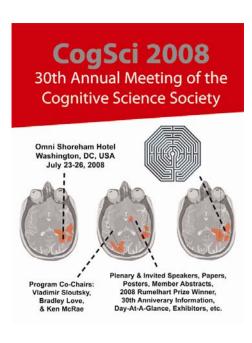
Introduction



CogSci 2008 is the 30th Annual Conference of the Cognitive Science Society. The 2008 Annual Conference has attracted more than 500 submissions from across the world, with the program featuring multiple symposia, talks, and posters representing many research themes and approaches within Cognitive Science. Each year, the Annual Conference of the Cognitive Science Society features a particular area of study. The theme of CogSci 2008 is The Development and Decline of Cognitive Function. This theme highlights the rise of cognitive function in the course of normal development and its decline and involution as a result of brain damage or We believe that understanding aging. development and decline of cognitive function is critical for understanding mature well-functioning cognition. year's theme is reflected in the selection of the two plenary speakers, Linda Smith and David Plaut, whose research

exemplifies the theme of the conference. The program will feature several additional important events. First, there will be a symposium honoring the 2008 Rumelhart Prize winner, Shimon Ullman, as well as Shimon's talk. There will also be an announcement of the 2009 Rumelhart Prize winner. In addition, in 2008 the Cognitive Science Society is marking its 30th Anniversary – that's right our society is about to enter middle age! The 30th Anniversary will be marked by an invited symposium organized by Larry Barsalou. It will consist of two parts, focusing on the trajectories of disciplines and perspectives within Cognitive Science over the past 30 years. The 30th Anniversary Symposium will bring together many of those who were there at the beginning of the Society and who are today leaders in the field of cognitive science.

The 30th Annual Conference will be held on July 23-26, 2008 in The Omni Shoreham Hotel in Washington, DC. Washington is the capital of the United States and the home of an extraordinary number of historical monuments, the Smithsonian Institute, and numerous museums for the arts and the natural sciences. The conference will be co-located with the Annual Meeting of the Society for Mathematical Psychology (http://www.cogs.indiana.edu/socmathpsych).

In total, 515 paper submissions were received, of which 383 were accepted as 6-page papers in the Proceedings. These include 166 (32.29%) papers scheduled for oral presentation, and 217 (42.21%) for poster presentation. There were also 6 symposia and 13 publication based talks accepted as oral presentations. In addition, 165 member abstracts were accepted for poster presentation. Finally, there will be 10 tutorials and 2 workshops offered on July 23, the day before the main conference.

Organizing the conference is a large undertaking, involving a tremendous amount of work for an extended period of time. It could not have been done without the help of many people. Primary thanks go to Kevin Gluck, the Cognitive Science Society Conference Officer. Kevin took on the responsibility of organizing the CogSci conference every year in order to have more continuity across

conferences and to improve long-range planning. Kevin does a large part of that organization and planning. Many thanks go to Mike Mozer, CogSci 2008 Event Chair - his insight and sage advice have been greatly appreciated. Simon Dennis has been instrumental in bringing advances in cognitive science to scheduling the conference. For the first time in the history of the Society the scientific program was created by an LSA-based algorithm rather than by human beings - go Deep Blue! Jennifer Wiley did a fabulous job communicating to federal funding agencies that the 30th Annual Conference of the Cognitive Science Society is a worthy endeavor, whereas Niels Taatgen selected recipients of the multiple awards given by the Society. Thanks are also due to the 9 members of the Organizing Committee, for managing various aspects of the conference; the 79 members of the Program Committee, for their critical work in the review process; and the 591 reviewers, for providing thorough and helpful reviews. See the listings of these committees on subsequent pages. In addition, we would like to thank James Stewart, for quickly diagnosing and fixing problems arising from the submission/reviewing software, Chris McNorgan for managing the conference website, and Deborah Gruber, the Society's Business Manager, for contributing to all aspects of the conference planning and preparation. Thanks are also due to all of the generous sponsors for their support of the conference, awards, workshops and tutorials, and for supporting student participation through reduced registration fees and travel support. We specifically acknowledge the Robert J. Glushko and Pamela Samuelson Foundation, the National Science Foundation, Air Force Research Laboratory, the Institute of Education Sciences of the US Department of Education, Air Force Office of Scientific Research, Cognitive Sciences Branch at the Army Research Laboratory - Human Research and Engineering Directorate, Office of Naval Research, Elsevier, the Cognitive Science Society, as well as to the University of Illinois at Chicago and Arizona State University Polytechnic for serving as the institutional sponsors for the federal grants supporting this conference. And above all, we would like to thank all the authors, the presenters, and the attendees of CogSci08 – without you there would have been no conference. Have a great 2008 conference and have fun in the Capital City!

CogSci 2008 Organizing Committee

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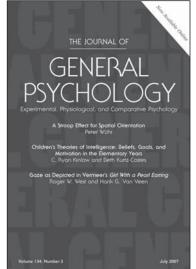
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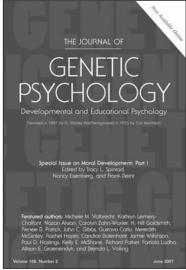
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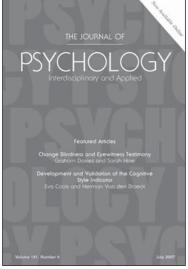
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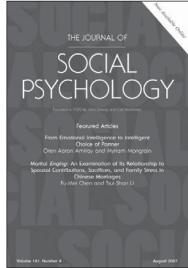
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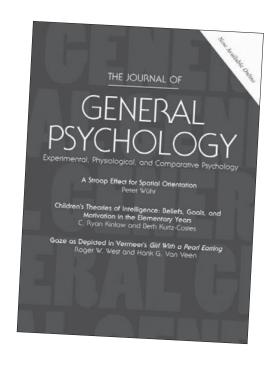
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* Please be sure to visit the Heldref table at the exihibit Hall.



2008 Paper Awards

Marr Prize

The Marr Prize, named in honor of the late David Marr, is awarded to the best student paper at the conference. All student first authors were eligible for the Marr Prize for the best student paper. The Marr Prize includes an honorarium of \$1,000 and is co-sponsored by The Cognitive Science Society and Elsevier.

The winner of the 2008 Marr Prize for Best Student Paper is:

Michael Frank, Evelina Fedorenko, Edward Gibson (see page 19 of the program)

Language as a Cognitive Technology: English-speakers match like Pirahã when you don't let them count.

Computational Modeling Prizes

Four prizes worth \$1,000 each are awarded for the best full paper submissions to CogSci 2008 that involve computation cognitive modeling. The four prizes represent the best modeling work in the areas of perception/action, language, higher-level cognition, and applied cognition.

The winners of the 2008 Computational Modeling Prizes are:

Applied Cognition (see page 14 of program)

Gideon Borensztajn, Jelle Zuidema, and Rens Bod

Children's grammars grow more abstract with age – Evidence from an automatic procedure for identifying the productive units of language.

Language (see page 23 of program)

Afsaneh Fazly, Afra Alishahi, & Suzanne Stevenson

A Probabilistic Incremental Model of Word Learning in the Presence of Referential Uncertainty.

Perception/Action (see page 19 of program)

Joseph Toscano and Bob McMurray

Using the distributional statistics of speech sounds for weighting and integrating acoustic cues.

Higher-level cognition (see page 17 of program)

Pernille Hemmer and Mark Steyvers

A Bayesian Account of Reconstructive Memory.

Cognition and Student Learning (CaSL) Prize

The Cognition and Student Learning (CaSL) Prize is an honorarium of \$1,000 that is awarded to the best paper on research conducted on a topic directly related to cognitive science, educational practice, and subject matter learning. This prize is sponsored by the Institute of Education Sciences.

The winner of the 2008 Cognition and Student Learning Prize is:

Ron Salden, Vincent Alexen, Alexander Renkl, and Rolf Schwonke (see page 21 of program)

Worked Examples and Tutored Problem Solving: Redundant or Synergistic Forms of Support?

Student Travel Awards

Travel awards have been provided to students whose papers were accepted as oral presentations and who indicated a need for travel funding. The \$10,000 in student travel awards is generously sponsored by the Robert J. Glushko and Pamela Samuelson Foundation.

The 2008 Travel Awards went to:

Laura Staum Casasanto	Joseph Austerweil	Daniel Heussen
Bella Veksler	Heeseung Lee	Aaron Buss
Brooke Breaux	Marc Ettlinger	Yarden Katz
Phil Maguire	Mitchell Herschback	Jeff Loucks
Michael Frank	Chris Sims	Dan Yurovsky
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Program Notes

	On-Site Registration Hours	Packet Pick Up Hours
	(Director's Room)	(Sales Conference Room)
Tuesday	5:00pm-7:00pm	5:00pm-7:00pm
Wednesday	7:00am-2:00pm, 5:00-7:00pm	7:00am-2:00pm, 5:00-7:00pm
		(West Registration Desk)
Thursday	7:00am-2:00pm, 3:00-4:30pm	7:00am-3:30pm
Friday	8:00am-9:30am, 11:00am - 2:30pm	8:00am-3:30pm
Saturday	8:00am-9:30am	8:00am-3:30pm

Executive Committee Meeting

Wednesday 9:30 – 2:00pm Chairman's Boardroom

Governing Board Meetings

Wednesday 2:30 – 5:00pm Thursday 12:15 – 1:45pm Friday 12:15 – 1:45pm Chairman's Boardroom

Fellows Committee Meeting

Thursday 7:00pm Blue Room

Cognitive Science Society Business Meeting

(All members are invited) Saturday 8:00 – 9:15am Regency Ballroom

How to Cite Your Paper

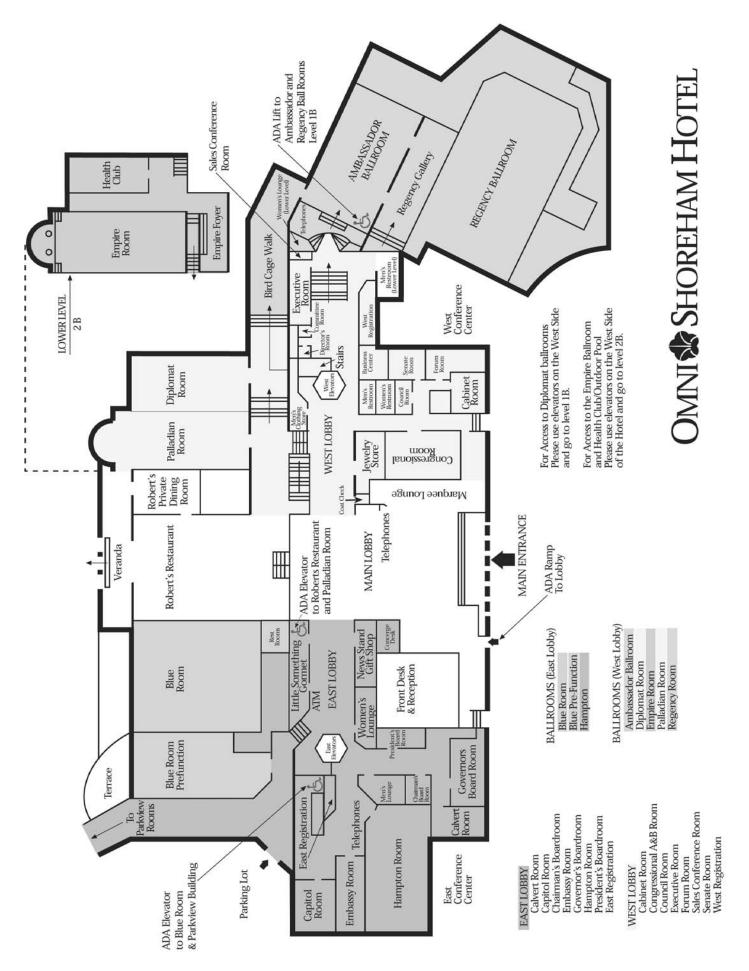
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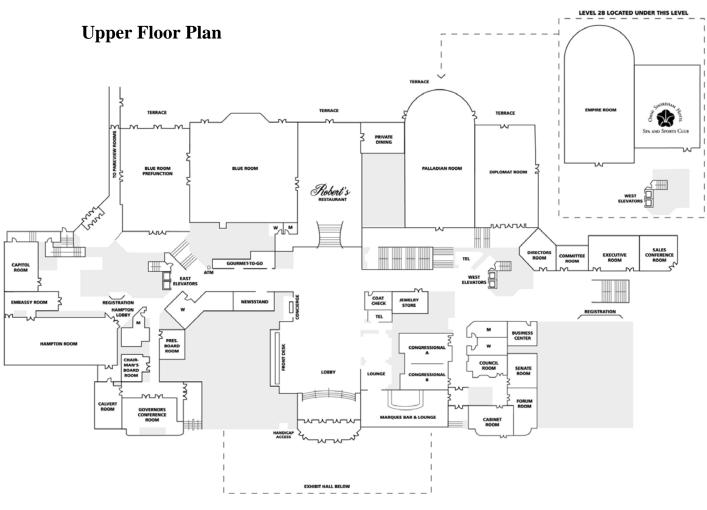
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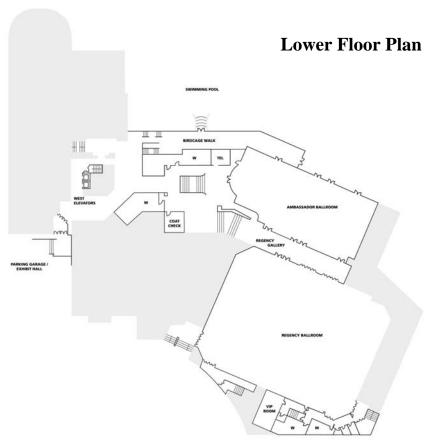
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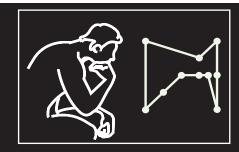






Conference At A Glance

	Wednesday	Thursday	Friday	Saturday
8:00 – 8:15		Opening Remarks		P. in Marking
8:15 – 9:15		Plenary Talk	Plenary Talk	Business Meeting
9:15 – 9:30		Break	Break	Break
9:30 – 11:00		6-track session: 4 talks each	Rumelhart Symposium & 2-track session: 4 talks each	6-track session: 4 talks each
11:00 – 11:15	Workshops & Tutorials	Break	Break	Break
11:15 – 12:15	8:30am to 5pm	7-track session: 3 talks each	7-track session: 3 talks each	7-track session : 3 talks each
12:15 – 1:45	Coffee Breaks 10 – 10:30 am	Lunch	Lunch	Lunch
1:45 – 3:15	3 – 3:30 pm Lunch	6-track session: 4 talks each	6-track session: 4 talks each	6-track session: 4 talks each
3:15 – 3:30	Noon to 1:30	Break	Break	Break
3:30 – 4:30		Rumelhart Lecture	30th Anniversary Symposium & 2-track session:	30th Anniversary Symposium & 2-track session:
4:30 – 5:00		Rumelhart Reception	4 talks each	4 talks each
5:00 - 5:30 5:30 - 7:00		Posters	Posters	Posters



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Department of Psychological Sciences
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Nicholas R. Burns, Michael D. Lee, and Douglas Vickers (2006)
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and Cognitive Optimization Problems Determined by General

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Matthew Dry, Michael D. Lee, Douglas Vickers, and Peter Hughes (2006) Human Performance on Visually Presented Traveling Salesperson Problems with Varying Numbers of Nodes

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CogSci 2008 Main Program Information

Workshops & Tutorials • Wednesday, July 23, 2008

8:30–5:00 Meeting Room

<i>Workshop:</i> Psychocomputational Models of Human Language Acquisition (Psychocompla-2008)	William Gregory Sakas, David Brizan	Diplomat Room
Tutorial: Polyscheme and Cognitive Substrate Tutorial	Nicholas Cassimatis, Perrin Bignoli, Unmesh Kurup	Council Room
<i>Tutorial:</i> The Use of Event-Related Potentials to Study the Development and Decline of Cognitive Function	Debra L. Mills, Steven J. Luck	Executive Room
Tutorial: Bayesian Models of Inductive Learning	Thomas L. Griffiths, Charles Kemp, Joshua B. Tenenbaum	Congressional
Tutorial: The Clarion Cognitive Architecture: A Tutorial	Sébastien Hélie, Nick Wilson, Ron Sun	Cabinet Room
Tutorial: Quantum Information Processing Theory	Jerome R. Busemeyer	Senate Room
<i>Tutorial:</i> Dynamic Field Theory: Conceptual Foundations and Applications in the Cognitive and Developmental Sciences	John P. Spencer, Gregor Schöner	Calvert Room

8:30-12:00

<i>Workshop:</i> Preparing Research Grant Proposals for the Institute of Education Sciences: Bringing Cognitive Science to Education Research	Elizabeth R. Albro	Capitol Room
Tutorial: Act-R Tutorial	Niels A. Taatgen, Hedderik van Rijn	Forum Room

10:30-5:00

Tutorial: Computational Modeling of Spoken Language	Ted J. Strauss, Daniel Mirman,	Governor's
Processing: A hands-on tutorial	James Magnuson	Room

1:30-5:00

<i>Tutorial:</i> Embodied Cognition and Robotics Approaches to Human Cognition and Learning	Chen Yu, Brian Scassellati	Capitol Room
Tutorial: Eye Tracking Research in Infants and Adults	Daniel C. Richardson, Scott P. Johnson	Forum Room

NOTES:

Thursday, July 24, 2008

8:00-8:15		Pdf No. on CD
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8:15–9:15 • Plenary Talk	Regency Ballroom	
Words, Actions, Objects, and Abstractions: Overlapping loops of cause and consequence in developmental process	Linda B. Smith	25
9:15–9:30 • Coffee Break		
9:30-11:00 • 6 Track Session		
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Thursday, July 24, 2008

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11:00-11:15 • Coffee Break

11:15-12:15 • 7 Track Session

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Regency Ballroom

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(Chair: Thomas T. Hills)

Ambassador Ballroom

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Thursday, July 24, 2008

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12:15–1:45 • Lunch (on your own)

Thursday, July 24, 2008

1:45–3:15 • 6 Track Session	Thursday, July 24, 2008	
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Structured Correlation From the Causal Background	Ralf Mayrhofer, Noah D. Goodman, Michael R. Waldmann, Joshua B. Tenenbaum	303
nternal and External Forces on Memory and Action (Chair: Daniel Richardson)	Diplomat Room	
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Spatial Cognition (Chair: David Landy)

Blue Room

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3:15-3:30 • Coffee Break

3:30-4:30

Rumelhart Lecture

Regency Ballroom

Kumeinari Leciure	negency buildon	
Recognition, Categorization, and the Emergence of Meaning	Shimon Ullman 2008 Rumelhart Prize Winner	377
4:30–5:30 • Rumelhart Reception	Diplomat Terrace/Empire Patio	
5:30–7:00 • Poster Session 1	Exhibit Hall	See page 31 of program

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Concepts and Categories (Chair: Brian Murphy)	Empire Room		
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Modeling Category Intuitiveness	Emmanuel M. Pothos, Amotz Perlman, Darren J. Edwards, Todd M. Gureckis, Peter M. Hines, Nick Chater	415	
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11:00–11:15 • Coffee Break			
11:15–12:15 • 7 Track Session			
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Using the Distributional Statistics of Speech Sounds for	Joseph C. Toscano, Rob McMurray	133	

Time?	Lera Boroditsky	427
Using the Distributional Statistics of Speech Sounds for Weighting and Integrating Acoustic Cues	Joseph C. Toscano, Bob McMurray	433
Language As a Cognitive Technology: English-Speakers Match Like Pirahã When You Don't Let Them Count	Michael C. Frank, Evelina Fedorenko, Edward Gibson	439

11:15–12:15 • 7 Track Session (continued)

Friday, July 25, 2008

Visual Word Recognition at Multiple Grain Sizes (Chair: Jason Zevin) Ambassador Ballroom

Division of Labor Between Semantics and Phonology in Normal and Disordered Reading Development Across Languages	Jianfeng Yang, Bruce Mccandliss, Hua Shu, Jason D. Zevin	445
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Constraints for Computational Models of Reading: Evidence From Learning Lexical Stress	Padraic Monaghan, Joanne Arciuli, Nada Seva	457

Cognitive Development (Chair: Aaron Buss)

Empire Room

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Analogy-Making in Children: the Importance of Processing Constraints	Jean-Pierre Thibaut, Robert French, Milena Vezneva	475

Evaluating Judgments and Meaning (Chair: Robert Lindsey)

Diplomat Room

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Experience With a Computer Word-Entry Method in Processing Chinese Characters by Fluent Typists	Jenn-Yeu Chen, Chun-Yu Chuang	487
More-Or-Less Elicitation (Mole): Testing a Heuristic Elicitation Method	Matthew B. Welsh, Michael D. Lee, Steve H. Begg	493

Overcoming Misconceptions During Learning

(Chair: David Trumpower)

Palladian Room

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An Empirical Study of Errors in Translating Natural Language into Logic	Dave Barker-Plummer, Richard Cox, Robert Dale, John Etchemendy	505
Learning Associations That Run Counter to Biases in Learning: Overcoming Overshadowing and Learned Inattention	Andrew F. Heckler, Jennifer A. Kaminski, Vladimir M. Sloutsky	511

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Human Dimension & Cognitive Performance	Brigadier General Peter Palmer	517

Higher-Order Cognition (Chair: Andres Guiral) Executive Room

A Cognitive Model Testing Moral Seduction Theory: Unconscious Bias and the Role Played by Expertise (Expertise and Moral Seduction)	Andrés Guiral, Waymond Rodgers, Emiliano Ruiz, José A. Gonzalo	519
The "Hard" Problem and Neural Correlates of Consciousness	Peter Slezak	525
Processes and Constraints in Explanatory Scientific Discovery	Pat Langley, Will Bridewell	527

1:45-3:15 • 6 Track Session

ymposium	Regency Ballroom	
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anguage and Concept (Chair: Thomas Shultz)	Ambassador Ballroom	
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Advances in Modeling Human Category Learning with Diva	Kenneth J. Kurtz	545
Decision Making (Chair: Daniel Navarro)	Empire Room	
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From Reduction Back to Higher Levels	William Bechtel, Adele Abrahamsen	559
Stopping Rules and Memory Search Termination Decisions	J. Isaiah Harbison, Eddy J. Davelaar, Michael R. Dougherty	565
Problem Solving (Chair: Julie Booth)	Diplomat Room	
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anguage I (Chair: Nathaniel Smith)	Palladian Room	
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1:45–3:15 • 6 Track Session (continued)

Friday, July 25, 2008

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Opponent Process Control in Linked, Dynamical Agents	Ronnie G. Ward, Robert G. Ward	625
A Computational Model of the Visual Oddity Task	Andrew Lovett, Kate Lockwood, Kenneth Forbus	631
Counting Sheep is a Good Way to Get to Sleep, But the Occasional Aardvark Will Wake You Up: How a Salient Event Improves Performance	Bella Z. Veksler, Wayne Z. Gray	637

3:15-3:30 • Coffee Break

3:30–5:00 • 30^{th} Anniversary Symposium (Part I) & 2 Track Session

30th Anniversary Symposium

Regency Ballroom

Cognitive Science: The Past 30 Years and the Next 30 Years	John R. Anderson, James L. McClelland, Linda B. Smith, Edwin Hutchins, Lawrence W. Barsalou, Dedre Gentner, Kenneth D. Forbus, William Bechtel, Elissa L. Newport, Douglas L. Medin	643
Semantic Interference (Chair: Leendert van Maanen)	Ambassador Ballroom	

The Picture-Word Interference Effect is a Stroop Effect After All	Leendert van Maanen, Hedderik van Rijn	645
Priming and Lexical Interference in Infancy	Suzy J. Styles, Natalia Arias-Trejo, Kim Plunkett	651
On the Persistence of Structural Priming: Mechanisms of Decay and Influence of Word-Forms	Gaurav Malhotra, Martin Pickering, Holly Branigan, James A. Bednar	657
Effect of Global Context on Homophone Ambiguity Resolution	Daniel Mirman, James S. Magnuson, Ted J. Strauss, James A. Dixon	663

Children's Understanding of Conceptual Primitives (Chair: John Opfer)

Empire Room

Representational Change and Numerical Estimation: Effect of Progressive Alignment on the Breadth of Transfer	Clarissa A. Thompson, John E. Opfer	669
Timing of Adults Utterances and Interpretation of Word Meanings in a Discrepant Labeling Situation	Tetsuya Yasuda, Harumi Kobayashi	675
The Structural Alignment and Comparison of Events in Verb Acquisition	Jane B. Childers	681
Will It Float? How Invariance Affects Children's Understanding of Object Density	Heidi Kloos	687

5:00–7:00 • Poster Session II Exhibit	ibit Hall	See page 37 of program
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Saturday, July 26, 2008

8:00–9:15 Pdf No. on CD

Cognitive Science Society Business Meeting

9:15-9:30 • Coffee Break

9:30-11:00 • 6 Track Session

9:30–11:00 • 6 Track Session		
Symposium	Regency Ballroom	
Understanding Why: the Cognitive Science of Explanation	Tania Lombrozo, Steven Sloman, Michael Strevens, J. D. Trout, Deena Weisberg	693
Symposium	Ambassador Ballroom	
Enhancing Learning Using Adaptive Computerized Tutoring in K-12 Settings	Carol O'Donnell, Robin Harwood, Barry Gholson, Art Graesser, Scotty D. Craig, Wayne Ward, Ronald Cole, Gautam Biswas, Daniel Schwartz, Kefyn M. Catley, Stephanie Siler	695
Computational Approaches to Language Learning (Chair: Julian Mayor)	Empire Room	
Learning to Associate Object Categories and Label Categories: A Self-Organising Model	Julien Mayor, Kim Plunkett	697
Language Modeling Prize: A Probabilistic Incremental Model of Word Learning in the Presence of Referential Uncertainty	Afsaneh Fazly, Afra Alishahi, Suzanne Stevenson	703
A Connectionist Simulation of Structural Rule Learning in Language Acquisition	Aarre Laakso, Paco Calvo	709
Mutual Exclusivity in Cross-Situational Statistical Learning	Daniel Yurovsky, Chen Yu	715
Language II (Chair: Meredith Brown)	Diplomat Room	
Syntax and Discourse Constraints Interact At the Level of Structural Representation: Evidence From On-Line Sentence Comprehension	Meredith Brown, Virginia Savova, Edward Gibson	721
Language Abstraction: Consolidation of Language Structure During Sleep	Michelle C. St. Clair, Padraic Monaghan	727
Generalization and Systematicity in Echo State Networks	Stefan L. Frank, Michal Čerňanský	733
Mechanisms of Verb Inflection — Regular Vs. Irregular Or Easy Vs. Hard?	Gert Westermann, Vanja Kovic, Nicolas Ruh	739
Models of Conceptual Structure (Chair: Lei Shi)	Palladian Room	
Performing Bayesian Inference With Exemplar Models	Lei Shi, Naomi H. Feldman, Thomas Griffiths	745
Learning a Hierarchical Organization of Categories	Steven Verheyen, Eef Ameel, Timothy T. Rogers, Gert Storms	751
Modeling Typicality: Extending the Prototype View	Wouter Voorspoels, Wolf Vanpaemel, Gert Storms	757
Principles of Generalization for Learning Sequential Structure in Language	Michael C. Frank, Denise Ichinco, Joshua B. Tenenbaum	763

9:30-11:00 • 6 Track Session (continued)

Saturday, July 26, 2008

Problem Solving (Chair: Ming Ming Chiu)

Blue Room

Statistical Discourse Analysis of Group Problem Solving: Evaluations, Wrong Ideas, Rudeness, Justifications, and Micro-creativity	Ming Ming Chiu	769
Upsides and Downsides of Gesturing in Problem Solving:	Patrick J. Cushen, Jennifer Wiley	775
Compound Analogical Design, or How to Make a Surfboard Disappear	Michael E. Helms, Swaroop E. Vattam, Ashok K. Goel	781
Social Science: Complex Cognition in Early Aids Research	Katherine D. Lippa, Valerie L. Shalin	787

11:00-11:15 • Coffee Break

11:15-12:15 • 7 Track Session

Language Comprehension & Processing

(Chair: Alexia Toskos Dils)

Regency Ballroom

Motion Language Shapes People?S Interpretation of Unrelated Ambiguous Figures	Alexia Toskos Dils, Lera Boroditsky	793
Does Social Information Influence Sentence Processing?	Laura Staum Casasanto	799
The Role of Cognitive Functions in Communication: the Case of Traumatic Brain Injury	Romina Angeleri, Francesca M. Bosco, Katiuscia Sacco, Marina Zettin, Livia Colle, Bruno G. Bara	805

Practice, Practice (Chair: Aryn Pyke)

Ambassador Ballroom

Why Do the Math? the Impact of Calculator Use on Participants' Actual and Perceived Retention of Arithmetic Facts	Aryn Pyke, Jo-Anne LeFevre, Ruby Isaacs	811
To Understand Your Understanding, You Must Understand What Understanding Means	Jennifer Wiley, Thomas D. Griffin, Keith W. Thiede	817
The Role of Deliberate Practice in Expertise: Necessary But Not Sufficient	Fernand Gobet	823

Reasoning (Chair: Thomas Shultz)

Empire Room

A Computational Developmental Model of the Implicit False Belief Task	Vincent G. Berthiaume, Kristine H. Onishi, Thomas R. Shultz	825
The Strategy Behind Belief Revision: a Matter of Judging Probability Or the Use of Mental Models?	Ann G. Wolf, Markus Knauff	831
Training a Bayesian: Three-And-A-Half-Year-Olds' Reasoning about Ambiguous Evidence	Elizabeth Baraff Bonawitz, Adina Fischer, Laura Schulz	837

Mental & Spatial Representations (Chair: Thomas Hills)

Diplomat Room

Evidence for Generalized Cognitive Search Processes At Multiple Levels in a Hierarchical Problem Solving Task	Thomas T. Hills, Robert L. Goldstone, Peter M. Todd	843
The Role of Internal Information in the Spatial Learning Task Through Path Integration:	Kayoko Ohtsu	845
Situated and Prospective Path Planning: Route Choice in an Urban Environment	Jan M. Wiener, Thora Tenbrink, Jakob Henschel, Christoph Hölscher	851

9:30–11:00 • 7 Track Session (continued)

Saturday, July 26, 2008

Higher-Order Cognition (Chair: Janet Hui-Wen Hsiao)

Palladian Room

Hemispheric Asymmetry in Visual Perception Arises From Differential Encoding Beyond the Sensory Level	Janet Hui-Wen Hsiao, Reza Shahbazi, Garrison Cottrell	857
Can Relationality Be Distinguished From Abstractness in Noun Mutability?	Dedre Gentner, Jennifer Asmuth	863
Tracks in the Mind: Differential Entrenchment of Common and Rare Liturgical and Everyday Multiword Phrases in Religious and Secular Hebrew Speakers	Jonathan Berant, Catherine Caldwell-Harris, Shimon Edelman	869

The Nature of Human Capacity Limitations (Chair: Brad Love) Blue Room

Predicting Information Needs: Adaptive Display in Dynamic Environments	Bradley C. Love, Matt Jones, Marc T. Tomlinson, Michael Howe	875
Decoupling of Intuitions and Performance in the Use of Complex Visual Displays	Mary Hegarty, Harvey S. Smallman, Andrew T. Stull	881
Efficient Coding in Visual Short-Term Memory: Evidence for an Information-Limited Capacity	Timothy F. Brady, Talia Konkle, George A. Alvarez	887

Culture, Cognition, and Mathematics (Chair: Lindsey Richland) Executive Room

Gesturing to Promote Higher-Order Thinking: Cross-Cultural Differences	Lindsey E. Richland	893
Cultural Mixture Modeling: Identifying Cultural Consensus (And Disagreement) Using Finite Mixture Modeling	Shane T. Mueller, Elizabeth S. Veinott	899
Extending the Limits of Counting in Oceania: Adapting Tools for Numerical Cognition to Cultural Needs	Andrea Bender, Sieghard Beller	905

12:15–1:45 • Lunch (on your own)

NOTES:

1:45-3:15 • 6 Track Session

Saturday, July 26, 2008

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Analogy and Reasoning (Chair: Iris van Rooij)	Executive Room	
Identifying Sources of Intractability in Cognitive Models: An Illustration Using Analogical Structure Mapping	Iris van Rooij, Patricia Evans, Moritz Müller, Jason Gedge, Todd Wareham	915
Similarity Between Propositional Elements Does Not Always Determine Judgments of Analogical Relatedness	Ricardo A. Minervino, Nicolás Oberholzer, Máximo Trench	921
Mapping and Inference in Analogical Problem Solving — As Much As Needed Or As Much As Possible?	Eva Wiese, Uwe Konerding, Ute Schmid	927
Human Logic in Spatial Reasoning	Marco Ragni	933
Using Multiple Information Sources in Language Planning and Understanding (Chair: Austin F. Frank)	Diplomat Room	
Speaking Rationally: Uniform Information Density as an Optimal Strategy for Language Production	Austin F. Frank, T. F. Jaeger	939
What Tunes Accessibility of Referring Expressions in Task-Related Dialogue?	Ellen Gurman Bard, Robin L. Hill, Mary Ellen Foster	945
Anticipatory Eye Movements Mediated by Word Order Constraints	Paul E. Engelhardt, Ming Xiang, Fernanda Ferreira	951
Speakers Communicate Their Perceptual-Motor Experience to Listeners Nonverbally:	Susan Wagner Cook, Michael K. Tanenhaus	957
The Use (and Lack Thereof) of Visual and Verbal Information (Chair: Gary Lupyan)	Palladian Room	
Now You See It, Now You Don't: Verbal But Not Visual Cues Facilitate Visual Object Detection	Gary Lupyan, Michael J. Spivey	963
Musical Change Deafness: The Inability to Detect Change in a Non-speech Auditory Domain	Kat R. Agres, Carol L. Krumhansl	969
Picture Perception and the Two Visual Subsystems	Bence Nanay	975
Action Anticipation and Interference: A Test of Prospective Gaze	Erin Cannon, Amanda L. Woodward	981

1:45-3:15 • 6 Track Session (continued)

Saturday, July 26, 2008

Action & Explanations	(Chair: Lisa M. Oakes)
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Blue Room

How Outcomes of Actions Influence Infants' Representation of Those Actions	Lisa M. Oakes, Sammy Perone, Kelly L. Madole	987
Thinking by Doing and Doing by Thinking: A Taxonomy of Actions	Hansjörg Neth, Thomas Müller	993
The Pragmatics of Explanation	Seth Chin-Parker, Alexandra Bradner	999
Who Framed Roger Rabbit: the Effect of Legal Role and Frame on the Outcome of Civil Disputes	Victoria Gilliland, John C. Dunn, Daniel J. Navarro	1005

3:15-3:30 • Coffee Break

3:30-5:00 • 30th Anniversary Symposium (Part II) & 2 Track Session

30th Anniversary Symposium

Regency Ballroom

Cognitive Science: The Past 30 Years and the Next 30 Years	John R. Anderson, James L. McClelland, Linda B. Smith, Edwin Hutchins, Lawrence W. Barsalou, Dedre Gentner, Kenneth D. Forbus, William Bechtel, Elissa L. Newport, Douglas L. Medin	643
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Approaches to Language Learning (Chair: Luca Onnis)

Blue Room

Variation Sets Facilitate Artificial Language Learning	Luca Onnis, Heidi Waterfall, Shimon Edelman	1011
Grounding Word Learning in Multimodal Sensorimotor Interaction	Chen Yu, Linda B. Smith, Alfredo F. Pereira	1017
What You Learn is What You See: Using Eye Movements to Study Infant Cross-Situational Word Learning	Chen Yu, Linda B. Smith	1023
How Features Create Knowledge of Kinds	Shohei Hidaka, Linda B. Smith	1029

Modeling Cognition (Chair: Fermín Moscoso Del Prado Martín)

Empire Room

A Fully Analytical Model of the Visual Lexical Decision Task	Fermín Moscoso Del Prado Martín	1035
A Rational Analysis of Confirmation With Deterministic Hypotheses	Joseph L. Austerweil, Thomas L. Griffiths	1041
Fluency and Psychological Distance	Daniel M. Oppenheimer, Anuj K. Shah, Adam L. Alter	1047
Optimal Predictions in Everyday Cognition: The Wisdom of Individuals or Crowds?	Michael C. Mozer, Harold Pashler, Hadjar Homaei	1051

5:00–7:00 • Poster Session III	Exhibit Hall	See page 45 of program
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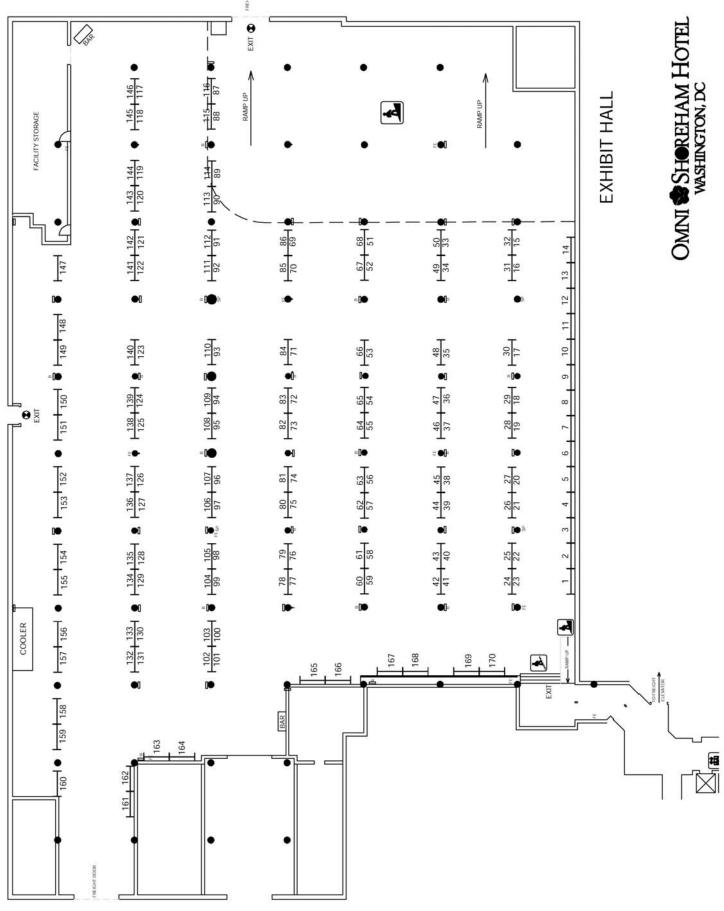
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CogSci 2008 Poster Sessions Floorplan



CogSci 2008 Poster Session I

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50	Learning Composable Signals for a Cognitive Substrate	Jacob Beal	1653
51	Learning Abstract Principles Through Principle-Case Comparison	Julie Colhoun, Dedre Gentner, Jeffrey Loewenstein	1659
52	A Model-Based Approach to Second-Language Learning of Grammatical Constructions	Gwen Alexandra Frishkoff, Lori Levin, Phillip Pavlik Jr., Kaori Idemaru, Cornelia De Jong	1665
53	Sub-Functions of Human Learning Process During a Sequential Task	Sergey Tarasenko, Toshio Inui, Abdikeev Niyaz	1671
54	Learning the Form of Causal Relationships using Hierarchical Bayesian Models	Christopher Lucas, Thomas Griffiths	
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55	of Student Dialogue That Underlie Theories of Learning	Myroslava Dzikovska, Johanna Moore, Charles Callaway	1672
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89	Finding Feature Representations of Stimuli: Combining Feature Generation and Similarity Judgment Tasks	Matthew D. Zeigenfuse, Michael D. Lee	1825
90	Modeling Two Kinds of Reasoning	Evan Heit, Caren M. Rotello	1831
91	Logical Thinking, Deontic Reasoning, and the Fairness Principle: Exploring the Relationship Between Selection Tasks and the Ultimatum Game	Kuninori Nakamura	1837
92	Probability Estimates in Diagnostic Reasoning: Variations of Causal Links and Modeling Uncertainty	Franziska Bocklisch, Georg Jahn, Katja Mehlhorn, Josef F. Krems	
93	Truth-Based Or Possibility-Based Compatibility Judgments and Handley Et Al.?S (2006) Litmus Test of the Suppositional Conditional	Walter Schroyens	1838
94	Memory Judgments of Relative Order in Short Lists: Multiple Strategies Are Available, Depending on Wording of Instructions:	Michelle Chan, Jeremy B. Caplan	1839
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95	Similarity Between Vowels Influences Response Execution in Word Identification:	Jason D. Zevin, Thomas A. Farmer, Bruce D. McCandliss	1840
96	Presentation Modality in Age of Acquisition Rating Reflects Mode of Acquired Knowledge: Evidence From Category- Specific Effects:	Armina Janyan, Elena Andonova	1841
97	The Duck/Rabbit Illusion: Re-examination of Information Encapsulation	Aysu Suben, Michael Anderson, Tony Chemero	1847
98	Top-Down and Bottom-Up Processes in Web Search Navigation:	Shu-Chieh Wu, Craig S. Miller	1848
99	Examining the Hidden Factors That Underpin Semantic Representation: What Functional Brain Imaging Reveals about the Neuroarchitecture of Object Knowledge:	Kai-Min Kevin Chang, Tom Mitchell, Marcel Adam Just	1854
100	Different Mechanisms Control the Allocation of Perceptual Processing Resources and Decisional Resources in Perceptual Categorization:	Duncan Guest	1855
101	Classifying Objects Based on Their Visual Similarity to Target Categories:	Wei Zhang, Dimitris Samaras, Gregory J. Zelinsky	1856
102	Category Labels Highlight Feature Interrelatedness in Similarity Judgment:	Na-Yung Yu, Takashi Yamauchi, Jay Schumacher	1862
103	Autonomous Perceptual Feature Extraction in a Topology- Constrained Architecture:	Sylvain Chartier, Gyslain Giguère	1868
104	The Ideal Representation of Role-Governed Categories:	Micah Goldwater, Hunt Stilwell, Arthur Markman	1874
105	Is Prototypical Typical?:	Wolf Vanpaemel, Eef Ameel, Gert Storms	1875
106	The Effect of the Internal Structure of Categories on Perception:	Todd M. Gureckis, Rob L. Goldstone	1876
107	Does Functional Knowledge Have a Privileged Status in the Speeded Computation of Word Meaning?:	Ada Le, Renante Rondina Il, George S. Cree	1882

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Sound Symbolism in Word Learning:	Lynne C. Nygaard, Allison E. Cook, Laura L. Namy	1912
A Stochastic Model for the Vocabulary Explosion	Colleen C. Mitchell, Bob McMurray	1918
Learning Words From Context	Vladimir Sloutsky, Xin Yao	1924
Identifying Cognitive and Linguistic Strategies in Successful Nonfiction Writing	Gregory Aist	1929
Prior Knowledge Bootstraps Cross-Situational Learning	Krystal A. Klein, Chen Yu, Richard M. Shiffrin	1930
Words Or Word Boundaries? Examining Performance on Statistical Word Segmentation Tasks:	Jeremy J. Glick, James L. McClelland	1936
Structuring the Vowel Space: an Investigation of Turkish and Inuktitut:	Brian Dillon, William Idsardi, Colin Phillips	1937
Cross-Situational Statistical Learning From Noisy Input:	Brian Riordan, Chen Yu	1938
Sound Versus Meaning: What Matters Most in Early Word Learning?	Sarah Devi Sahni, Timothy T. Rogers	1939
The Automaticity of Statistical Word Learning	George Kachergis, Chen Yu, Richard M. Shiffrin	1940
Inferring a Probabilistic Model of Semantic Memory From Word Association Norms:	Mark Andrews, David Vinson, Gabriella Vigliocco	1941
On the Utility of Conjoint and Compositional Frames and Utterance	Daniel Freudenthal, Julian Pine, Fernand Gobet	1947
Gradations in Phonological Learning	Stephanie Packard, Prahlad Gupta	1953
Acquisition and Representation of Grammatical Categories: Grammatical Gender in a Connectionist Network	Jelena Mirkovic, Mark Seidenberg, Maryellen Macdonald	1954
If You Haven't Got a Head, Get a Label	Vanja Kovic, Kim Plunkett, Gert Westermann	1960
Word Sense and Sensibility: Mental Representations of Polysemy	Susan Brown	1961
ERPs and Evolved Gamma-band Oscillations in a Single-Word Translation: Concreteness Effect in Cognates and Non-Cognates	Armina Janyan, Ivo Popivanov, Elena Andonova	
Statistical Co-Learning of Visual and Linguistic Regularities to Improve Word-Learning	Brian Riordan, Chen Yu	1962
Mutual Exclusivity in Adjective Learning: the Case of Bilingual Children and Monolingual Children	Hanako Yoshida, Megumi Kuwabara, Maria Guerrero	1963
	Are Congruent: Towards the Resolution of Searle?'s Chinese Room Challenge Vacillation and Hesitation in Category Rating:Evidence From Pc Cursor Trajectories: Viewing Anthropomorphic Animals Increases Anthropocentrism Stand Word Learning Friday, July 25 Vocabulary Development in English and Chinese: a Comparative Study With Self-Organizing Neural Networks: Lsa As a Measure of Coherence in Second Language Natural Discourse: Sound Symbolism in Word Learning: A Stochastic Model for the Vocabulary Explosion Learning Words From Context Identifying Cognitive and Linguistic Strategies in Successful Nonfiction Writing Prior Knowledge Bootstraps Cross-Situational Learning Words Or Word Boundaries? Examining Performance on Statistical Word Segmentation Tasks: Structuring the Vowel Space: an Investigation of Turkish and Inuktitut: Cross-Situational Statistical Learning From Noisy Input: Sound Versus Meaning: What Matters Most in Early Word Learning? The Automaticity of Statistical Word Learning Inferring a Probabilistic Model of Semantic Memory From Word Association Norms: On the Utility of Conjoint and Compositional Frames and Utterance Gradations in Phonological Learning Acquisition and Representation of Grammatical Categories: Grammatical Gender in a Connectionist Network If You Haven't Got a Head, Get a Label Word Sense and Sensibility: Mental Representations of Polysemy ERPs and Evolved Gamma-band Oscillations in a Single-Word Translation: Concreteness Effect in Cognates and Non-Cognates Statistical Co-Learning of Visual and Linguistic Regularities to Improve Word-Learning	Are Congruent: Towards the Resolution of Searle?'s Chinese Room Challenge Vacillation and Hesitation in Category Rating:Evidence From Pc Cursor Trajectories: Viewing Anthropocentrism Search Word Learning Friday, July 25 - 5:00-7:00 PM Exhibit Hall Vocabulary Development in English and Chinese: a Comparative Study With Self-Organizing Neural Networks: Lasa As a Measure of Coherence in Second Language Natural Discourse: Sound Symbolism in Word Learning: Sound Symbolism in Word Learning: Jynne C. Nysgaard, Allison E. Cook, Laura L. Namy A Stochastic Model for the Vocabulary Explosion Learning Words From Context Identifying Cognitive and Linguistic Strategies in Successful Nonfiction Writing Words Or Word Boundaries? Examining Performance on Statistical Word Segmentation Tasks: Structuring the Vowel Space: an Investigation of Turkish and Inuktinu: Cross-Situational Statistical Learning From Noisy Input: Brian Riordan, Chen Yu. Sarah Devi Sahni, Timothy T. Rogers Learning? The Automaticity of Statistical Word Learning On the Utility of Conjoint and Compositional Frames and Utterance On the Utility of Conjoint and Compositional Frames and Utterance On the Utility of Conjoint and Compositional Frames and Utterance On the Utility of Conjoint and Compositional Frames and Utterance On the Utility of Conjoint and Compositional Frames and Ocabella Vigliocco On the Utility of Conjoint and Compositional Frames and Utterance On the Utility of Conjoint and Compositional Frames and Ocabella Vigliocco On the Utility of Conjoint and Compositional Frames and Ocabella Vigliocco On the Utility of Conjoint and Compositional Frames and Ocabella Vigliocco On the Utility of Conjoint and Compositional Frames and Ocabella Vigliocco On the Utility of Conjoint and Compositional Frames and Ocabella Vigliocco On the Utility of Conjoint and Compositional Frames and Ocabella Vigliocco On the Utility of Conjoint and Compositional Frames and Ocabella Vigliocco On the Utility of Conjoint and Compositional Frames a

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133	The Phylogenetic Roots of Cognitive Dissonance	Jennifer Vonk, Samantha West, Stephanie E. Jett	1970
134	Predicting Cognitive Driver Distraction With Threaded Cognition Theory	Dario D. Salvucci, Joanna Beltowska	1971
135	A Graphical Chunk Production Model: Evaluation Using Graphical Protocol Analysis With Artificial Sentences	Peter C-H. Cheng, Hector Rojas-Anaya	1972
136	When Do Standard Approaches for Measuring Vocabulary Difficulty, Syntactic Complexity and Referential Cohesion Yield Biased Estimates of Text Difficulty?	Kathleen M. Sheehan, Irene Kostin, Yoko Futagi	1978
137	The Interaction Between Information and Intonation Structure: Prosodic Marking of Theme and Rheme	Max Louwerse, Patrick Jeuniaux, Bin Zhang, Jie Wu, Ehsan Hoque	1984
138	Perception of Direction and Its Influence on Geometric Discoveries	Francisco Lara-Dammer, Douglas R. Hofstadter	1990
139	Storage and Recall in Simple Recurrent Neural Networks	Christo N. Kirov	1995
140	One of These Greebles is Not Like the Others: Semi-Supervised Models for Similarity Structures	Rachel Stephens, Daniel Navarro	1996
141	How Perception and Mapping Interact During the Analogy- Making Process and the Process of Reinterpretation	Boicho Kokinov, Svetlin Kosev	2002
142	A Fast Computational Model of Analogical Retrieval (And Mapping)	Dervla O'Keeffe, Fintan Costello	2003
143	Timecourse of Recovery From Interruptions: Searching for Common Trends Across Multiple Environments	David Cades, Raj Ratwani, J. Gregory Trafton, Deborah Boehm-Davis	2009
144	Toward a Model of Differential Influence in Discussions: Negotiating Quality, Authority, and Access Within a Heated Student Argument	Randi A. Engle, Jennifer Langer-Osuna, Maxine Mckinney De Royston	2010
145	An Integrated Model of Action Video Game Play	Marc Destefano, Wayne D. Gray	2016
146	Individual Differences in Sustained Vigilant Attention: Insights From Computational Cognitive Modeling	Glenn Gunzelmann, L. Richard Moore, Kevin A. Gluck, Hans P. A. Van Dongen, David F. Dinges	2017
147	Spatial Modeling Using a Bimodal Cognitive Architecture	Unmesh Kurup, B Chandrasekaran	2023
148	A Computational Model of Repetition Blindness Using a Liquid State Machine	Patrick Michael Hynes, Ronan Reilly	2024
149	A Single Layer Network Model of Center Embedding and Hierarchical Phrase Structure in Sentence Processing	Simon Dennis, Dennis Mehay	
150	Computational Perception of Sizes	Julia Taylor, Lawrence Mazlack	2025
151	The Speed/Accuracy Tradeoff in Estimating Means: the Role of Data Characteristics	Bradley Morris, Amy Masnick, Christa Natschke, Adrianne Spenner, Stephanie Hammond, Deardra Kearney	2026
152	An Analysis of the Human Processing of Verbal Humour through Eye-Tracking Experiments	Rada Mihalcea, Stephen Pulman, Vanja Kovic, Kim Plunkett	
153	Discrete Measurement of Sensory Information Using Bayesian Networks	Chris Thornton	2027

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154	Effects of Social Information on Distance E	stimation	Justin L. Matthews, Teenie M	l atlock	2028
155	Encoding Spatial Layout in the Dark: Robus Spatial Learning	stness of Visual	Naohide Yamamoto, John W.	Philbeck	2029
156	The Impact of Attentional Shifts on Spatial I Childhood	Memory in Early	Anne R. Schutte, Brian Keise Chelsie Kobza-Guerrero, Ma	*	2030
157	The Integration of Spatial Information Acros Perspectives	ss Different	Jan M. Wiener, Tobias Meilir	nger, Alain Berthoz	2031
158	Segmention of Inside-Outside Relations and Contours in the Parietal Lobes	Complex	Nabeela Akhtar, M Jane J. R Glyn W W. Humphreys	iddoch,	2037
159	The Role of Animacy in Imagined Spatial T	ransformations	Alfred B. Yu, Jeffrey M. Zack	s	2038
160	Spatial Location Uncertainty As Modifier of Asymmetries	Attentional	Dariusz Asanowicz, Piotr Wo	olski	2039
161	Pointing Out the Role of Gesture in Spatial	Development	Megan Sauter, David Uttal, Susan Goldin-Meadow, Susa	n Levine	2040
162	How Visual Information Affects a Spatial Ta	nsk	Peter Khooshabeh, Mary He	garty	2041
163	Spatial Skills As Predictors of Geometry Ac	hievement	Yvonne S. Kao, John R. Ande	erson	2047
164	You Drive All the Way to?!! Effects of Pro Environment and Travel Patterns on Spatial		Penney Nichols-Whitehead, Paige Werner, Tara Amarose Tiffany Rowe		2048
165	The Relationship Between the Perception of and Spatial Memory	Symmetry	Margaret R. Ortmann, Anne	R. Schutte	2049
166	Mental Rotations and Spatial Cognition: Co Between Vision and Touch	mparisons	André F. Caissie, Lucette Toi Yannick Blandin	ussaint,	2050
167	Spatial Reasoning in Cognitive Architecture	S	Michael Matessa		2051
168	Around the World in 80 Steps or How to Re From Within	present Space	Brian Milligan, Jun Luo		2052
169	Spatial Cognition in Different Spaces		Harry Haroutioun Haladjiar Carlos Montemayor	ı,	2058
170	Regularities of Shapes in Visuospatial Image Evidence from Drawings	nation:	Jim Davies		

NOTES:

CogSci 2008 Poster Session III

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2	Bayesian Modeling of Human Sequential Decision-Making on the Multi-Armed Bandit Problem	Daniel Acuna, Paul Schrater	2065
3	Investigating Distributed Decisions Using Bandit Problem Environments	Sheng Kung Michael Yi	2071
4	Mistaking the Instance for the Rule: a Critical Analysis of the Truth-Table Paradigm and Implications for Theories of Conditional Reasoning	Walter Schroyens	2077
5	Activation Or Inhibition? Why Reasoners Are Not Blind for Alternative Explanations	Katja Mehlhorn, Martin R. K. Baumann, Franziska Bocklisch	2083
6	Ageing, Plasticity, and Cognitive Reserve in Connectionist Networks	Michael S. C. Thomas	2089
7	Problem Representations in Multitasking: an Additional Cognitive Bottleneck	Jelmer P. Borst, Niels A. Taatgen, Hedderik Van Rijn	2095
8	Incongruity of Premise Content and Type Affects Reasoning Performance	Sharon Lee Armstrong	2096
9	Modeling Ancient and Modern Arithmetic Practices: Addition and Multiplication With Arabic and Roman Numerals	Dirk Schlimm, Hansjoerg Neth	2097
10	Understanding Complex Problem Solving: the Case of Ethics Decision-Making	Russell W. Robbins, William A. Wallace	2103
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24	Does Verbalization Always Impair Insight Problem Solving?	Sachiko Kiyokawa, Mariko Kirihara	2151
25	The Difference in Brain Activity by the Difference in Reading Speed: A Psychological Experiment and NIRS Measurements	Kazuhiro Ueda, Naoya Kato, Haruaki Fukuda, Toyofumi Sasaki, Masaharu Kato	2152
26	Entropy and Set Size in Free Association	Lance W. Hahn	2153
27	Effects of Constituency on the Processing of Lexicalized and Novel Compound Words	Robert Fiorentino, Ella M. Fund-Reznicek	2154
28	Is It Better to Give than to Receive? the Assistance Dilemma As a Fundamental Unsolved Problem in the Cognitive Science of Learning and Instruction	Kenneth R. Koedinger, Phillip Pavlik, Bruce Mclaren, Vincent Aleven	2155
29	Concepts Are Not ?Webs of Sensation?: Evidence From Motion Words	Marina Bedny, Alfonso Caramazza, Emily Grossman, Alvaro Pascual-Leone, Rebecca Saxe	2161
30	Evidence for the Early Detection of Voicing Mismatch in Obstruent Consonant Clusters	So-One Hwang, Philip J. Monahan, William J. Idsardi	2167
31	An Act-R Representation of Information Processing in Autism	Michael Matessa	2168
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33	How Do Bilingual Speakers Deal With Phonological Similarity Across Languages? an Investigation of Syllable Production Processes: Syllable Production in Bilingual Speakers	FXavier Alario, Violaine Michel, Carla Castellano, Jeremy Goslin, Marina Laganaro	2175
34	When and How Often Should Worked Examples Be Given to Students? New Results and a Summary of the Current State of Research	Bruce M. Mclaren, Sung-Joo Lim, Kenneth R. Koedinger	2176
35	Phonological and Orthographic Consistency Effects in Cortex for Normal and Impaired Readers	Donald J. Bolger, Jennifer Minas, Fan Cao, Douglas D. Burman, James R. Booth	2182
36	Category Properties and the Category-Order Effect	Jordan Schoenherr, Robert H. Thomson	2183
37	Online Ill-structured Problem-solving Strategies	Serkan Toy, Dale Niederhauser	
38	Dissimilarity and Blending:Bases for the Concept - Synthesizing Process- Comparison Between the Linguistic Interpretation and Design Processes	Yukari Nagai, Futoshi Mukai, Toshiharu Taura	2189
39	Multimodal Text-graphics Comprehension: The Role of annotation position in causal attributions	Cengiz Acarturk, Christopher Habel	
40	When do Temporal Expectancies Guide Retrospective Judgments of Waiting Time?	Florian Klapproth	
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43	Prosodic Correlates of Linguistic and Extra-Linguistic Information in Dutch	Diana Dimitrova, Gisela Redeker, Markus Egg, John C. J. Hoeks	2191
44	Individual Differences in Language Processing: an Embodie Approach	ed Xu Xu	2197
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48	What Does a Shopper Expect to Save the Role of Event Knowledge in Verb Interpretation	David Race, Natalie Klein, Mary Hare, Michael Tanenhaus	2219
49	Online Expectations for Verbal Arguments Conditional on Event Knowledge	Klinton Bicknell, Jeffrey L. Elman, Mary Hare, Ken Mcrae, Marta Kutas	2220
50	Individuals Vary in the Conception of Input-Output Feature of Mental Processes	Xu Xu	2226
51	Event Knowledge Vs. Verb Knowledge	Jon A. Willits, Rachel Shirley Sussman, Michael S. Amato	2227
52	Dissociation Patterns Between Schizophrenic Patients and Their Controls in Theory of Mind and Language Comprehension Tasks	José M. Gavilán, José E. García-Albea	2233
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55	Schematisation of the Lexical Meanings: A Case Study	Mbame Nazaire	2236
56	Identifying Emotional Characteristics from Short Blog Texts	Alastair J. Gill, Robert M. French, Darren Gergle, Jon Oberlander	2237
57	Associative Interference Links Memory for Pairs with Memory for Serial Lists	Mayank Rehani, Jeremy B. Caplan	2243
58	Early and Late Effects of Morphological Decomposition: Brain correlates of family size effects on complex words and pseudowords	Miguel Lazaro, Javier S. Sainz	
59	Discourse Relations in Context: Structural Effects in the Comprehension of Texts	Eyal Sagi	2244
60	Position of Complements and Complementation Frames Within Lexical Representation of Verbs	Stanislava Antonijevic	2245
61	How Different Are Familiar Metaphors from Unfamiliar One	s? Tomohiro Taira, Takashi Kusumi	2246
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63	On the Path to Understanding the On-Line Processing of Grammatical Aspect	Sarah Anderson, Teenie Matlock, Caitlin Fausey, Michael Spivey	2253

64	Using Diagrams to Design Information Systems	James E. Corter, Jeffrey V. Nickerson, Barbara Tversky, Doris Zahner, Yun Jin Rho	2259
65	Temporal Concepts and Frames of Reference: Thinking about Time Between Language and Space:	Alexander Kranjec, Laraine Mcdonough	2265
66	The Cognitive Plausibility of the Use of Cognitive Maps and the Mental Simulation of Others:	William G. Kennedy	2266
67	Comparing the Utility of Pairwise and Feature-Derived Similarity Measures for Generating Spatial Representations of Semantic Concepts:	Matthew J. Dry, Gert Storms	2267
68	The Influence of Perceptual Difficulty on Family Resemblance Sorting:	Fraser Milton, Andy Wills	2273
69	Good Times, Bad Times: Valence Influences the Adoption of Spatio-Temporal Metaphors	Christopher H. Ramey, Evangelia G. Chrysikou, Christopher H Ramey	2279
70	Role of Imagistic Simulation in Creative Scientific Thought Experiments	John J. Clement	2280
71	A Model of Language Processing and Spatial Reasoning Using Skill Acquisition to Situate Action	Scott Douglass, John Anderson	2281
72	Integrating Semantic and Visual Aspects of Online Information Search	Hansjoerg Neth, Evan W. Patton, Steven Banas, Michael J. Schoelles, Wayne D. Gray	2287
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74	Aptness is a Bear: Evaluating the Relationship Between Metaphor Quality and Metaphor Comprehension	Brian F. Bowdle	2289
75	The Thermal Qualities of Substance: a Cross-Cultural Account	Srini Narayanan	2290
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81	Practice Effects on Interruption Tolerance in Algebraic Problem-Solving Learning From Scrolling Interfaces: Interactions with	David M. Schnyer Diana Woelki, Antti Oulasvirta, Jürgen Kiefer, Robert Lischke	2316
81	Practice Effects on Interruption Tolerance in Algebraic Problem-Solving Learning From Scrolling Interfaces: Interactions with Working Memory Capacity Learning Correct Responses and Errors in the Hebb	David M. Schnyer Diana Woelki, Antti Oulasvirta, Jürgen Kiefer, Robert Lischke Christopher A. Sanchez, Jennifer Wiley Daniel Lafond, Mathieu Couture,	2316
81 82 83	Practice Effects on Interruption Tolerance in Algebraic Problem-Solving Learning From Scrolling Interfaces: Interactions with Working Memory Capacity Learning Correct Responses and Errors in the Hebb Repetition Paradigm Computational Modelling of Mental Imagery in Chess:	David M. Schnyer Diana Woelki, Antti Oulasvirta, Jürgen Kiefer, Robert Lischke Christopher A. Sanchez, Jennifer Wiley Daniel Lafond, Mathieu Couture, Sébastien Tremblay	2316 2322 2323

86	Investigating Limited Perception Effects from a Cognitive Science Perspective	Eshaa Alkhalifa	2331
87	Crossover Effect As Observed in Individuals with Learning Disabilities	Beth M. Hartzler, Richard B. Anderson, Frederick Parente, Bryan Devan, Herbert Petri	2336
88	Linking Target Estimation and Cued Recall Through Common Working and Long Term Memory Processes	Evelina Dineva, John P. Spencer	2337
89	Can Unsuccessful Tests Enhance Learning?	Lindsey Richland, Liche Sean Kao, Nate Kornell	2338
90	The Influence of Stimulus Frequencies and Task Instruction in Artificial Grammar Learning	Fenna Poletiek, Nick Chater	
91	From List Learning to Semantic Knowledge: Search and Learning of Associative Memory	Greg E. Cox, J. Isaiah Harbison, Eddy J. Davelaar	2344
92	Crossmodal Binding in Working Memory	Anne T. Gilman, Colin Ware	2350
93	Remembrance of Things Tagged: How tagging affects human information processing	Raluca Budiu, Peter Pirolli, Lichan Hong	
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95	The Role of Integration Scaffolding in Learners' Self-Regulated Learning With Multiple External Representations	Amy Witherspoon, Roger Azevedo	2352
96	Does a Lack of Contiguity With Visual Text Cause the Modality Effect in Multimedia Learning?	Anne Schueler, Katharina Scheiter, Peter Gerjets, Ralf Rummer	2353
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98	Coordinating Principles and Examples Through Analogy and Explanation	Timothy J. Nokes, Kurt Vanlehn, Daniel M. Belenky	2365
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102	Are Self-Explaining and Coached Problem Solving More Effective When Done by Pairs of Students than Alone?	Robert G.M. Hausmann, Brett Van De Sande, Kurt Vanlehn	2369
103	The Effects of Feedback Elaboration on the Giver of Feedback	Ryan S. Wooley, Christopher A. Was, Christian D. Schunn, David W. Dalton	2375
104	Using Teachable Agent Feedback to Support Effective Learning by Teaching	Rod Roscoe, John Wagster, Gautam Biswas	2381
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106	Impact of the 2d and 3d Vision on the Learning of Fine Motor Skills According to the Instrumental Dimension: Implications for Training in Minimal Invasive Surgery	Adélaïde Blavier, Anne-Sophie Nyssen	2388
107	Designing Structured Invention Tasks to Prepare for Future Learning	Ido Roll, Vincent Aleven, Kenneth R. Koedinger	2394
108	Using Self-Explanation to Improve Algebra Learning	Julie L. Booth, Kenneth R. Koedinger, Robert S. Siegler	2395

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110	Effects of Action Orientation on Coping With Negativity in Prisoners Dilemma Game Playing	Gergana Kusmova, Evgenia Hristova, Maurice Grinberg	2397
111	Incremental Syntactic Disambiguation Using Depicted Events: Plausibility, Co-Presence and Dynamic Presentation	Emilia Ellsiepen, Pia Knoeferle, Matthew W. Crocker	2398
112	Adapting Referring Expressions to the Task Environment	Markus Guhe, Ellen Gurman Bard	2404
113	Active Object Exploration in Toddlers and Its Role in Visual Object Recognition	Alfredo F. Pereira, Karin H. James, Susan S. Jones, Linda B. Smith	2410
114	Processing of First- Vs. Third-Person Narratives	Tristan C. Thomte, Herbert H. Clark	2416
115	Effects of Handedness and Orientation on Tool Naming and Use	Evangelia G. Chrysikou, Shannon Fouse, Sharon L. Thompson-Schill	2417
116	The Recruitment of Language in the Perception of Objects	Kevin J. Holmes, Laura L. Namy, Phillip Wolff	2418
117	Manipulating Sudoku Strategies	Michael Schoelles, Hansjorg Neth, Alison Dennis, Wayne D. Gray	2419
118	Object-Specific Preview Benefit and Multiple Object Tracking: Priming Effects Enhanced During Active Tracking for Both English Letters and Unfamiliar Symbols	Harry Haroutioun Haladjian, Zenon W. Pylyshyn	2420
119	Motivating Use of an Object-Centered Frame of Reference:	Laurie E. Robinette, Michele I. Feist, Michael Kalish	2421
120	The Task Structures the Response: Reference Frame Alignment in Toddlers Emerging Object Search Strategies	Lynn K. Perry, Larissa K. Samuelson, John P. Spencer	2422
121	Cultural Differences in Cognitive Processing Style: Evidence From Eye Movements During Scene Processing	Zihui Lu, Meredyth Daneman, Eyal M. Reingold	2428
122	Theory of Mind and Automatic Processing	Adam Scott Cohen, Tamsin C. German	2433
123	Remembering When Words Are Mutually Exclusive	Emily Mather, Kim Plunkett	2434
124	Seeing Heaviness	Matthew Streit, Kevin Shockley, Michael A. Riley	2440
125	Efficient Expression of 2d Shapes Using Points in Consideration of Human Visual Characteristics	Hiroyo Ishikawa, Hideo Saito	2445
Other	Other Agents, Social Cognition, and Emotion Saturday, July 26, 2008 • 5:30-7:00 PM Exhibit Hall		
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127	Determinants of ?Change Deafness? Rates in an Ecologically Valid Social Scenario	Thomas A. Farmer, Melanie Hamel, Kat Kgres, Sheena Rogers	2447
128	Cascade Effect in Perceiving Onset Timings of Others' Responses and Feeling about Communication	Yuichiro Yoshikawa, Kazunori Yamauchi, Hiroshi Ishiguro	2448
129	Benefits of Using Empirical Data in the Hci Design Process	Sarah Kriz, J. Gregory Trafton	2454
130	Social Responses to Collaborator: Dilemma Game with Human and Computer Agent	Kazuhisa Miwa, Hitoshi Terai, Satoshi Hirose	2455
131	Cognitive Knowledge, Skills, Abilities and Others (Ksaos) Extracted From Corporate Mbo Data	Kohei Noda, Micihtsugu Yamauchi, Daisaku Kitamura	2461
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133	Motion Behavior and Its Influence on Human-Likeness in an Android Robot	Michihiro Shimada, Hiroshi Ishiguro	2468
134	Motor Dynamics of Task Switching	Nicholas C. Hindy, Michael J. Spivey	2474
135	The Difference in the Manner of Interacting with a Moving Robot Influences Animacy Perception	Haruaki Fukuda, Kazuhiro Ueda	2480
136	Introducing Emotions in an Analogy-Making Model	Ivan Vankov, Kiril Kiryazov, Maurice Grinberg	2485
137	Coordination and Self-Similarity of Verbal and Nonverbal Behaviors During Face-To-Face Dyadic Conversation	Kathleen T. Ashenfelter, Steven Boker, Jennifer Waddell	2491
138	People's Interpretations of Agents' Attitude From Artificial Sounds Expressed by Agents With Different Appearances	Takanori Komatsu, Seiji Yamada	2492
139	A Robot's Experience of Another Robot: Simulation	Tibor Bosse, Johan F. Hoorn, Matthijs Pontier, Ghazanfar F. Siddiqui	2498
140	A Robot's Experience of Its User: Theory	Johan F. Hoorn	2504
141	Examining the Level of Aggression in Italian Professional Soccer	Franco Zengaro, Sally Zengaro, Asghar Iran-Nejad	2510
142	Associative Symmetry Generalizes to Asymmetric Pairs	Christopher R. Madan, Mackenzie G. Glaholt, Jeremy B. Caplan	2511
143	What Goes on in a Meeting? An Empirical Study	Nik Nailah Binti Abdullah, Elia Tomadaki, Peter Scott, Shinichi Honiden	2512
144	A Gestalt-Base Knowledge Representation for Controlling Cognitive Biases	Fumihito Ikeda	2513
145	Towards a Workload-Performance Prediction Tool	Daniel N. Cassenti, Troy Kelley	2514
146	The Regulatory Self of the Extended Mind	Hsi-Wen Daniel Liu	2515
147	The Cognitive Science of Affect: Toward a Biological Embodiment Perspective	Asghar Iran-Nejad	2516
148	Hunting Harvey: Imaginary Companion Analogs in Adults	Deborah J. O. Hendersen	2517

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