Text, Across New Media (short paper)
Kathryn Wozniak, José Zagal

Ethics for Design-Based Research on Online Social Networks (full paper)
R. Benjamin Shapiro, Pilar N. Ossorio

Constructing and Deconstructing Materially-Anchored Conceptual Blends in an Augmented Reality Collaborative Learning Environment (full paper)
Noel Enyedy, Joshua Danish, David DeLiema

Interactive Session
Inn Wisconsin

Chair: Michael Tscholl

Leveling the Playing Field: Making Multi-Level Evolutionary Processes Accessible through Participatory Simulations (short paper)
Aditi Wagh, Uri Wilensky

Group Work in the Science Classroom: How Gender Composition May Affect Individual Performance (short paper)
Dana Gnesdilow, Amanda Evenstone, Julia Rutledge, Sarah Sullivan, Sadhana Puntambekar

Modeling #Twitter Use: Do Students Notice? (short paper)
Vanessa Dennen, Fabrizio Fornara

The MOOC as Distributed Intelligence: Dimensions of a Framework & Evaluation of MOOCs (short paper)
Shuchi Grover, Paul Franz, Emily Schneider, Roy Pea

Panel
Great Hall

Chair: Susan Yoon

Promises and Perils of Using Digital Tools in Informal Science Learning Environments: Design Considerations for Learning
Susan Yoon, Chris Quintana, Leilah Lyons, Judy Perry, Scot Osterweil, Robb Lindgren

Poster Session & Evening Reception   5:00 PM - 7:00 PM

Tripp Commons

Learning About Ecosystems Through Collaborative Augmented Reality Experiences
Amy M. Kamarainen, Shari Metcalf, Tina Grotzer, Chris Dede

Come_IN@Palestine: Adapting a German Computer Club Concept to a Palestinian Refugee Camp
Kai Schubert, Konstantin Aal, Volker Wulf, Anne Weibert, Meryem Atam, George P. Yerousis

Design Methods to Study Learning Across Networked Systems, Co-Located Spaces, and Time
Caitlin K. Martin, Brigid Barron, Veronique Mertl

INKA-SUITE: An Integrated Test-Environment for Analyzing Chat Communication
Andrea Kienle, Christian Schlösser, Philipp Schlieker-Steens

Transforming the Learning Difficulties to Teaching Moments
Mi Song Kim, Xiaoxuan Ye

iSocial: Collaborative Distance Education for Special Needs
James Laffey, Janine Stichter, Krista Galyen, Xianhui Wang, Nan Ding, Ryan Babiuch, Joe Griffin

The Effect of Computer-Supported Independent and Interdependent Collaboration on Information Sharing
Kyung Kim, Roy Clariana, Amy Garbrick

Learning Across Space, Time, and Scale: A Bayesian Perspective
M. Shane Tutwiler, Tina A. Grotzer

Hybrid Shmybrid: Using Collaborative Structure to Understand the Relationship Between Virtual and Tangible Elements of a Computational Craft
Maneksha DuMont, Deborah Fields

Prospective Mathematics Teachers Interacting in Online Chat Concerning the Definition of Polyhedron
Marcelo Bairral

Structuring the PA Process: Impact on Feedback Quality
Mario Gielen, Bram De Wever

Designing Community Knowledge in Fabrication Labs: Design Directives and Initial Prototypes
Maryanna Rogers, Paulo Blikstein

Social Design in Digital Simulations: Effects of Single versus Multi-Player Simulations on Efficacy Beliefs and Transfer
Maximilian Knogler, Andreas Gegenfurtner, Carla Quesada-Pallarès

COMPS Computer-Mediated Problem Solving Dialogues
Michael Glass, Jung Hee Kim, Melissa Desjarlais, Kelvin Bryant

SiMSAM: An Integrated Toolkit to Bridge Student, Scientific, and Mathematical Ideas Using Computational Media
Michelle Wilkerson-Jerde, Brian Gravel, Christopher Macrander

Enhancing Pre-Service History Teachers' Historical Reasoning through a Computer-Supported Collaboration Script
Michiel Voet, Bram De Wever

Scripting and Orchestration of Collaborative Inquiry: An Increasing Complexity of Designs
Mike Tissenbaum, James D. Slotta

Enhancing Engagement and Collaborative Learning Skills in Multi-Touch Software for UML Diagramming
Mohammed Basheri, Liz Burd, Malcolm Munro, Nilufar Baghaei

Towards Group Cognitive Analysis of Collaborative Learning with Eye-Tracking and Brain Imaging Technologies
Murat Perit Çakır

Formative Assessment Using Repertory Grid Technique via Facebook: A Social Media Tool to Support E-Learning
Nobuko Fujita, Chris Teplovs

Automated and Adaptive Support for Educational Discussions: Results to Guide in Making this a Reality
Oliver Scheuer, Bruce M. McLaren, Armin Weinberger

"Do You Speak Math?" Visualizing Patterns of Student Technical Language in a Mathematics MOOC
Paul Franz, Brian Perone

Exploring the Effect of Online Collaborative Learning on Students' Scientific Understanding
Pei-Jung Li, Chih-Hsuan Chang, Huang-Yao Hong

Using Mobile Technology to Support Innovation Education
Pete Phelan, Daniel Rees Lewis, Matthew Easterday, Elizabeth Gerber

Interview Findings on Middle Schoolers' Collaboration in Self-Organizing Game Design Teams
Rebecca Reynolds, Cindy E. Hmelo-Silver, Lars Sorensen, Cheryl Van Ness

Digital Evidence and Scaffolds in a Model-Based Inquiry Curriculum for Middle School Science
Ronald W. Rinehart, Ravit Duncan, Clark A. Chinn, Michael Dianovsky

Making Math Learning Social and Familial: The Promise and Problems of Mobile Devices
Osvaldo Jimenez, Shelley Goldman, Ben Hedrick, Kristen Pilner Blair, Roy Pea

Understanding the Life of an Online Community through Analytics
Rucha Modak, Shawn Vashaw

Visualization and Elaboration of Students' Group Reading Processes
Sarah A. Sullivan, Sadhana Puntambekar

Improving Academic Essays by Writing and Reading Peer Annotations on Source Documents
Satoshi V. Suzuki, Hiroaki Suzuki

Collaboration in a Non-Digital, Computational Game Space
Sean Duncan

Measuring Performance Across Space & Time in Online Learning: Identifying Structural Patterns to Promote Scalability
Sean Goggins, James Laffey

Supporting Self-Regulated Learning with Moodle Forums
Shiyu Liu

Individual Grade Allocation in CSCL Writing Tasks: A Case Study
Stan Buis, Judith Schoonenboom, Jos Beishuizen

Assessing the Participants in CSCL Chat Conversations
Costin-Gabriel Chiru, Traian Rebedea, Stefan Trausan-Matu

An Approach for Supporting Hybrid Learning Communities: The Case of a Regional Parent Community
Sven Strickroth, Niels Pinkwart

Using Social Media Behaviors to Design Language for Advancing Pedagogy and Assessment
Tamecia R. Jones, Monica E. Cardella, Senay Y. Purzer

Puppetry as a Catalyst in Role-Play: A Device to Facilitate Gaining New Insights into the Perspectives of Others
Toshio Mochizuki, Hiroshi Sasaki, Takehiro Wakimoto, Ryoya Hirayama, Yoshihiko Kubota, Hideyuki Suzuki

Extending Inquiry: Collaborative Learning with Immersive, Interactive Projection
Vanessa Svihla, Nicholas Kvam, Matthew Dahlgren, Jeffrey Bowles, Joe Kniss

Productive Subjective Failure in a Learning Community: Process of Explicating and Negotiating Norms
Yotam Hod, Dani Ben-Zvi

Science Across Virtual Institutes (SAVI): The Innovations in Learning and Education
Eric Hamilton, Jari Multisilta

ISLS Closed Board Meeting   5:00 PM - 6:00 PM

Inn Wisconsin

Banquet   7:00 PM - 10:00 PM

Monona Terrace & Convention Center

Parallel Session 7   8:30 AM - 10:00 AM

Lecture Session: Online Discussion 2
Beefeater

Chair: Jeremy Dietmeier

Examining Dynamics of Implementing Flexible Group Discourse in a Principle-Based CSCL Environment (full paper)
Tuya Siqin, Jan van Aalst, Samuel Kai Wah Chu

Experiences of a Newbie Helper in a Free Open Online Mathematics Help Forum Community (full paper)
Carla van de Sande

Relationships between Listening and Speaking in Online Discussions: An Empirical Investigation (full paper)
Alyssa Friend Wise, Simone Nicole Hausknecht, Yuting Zhao

Intensification of Group Knowledge Exchange with Academically Productive Talk Agents (full paper)
David Adamson, Colin Ashe, HyeJu Jang, David Yaron, Carolyn P. Rosé

Lecture Session: Knowledge Building
Old Madison

Chair: Julia Rutledge

Computer-Supported Metadiscourse to Foster Collective Progress in Knowledge-Building Communities (short paper)
Jianwei Zhang, Mei-Hwa Chen, Jingping Chen, Teresa Ferrer Mico

Toward a Qualitative Approach to Examining Idea Improvement in Knowledge-Building Discourse (short paper)
Ella L.F. Fu, Jan van Aalst, Carol K.K. Chan

Making Collective Progress Visible for Sustained Knowledge Building (full paper)
Mei-Hwa Chen, Jianwei Zhang, Jiyeon Lee

The Effect of Formative Feedback on Vocabulary Use and Distribution of Vocabulary Knowledge in a Grade Two Knowledge Building Class (full paper)
Monica Resendes, Bodong Chen, Alisa Acosta, Marlene Scardamalia

Lecture Session: Psychological and Social Aspects of Technology Use
Reception Room

Chair: Amanda Evenstone

Going Deep: Supporting Collaborative Exploration of Evolution in Natural History Museums (full paper)
Pryce Davis, Michael Horn, Laurel Schrementi, Florian Block, Brenda Phillips, E. Margaret Evans, Judy Diamond, Chia Shen

Inhibiting Undesirable Effects of Mutual Trust in Net-Based Collaborative Groups (full paper)
Tanja Engelmann, Richard Kolodziej, Michail Kozlov

Understanding Collaborative Practices in the Scratch Online Community: Patterns of Participation among Youth Designers (full paper)
Deborah Fields, Michael Giang, Yasmin Kafai

A Multidimensional Dialogic Framework in Support of Collaborative Creativity in Computer Programming (short paper)
Deller James Ferreira, Rupert Wegerif

Interactive Session
Inn Wisconsin

Chair: Benzi Slakmon

A Multi-Level Analysis of Engagement and Achievement: Badges and Wikifolios in an Online Course (short paper)
Andrea M. Rehak, Daniel T. Hickey

Information Cueing in Collaborative Multimedia Learning (short paper)
Alexander Scholvien, Daniel Bodemer

Common Knowledge: Orchestrating Synchronously Blended F2F Discourse in the Elementary Classroom (short paper)
Cresencia Fong, Rebecca Cober, Cheryl Madeira, Richard Messina, Julia Murray, Ben Peebles, James D. Slott

Symposium
Great Hall

Chair: Frank Fischer

Scripting and Orchestration: Recent Theoretical Advances
Frank Fischer, Jim Slotta, Pierre Dillenbourg, Pierre Tchounikine, Ingo Kollar, Christof Wecker, Karsten Stegmann, Clark Chinn

Morning Break   10:00 AM - 10:30 AM
Tripp Commons

Parallel Session 8   10:30 AM - 12:00 PM

Lecture Session: 21st Century Classrooms - Mmedia, Videoconferencing MOOCs & Blended
Beefeater

Chair: Sarah Sullivan

Inter-Personal Browsing: Supporting Cooperative Web Searching by Face-To-Face Sharing of Browser Pages (full paper)
Tomoko Hashida, Koki Nomura, Makoto Iida, Takeshi Naemura

An Adapted Group Psychotherapy Framework for Teaching and Learning About CSCL (full paper)
Yotam Hod, Dani Ben-Zvi

The Joint Action Theory in Didactics: A Case Study in Videoconferencing at Primary School (full paper)
Brigitte Gruson, Gérard Sensevy

Lecture Session: Mobile Tech/Ubiquitous/ Multi-Touch Tables
Old Madison

Chair: Garrett Smith

Students' Capacity for Autonomous Learning in an Unstructured Learning Space on a Mobile Learning Trail (short paper)
Esther Tan, Hyo-Jeong So

Using Gartner's Hype Cycle as a Basis to Analyze Research on the Educational use of Ubiquitous Computing (full paper)
Jari Laru, Sanna Järvelä

Fostering Learning and Collaboration in a Scientific Community – Evidence from an Experiment Using RFID Devices to Measure Collaborative Processes (full paper)
Julia Eberle, Karsten Stegmann, Kris Lund, Alain Barrat, Michael Sailer, Frank Fischer

Lecture Session: Knowledge Building Spaces
Reception Room

Chair: Golnaz Arastoopour

Constructive Use of Authoritative Sources among Collaborative Knowledge Builders in a Social Science Classroom (full paper)
Fei-Ching Chen, Chih-Hsuan Chang, Cheng-Yu Yang

Aggregating Students' Observations in Support of Community Knowledge and Discourse (full paper)
Rebecca Cober, Colin McCann, Tom Moher, Jim Slotta

Epistemic Trajectories: Mentoring in a Game Design Practicum (full paper)
Padraig Nash, David Williamson Shaffer

Exploring Evolutionary Concepts with Immersive Simulations (full paper)
Michelle Lui, James D. Slotta

Interactive Session
Inn Wisconsin

Chair: Dana Gnesdilow

Visualizing Live Collaboration in the Classroom with AMOEBA (short paper)
Matthew Berland, Carmen Petrick Smith, Don Davis

Learning through Computer-Assisted Collaborative Game Design: Mathematical, Design, and Computational Thinking (short paper)
Fengfeng Ke

Blended Learning Experiences in a Multimodal Setting: The Impact of Communication Channels and Learners' CMC Expertise on Perceived Social Presence and Motivation (short paper)
Marc Mannsfeld, Astrid Wichmann, Nicole Krämer, Nikol Rummel

Visualizing Topics, Time, and Grades in Online Class Discussions (short paper)
Norma C. Ming, Vivienne L. Ming

Symposium
Great Hall

Chair: Elizabeth Bonsignore

Embedding Participatory Design into Designs for Learning: An Untapped Interdisciplinary Resource?
Elizabeth Bonsignore, June Ahn, Tamara Clegg, Mona Leigh Guha, Juan Pablo Hourcade, Jason C. Yip, Allison Druin

Demo Session
Founders

Chair: Rich Halverson

Studio K: Tools for Game Design and Computational Thinking
David Hatfield, Gabriella Anton, Amanda Ochsner, Kurt Squire, Ben Shapiro, Alex Games

CyberSTEM: Making Discovery Visible Through Digital Games
Kurt Squire, Rich Halverson, Craig Kasemodel, R. Benjamin Shapiro, Matthew Gaydos, V. Elizabeth Owen, Mike Beall, Dennis Paiz-Ramirez

GoCivics-Tablet-Enhanced Role-Play Games: A Demonstration
Matthew Haselton, Beth Quinn

Lunch   12:00 PM - 1:00 PM
Tripp Commons & Tripp Deck

Invited Plenary Symposium   1:00 PM - 2:30 PM
Great Hall

To See the World and a Grain of Sand: Multiple Methods in CSCL Research
Chair: Cindy Hmelo-Silver
Discussants: Dan Suthers, Kris Lund

To Analyze a Shared World in a Sedimented Resource and Community in a Solitary Fly, Hold Infinity in the Trace of a Social Force, and Eternity in the Wink of an Eye
Gerry Stahl

Knowledge Processes in Individuals and Groups: A Co-Evolutionary Approach
Ulrike Cress

Gaze across Temporal Levels and its Relation with Dialogue and Understanding.
Patrick Jerman

Cycles of Discourse Analysis Statistical Discourse Analysis
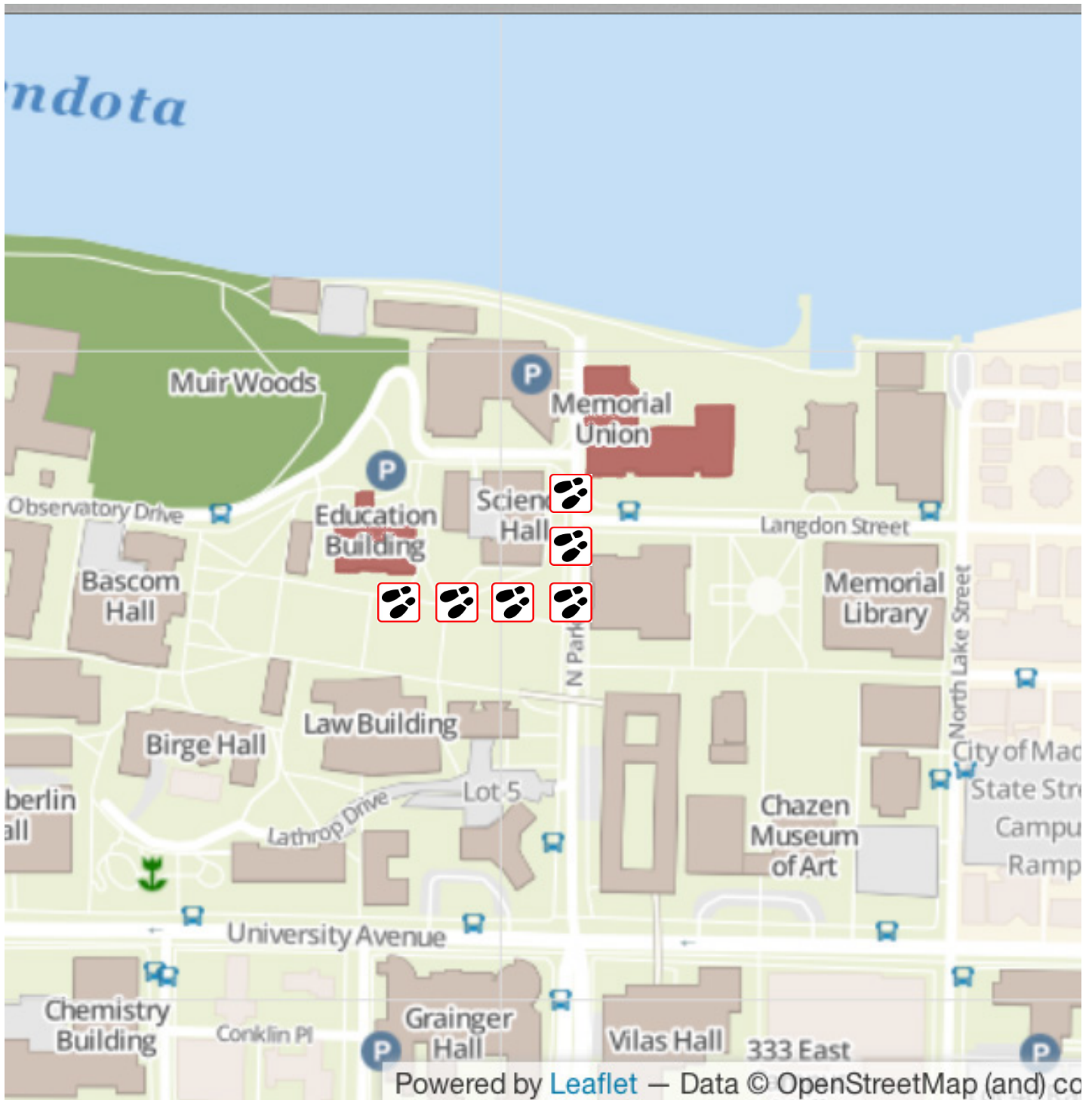Ming Ming Chiu

Zooming In and Out of Collaborative Process Analysis through Linguistically Informed Machine Learning Models
Carolyn P. Rosé

Closing Session and Open Business Meeting
2:30 PM - 3:30 PM
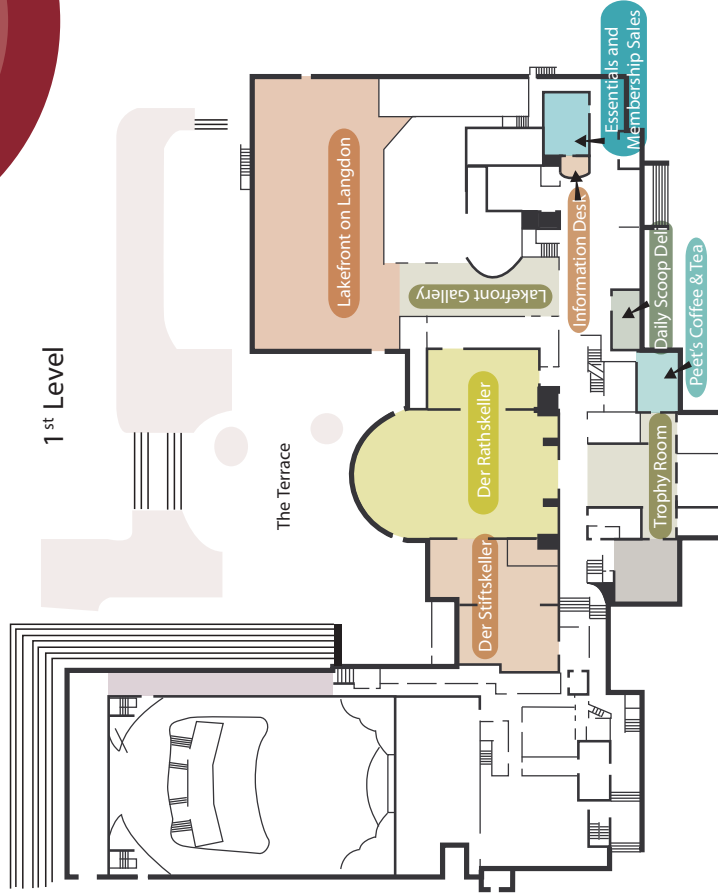
Great Hall

Map to Education Building
(Bascom Hill)

Education Building
(Pre-Conference Workshops)

(L259-L298)

Parking

Lecture Hall
L196

Elevators

Business Office

299   291

298   290

Elevators

EPS ★   245   ELPA ★

Ground Level
(L101-L196)

MERIT

Lecture Hall
L196

Bascom
Telepresence
Room L138

WISCAPE

L185

L177

L173

Elevators

L150

L159

L151   L155

Third Floor

Dean's
Office

3rd Floor Terrace

Elevators

Grad
Lounge

CP ★   345

First Floor

2nd Floor Terrace

ERO ★

Education
Room 198

Gallery
190

Commons

Info

Elevators

146

142

Crossroads
Café

154

EAS ★   145   151

Wisconsin Idea Room
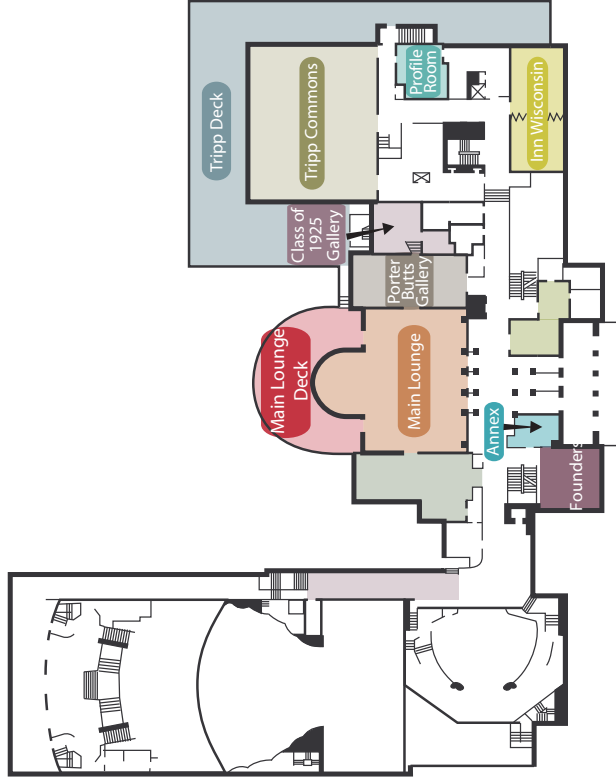159

Fourth Floor

Elevators

RP&SE   445

Red highlighted rooms: Full day workshop rooms (Saturday, June 15)
Orange highlighted rooms: Half day workshop rooms (Sunday, June 16)
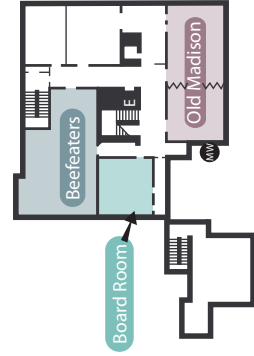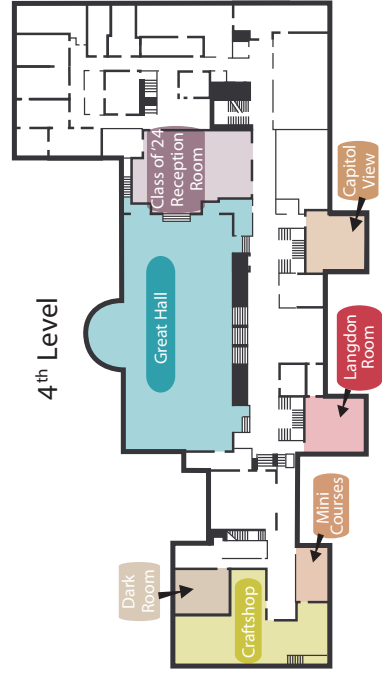***See program for workshop room*

1st Level

The Terrace

Lakefront on Langdon

Lakefront Gallery

Der Rathskeller

Der Stiftskeller

Information Desk

Essentials and Membership Sales

Daily Scoop Deli

Peet's Coffee & Tea

Trophy Room

2nd Level

Tripp Deck

Tripp Commons

Profile Room

Inn Wisconsin

Class of 1925 Gallery

Porter Butts Gallery

Main Lounge Deck

Main Lounge

Annex

Founders

3rd Level

Beefeaters

Old Madison

Board Room

4th Level

Class of '24 Reception Room

Capitol View

Great Hall

Langdon Room

Mini Courses

Dark Room

Craftshop

Wisconsin Union
Experiences for a lifetime

54