

# CogSci 2009

31st Annual Meeting of the Cognitive Science Society



## **Plenary Speakers**

Susan Carey Nicola Clayton  
Stanislas Dehaene Randall O'Reilly  
Joshua Tenenbaum

## **Program Chairs**

Niels Taatgen Hedderik van Rijn  
Lambert Schomaker John Nerbonne

**Amsterdam 29 July - 1 August**

# Program at a glance

Wednesday									
9:00-12:30	Tutorials and Workshops (see page 16-17)								
12:30-13:30	Lunch break								
13:30-17:00	Tutorials and Workshops								
Thursday									
8:45-9:00	Aula	KC-07	Auditorium	02A-00	04A-00	06A-00	08A-00	10A-00	
Opening and Awards Ceremony — Aula									
Plenary From Spikes to Object Recognition and Beyond: Building an Embodied Brain <i>Randall O'Reilly</i> — Aula									
10:10-11:30	Symposia	Argument quality: An interdisciplinary perspective	Theoretical perspectives on impairments in spoken language processing	The interface between language and thought	Psychological and computational perspectives on recognition of moving faces	Music Cognition: Learning and Processing	Models and Analogies in Conceptual Restructuring	Rational Process Models	Visual Reasoning in Modeling and Design
11:40-12:40		Symmetry & Vividness in Vision	Language production		Development and Reasoning	Methodology		Development & Representation	Concepts & Categories
12:50-13:50		Extensions to Bayesian Modeling	Sign Language	Statistical Learning in Language	Reasoning	Neuroscience			Concepts, Categories & Metacognition
14:00-15:00		Philosophy and Bayes	Development and Language	Interaction between Vision and Language	Reasoning	Individual Differences	Education & Representation	Cognitive Control	Concepts & Categories
Rumelhart Award Lecture <b>The Origin of Concepts</b> <i>Susan Carey</i> — Aula									
16:20-17:20	Rumelhart Reception — Foyer								
Poster Session 1 — Around the perimeter of the Aula									
Friday									
	Aula	KC-07	Auditorium	02A-00	04A-00	06A-00	08A-00	10A-00	
Plenary Back to the Future: Is Mental Time Travel Unique to Humans? <i>Nicola Clayton</i> — Aula									
10:10-11:30	Symposia	Rumelhart	Memory in Language: Language in Memory	The emergence of collective structures through individual interactions					
11:40-12:40		Emotion & Motivation	Word Reading		Analogy		Problem Solving		Concepts & Categories
12:50-13:50		Situated Philosophy	Quantifiers & Abstractness	Sentence Processing		Bayes	Education, Problem Solving & Power Laws		Concepts & Categories
14:00-15:00		Philosophy of Artificial Intelligence	Integrating cues in language processing	Aspects of Dialogue	Decision Making	Bayes	Skill Acquisition & Education	Attention	Development & Categories
15:10-16:10		Philosophy	Morphology	Interactions between speaker and listener	Analogy	Bayes	Education	Attention	Embodied Representations
Heineken Award Lecture <b>Masking, conscious access, and the blind spot of introspection</b> <i>Stanislas Dehaene</i> — Aula									
Poster Session 2 — Around the perimeter of the Aula									

Saturday									
	Aula	KC-07	Auditorium	02A-00	04A-00	06A-00	08A-00	10A-00	
7:45-8:45	Business Meeting — Aula								
9:00-10:00	Plenary <b>How to grow a mind: Statistics, structure and abstraction</b> <i>Joshua Tenenbaum</i> — Aula								
10:10-11:30	How an embodied mind perspective can influence the study of emotion	Cultural evolution of language: Implications for cognitive science	The cognitive science of Bilingualism	Mathematical Cognition and its cultural dimension	The cognitive science of religion	Relational and role-governed categories	Scaling laws in cognitive science	Cognitive and neural foundations of concepts	
11:40-12:40	Anthropology	Word and Gender Learning		Decision Making	Event-Related Potentials	Human-Computer Interaction	Reasoning	Symposium: Visual Analytics	
12:50-13:50		Word & Category Learning	Cross-situational Learning	Decision Making	Pitch and Vocal signals across Cultures and Species	Human-Computer Interaction		Spatial Cognition	
14:00-15:00	Philosophy and Situated Cognition	Computational Models of Language Learning	Inferences from Language	Decision Making	Ecological Cognition		Memory	Spatial Cognition	
15:10-16:10		Concepts & Categories in Language	Learning Language	Decision Making	Neuroscience & Biology	Scientific and Causal Knowledge	Memory	Perception	
16:20-17:20	Robotics	Category Acquisition	Cross-linguistic Analysis	Higher-level Cognition	Metacognition	Education & Problem Solving	Memory	Perception	
17:30-19:00	Poster Session 3 — Around the perimeter of the Aula								

**Note: All sessions are paper presentation sessions unless noted otherwise**

# Introduction

Welcome to the 31st Annual Conference of the Cognitive Science Society! It is a great pleasure to welcome you to the Netherlands. After Edinburgh and Stresa, this is the third time that the main meeting is organized in Europe. Cognitive science is a growing field of research within the Netherlands. The Dutch Science Foundation (NWO) has just completed a successful Cognition program, and is just starting a new Brain and Cognition program. For the first time in several years the conference has no specific theme, which we sincerely hope you haven't noticed up to now. This, however, left us completely unconstrained to invite three excellent plenary speakers who each approach cognition from a different angle. Nicola Clayton studies cognition from the perspective of animals, and draws parallels with children's development. Josh Tenenbaum's Bayesian approach has taken the Conference by storm in the past few years, and Randy O'Reilly has developed neural networks in both the direction of biologically plausibility and higher-level cognition. The three invited speakers are complemented by the winner of the 2009 Rumelhart Prize, Susan Carey with outstanding work in cognitive development, and 2008 Heineken Prize winner Stanislas Dehaene, whose research spans so many areas of cognition that it is impossible to summarize in one sentence.

The main thrust of the conference consists of the submissions from its participants. This year we received a record number of 946 submissions, 703 of which were standard 6-page papers. We accepted 232 (33%) of the papers for oral presentation and 277 (39%) as posters. To accommodate the presentations, along with 20 symposia and 16 publication-based talks, we have increased the number parallel sessions to eight. Instead of extending the program to early morning and late evening, we have chosen to eliminate the lunch break. Fortunately, you will still be able to get lunch during any of the three sessions in the middle of the day: you just have to accept that on a conference of this scope you cannot attend everything. On the first day of the conference we offer an attractive and extensive tutorial and workshop program. This program has grown substantially over the last couple of years, and now makes a good reason to think of CogSci as a true four-day event.

Every year the conference chairs try to contribute something to the conference. Last year the scheduling of the sessions was taken over by AI, but this year we are going to take it a step further: the students of the University of Groningen have made a recommender system that will tell you exactly what sessions you should attend based on your interests (see the next page for details). Which more or less means you do not need this program anymore.

Many people contributed to the success of this conference as members of the organizing committee and program committee: you can find their names on page 8. We specifically want to thank Kevin Gluck and Deborah Gruber. The continuity they bring to organizing this conference makes it possible for the meeting to keep growing, and for the program chairs to hold on to their sanity. Thanks also to 867 reviewers, James Stewart for his prompt help to keep the reviewing website running. And, finally, thanks to all the sponsors who helped make CogSci09 possible.

Have a great conference, and a great time in Amsterdam! (in that order, please)

## Lunch

This year there is no designated lunch break, but instead lunch is available throughout three sessions: 11:40-12:40, 12:50-13:50, and 14:00-15:00. The main lunch option is the restaurant below the Aula, which offers affordable lunch options. We encourage everyone to spread out lunch breaks as much as possible, because even though the restaurant has a high capacity it cannot handle 1000 people all at the same time. In addition, just outside the main building Café “the Basket” offers slightly more upscale lunch. Otherwise, there are several restaurants close to the railway station (see map on page 7).

## Proceedings

This year we are not supplying a CD with the proceedings anymore, but have made the proceedings available on the Internet. The proceedings can be accessed or downloaded through the following addresses:

Server in Europe during the conference: <http://www-abc.mpib-berlin.mpg.de/CogSci09/>

Permanent North America server: <http://csjarchive.cogsci.rpi.edu/>

## Online program recommendation

Given the huge number of choices in the program, the students of the University of Groningen have developed a system that can help you plan your sessions. You can indicate your profile by entering your preferences or by uploading an bibliography file (.RIS) to the system. The system will then present the program to you along with what it thinks you will find most interesting. After making your selections, the program will output your personalized road map through CogSci 2009.

We would like to thank Emil Kraaikamp for developing the final system. The system can be accessed through the following address:

<http://www.ai.rug.nl/cogsci09/>

## Locations

Room KC-07, the reception and the restaurant are on the ground floor, and the Aula, Auditorium, Foyer and poster area are on the first floor (see back of the program). The first two digits of the other rooms indicate the floor that they are on (e.g., 04A-00 is on the fourth floor).

Important note: No Food and Drinks are allowed in any of the rooms!

## **Plenary Overflow**

The Aula has a capacity of 900 seats. If the capacity proves to be insufficient, the Auditorium will serve as an overflow area where the presentation will be projected on a video screen.

## **Presentation instructions**

### **Oral presentations**

Each talk is allotted 20 minutes, which includes time for questions and changing speakers. We recommend that you plan on speaking for 15 minutes, leaving 5 minutes for questions and change of speaker. Each room has a video projector with standard VGA input. Speakers are responsible for bringing their own laptop, or arranging shared use with other speakers in their session.

The last speaker in each session has been assigned the role of session chair. The duty of the session chair is to announce each speaker and to keep track of time. We will provide signs that indicate how much time a speaker has left.

### **Poster presentations**

The size of the poster boards is 1.25 meter (4.1 ft) width and 1 meter (3.3 ft) height. Although the height is somewhat flexible (the poster can stick out), the width is not. Material (velcro) to attach the poster to the poster boards will be provided: push pins cannot be used. Posters can be put up after 13:50, and have to be removed at the end of the poster session.

## **Transportation**

The best way to get to and from the conference location is by using tram line 5, which stops right next to the conference building (see map on page 7). It departs approximately every 10 minutes from early morning to around midnight. The stop at the VU is called “De Boelelaan/VU”, and the line serves the Museumplein, the Leidseplein, the Spui, the Dam and Central Station. See <http://www.gvb.nl/english/> for more information, or <http://www.9292ov.nl> for a general public transport planner.

Alternatively, you can do what people in Amsterdam do: travel the city by bicycle (this is what your program chairs will do). Bicycles can be rented at several places: ask your hotel for the closest rental location.

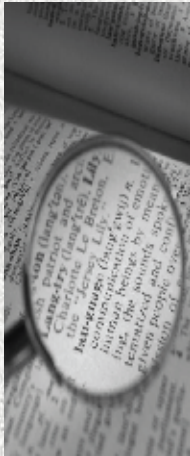
## **Internet**

There is wireless internet at the Vrije Universiteit. You will find instructions on how to use it in your conference packet.

# Linguistic Society of America



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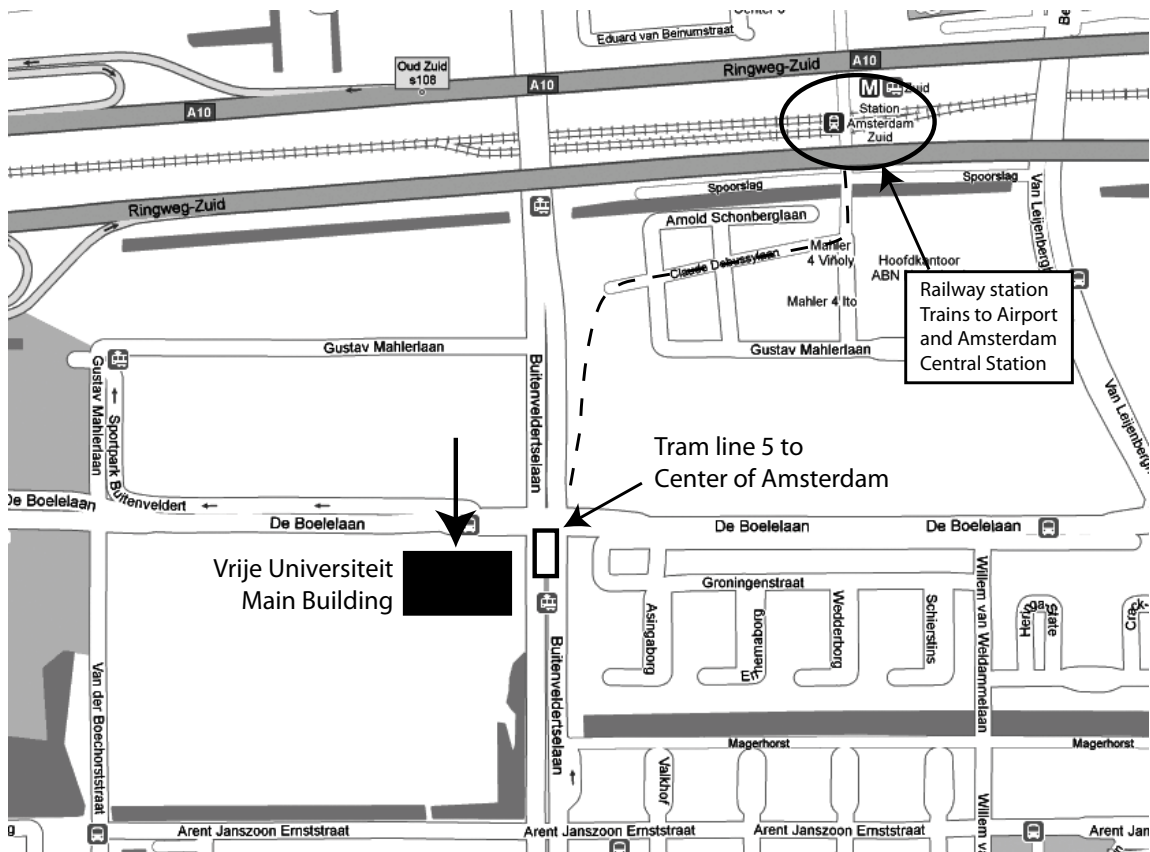


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Tom Ziemke



## 2009 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 2009 Marr Prize for Best Student Paper is (see page 18 of the program):

**Jennifer B. Misyak**

Morten H. Christiansen

J. Bruce Tomblin

*Statistical Learning of Nonadjacencies Predicts On-line Processing of Long-Distance Dependencies in Natural Language*

### Computational Modeling Prizes

Four prizes worth \$1,000 each are awarded for the best full paper submissions to CogSci 2009 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 2009 Computational Modeling Prizes are:

Applied Cognition (see page 23)

Perception/Action (see page 19)

**Raj M. Ratwani and J. Gregory Trafton**

*Developing a Predictive Model of Postcompletion Errors*

This prize sponsored by Netherlands Research School for Information and Knowledge Systems (SIKS) and the Cognitive Science Society

**Rosemary A. Cowell, David E. Huber, and Garrison W. Cottrell**

*Virtual Brain Reading: A Connectionist Approach to Understanding fMRI*

This prize sponsored by the Cognitive Science Center Amsterdam

Language (see page 18)

Higher-level cognition (see page 24)

**Mark Andrews and Gabriella Vigliocco**  
*Learning Semantic Representations with Hidden Markov Topics Models*

This prize sponsored by the Cognitive Science Center Amsterdam

**Christopher Crick and Brian Scassellati**  
*Intention-based Robot Control in Social Games*

This prize sponsored by the School of Behavioral and Cognitive Neuroscience (University of Groningen)

### **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 2009 Cognition and Student Learning Prize is (see page 23):

**G. Tanner Jackson, Rebekah H. Guess, and Danielle S. McNamara**

*Assessing Cognitively Complex Strategy Use in an Untrained Domain*

### **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 Robert J. Glushko and Pamela Samuelson Foundation generously sponsored \$10,000 for student travel awards for excellent papers.

The 2009 Travel Awards went to:

Daniel Sternberg	Kinga Morsanyi	Patricia Reeder
Jennifer Misyak	Drew Hendrickson	Naomi Feldman
Michael C. Frank	John Willits	Daniel Belenky
Jennifer A. Sturm	Christopher Crick	Shinwoo Kim
Morteza Dehghani	Andrew Maas	Kristie Fisher
K. Schloss	Moritz Mueller	Jennifer Roche
David J. Lobina	Michael Mack	

### **NSF Travel Awards**

The National Science Foundation sponsored travel awards to 80 US students and recent PhD recipients.

### **Awards Committee**

Richard Catrambone (Chair), Bruce Burns, Gary Dell, Jeff Elman, Brian Gane, Mary Hegarty, Andrew Howes, Boicho Kokinov, Marsha Lovett, Jean McKendree, Laura Novick, Fred Paas, David Peebles, Alexander Renkl, Dario Salvucci, Katharina Scheiter, Chris Schunn, Tamara van Gog.

## **Affiliate organizations**

**Human Factors and Ergonomics Society**    **Linguistic Society of America**

<http://hfes.org>

[www.lsadc.org](http://www.lsadc.org)

**Association for the Advancement of Artificial Intelligence**

<http://www.aaai.org>

## **CogSci 2009 Sponsors**

We sincerely thank the sponsors of the 31st Annual Cognitive Science Society Conference for their support of the conference, awards, workshops, tutorials, invited speakers, and for supporting student participation through reduced registration fees and travel support. We would also like to thank John Benjamins Publishing for providing the badge lanyards and pens.

**The Robert J. Glushko and  
Pamela Samuelson Foundation**

**Air Force Office of Scientific Research**

**Air Force Research Laboratory**

**Cognitive Science Center Amsterdam**

**Elsevier**

**German Cognitive Science Society**

**Institute of Educational Sciences**

**Office of Naval Research**

**National Science Foundation**, co-funded by the  
Research and Evaluation on Education in Science  
and Engineering (REESE), Research on Learning  
in Formal and Informal Settings (DRL) and the  
Perception, Action and Cognition (PAC) programs

**School of Behavioral and Cognitive Neurosciences,  
University of Groningen**

**Netherlands Research School for Information and  
Knowledge Systems (SIKS)**

**University of Illinois at Chicago**

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Booth 13 <http://www.dcs.qmul.ac.uk/research/imc/diet/>

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Booths 2, 3 <http://www.taylorandfrancisgroup.com/>

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Booths 9, 10 <http://www.wiley.com/WileyCDA/>

## Program Notes

	<b>On-Site Registration Hours (Reception Desk)</b>	<b>Packet Pick Up Hours (Reception Desk)</b>
<b>Wednesday</b>	7:30am-2:30pm	7:30am-5:30pm
<b>Thursday</b>	7:30am-1:30pm, 2:30-4:30pm	7:30am-4:30pm
<b>Friday</b>	8:00am-10:30am, 1:30pm-2:30pm	8:00am-3:30pm
<b>Saturday</b>	9:00am-10:00am	8:00am-2:30pm

### **Executive Committee Meeting**

Tuesday 1:00pm–5:00pm

Alma

### **Governing Board Meeting**

Wednesday 9:00am–5:00pm

Alma

### **Cognitive Science Society Business Meeting**

(All members are invited)

Saturday 7:45am-8:45am

Aula

## How to Cite Your Paper

*APA formatted citation for a 6-page Paper:*

De Groot, A. D., & Heymans, G. (2009). This is the title of the paper. In N. A. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society* (pp. 66-72). Austin, TX: Cognitive Science Society.

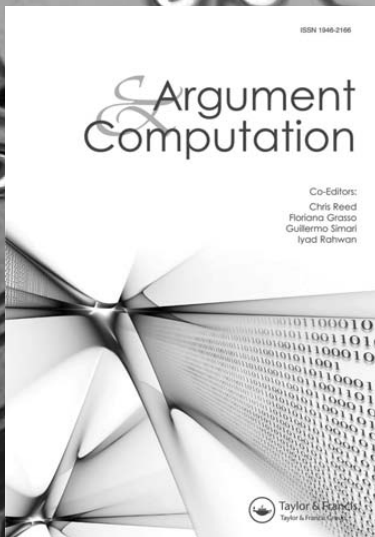
*APA formatted citation for a Published Abstract (note that this is not a refereed publication):*

De Groot, A. D. & Heymans, G. (2009). This is the title of the abstract [Abstract]. In N. A. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society* (p. 1031). Austin, TX: Cognitive Science Society.

*APA formatted citation for a talk (or poster) presentation:*

De Groot, A. D. & Heymans, G. (2009, July). This is the title of the talk or poster. Paper (or Poster) presented at the 31st Annual Conference of the Cognitive Science Society. Amsterdam, The Netherlands.

# Computer Science Journals from Taylor & Francis



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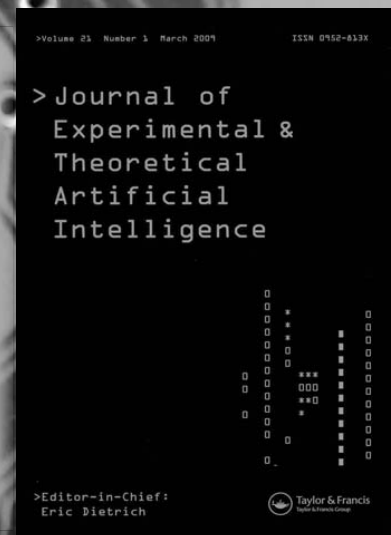
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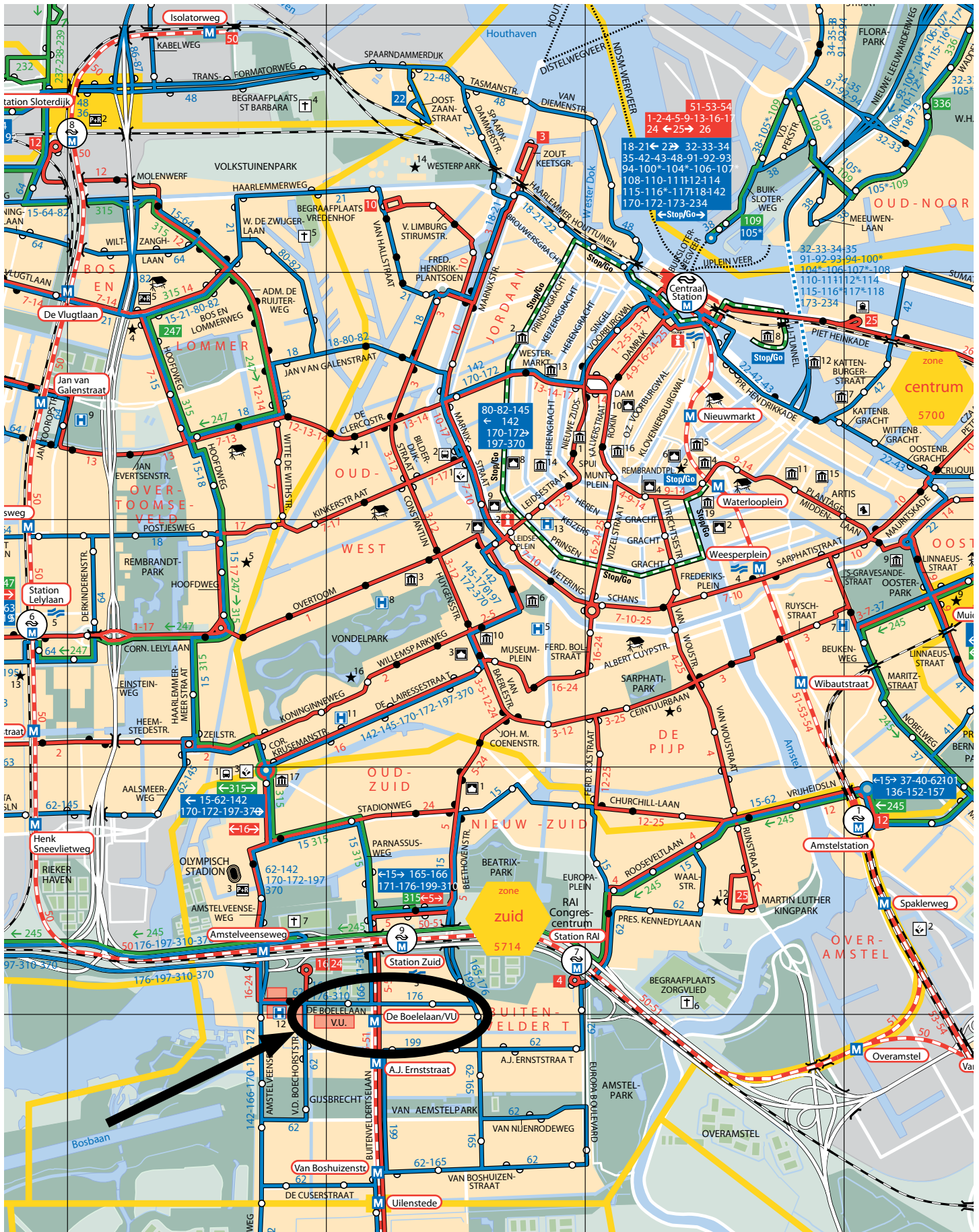
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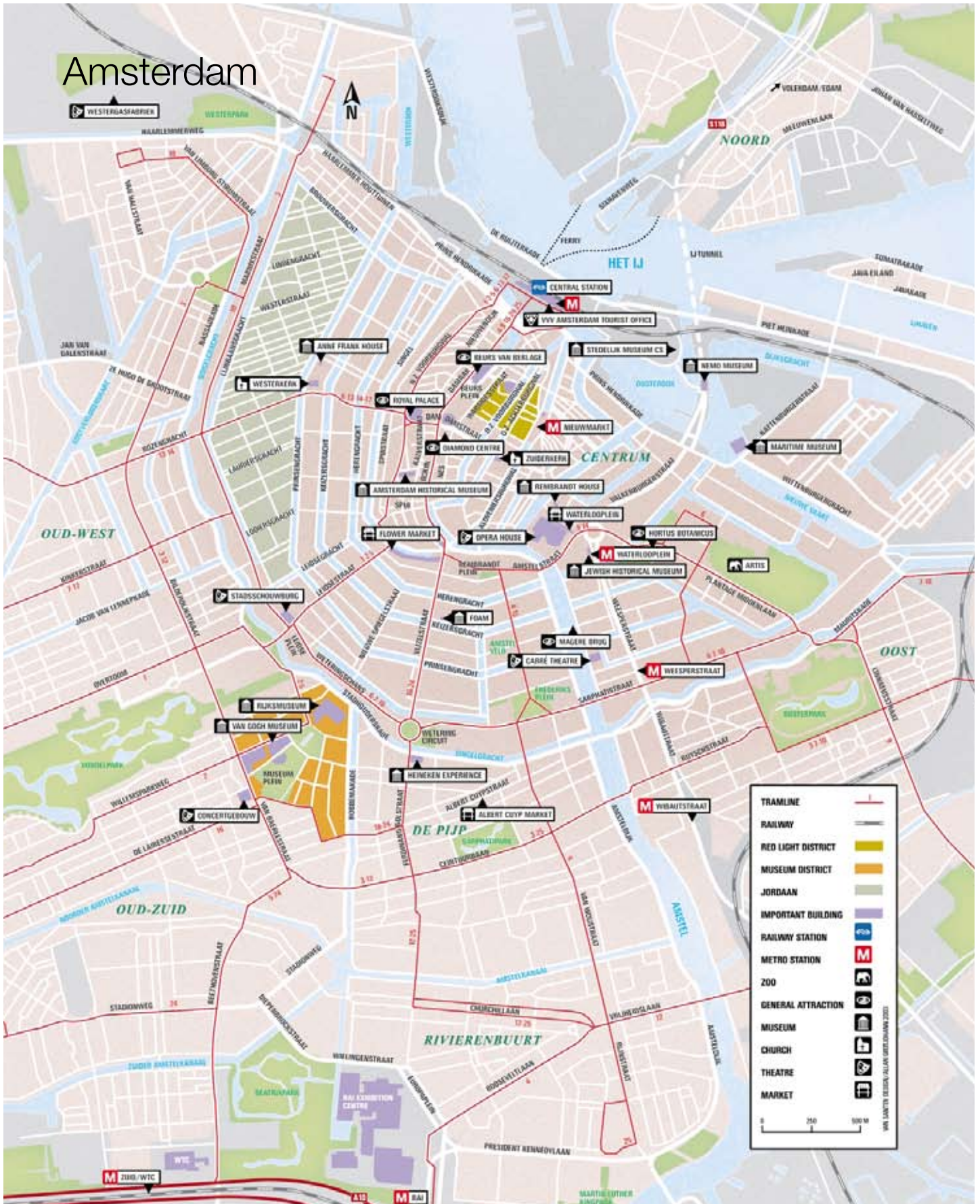
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# Amsterdam



## **Tutorials**

### **Quantum Information Processing Theory**

Jerome R. Busemeyer & Zheng Wang

9:00–17:00 Room 04A-05

### **Dynamic Field Theory: Conceptual Foundations and Applications in the Cognitive and Developmental Sciences**

Gregor Schoner, Christian Faubel, & Vanessa Simmering

9:00–17:00 Room 04A-04

### **EPAM/CHREST Tutorial: Fifty Years of Simulating Human Learning**

Peter C.R. Lane & Fernand Gobet

9:00–12:30 Room 02A-06

### **CogSketch Tutorial**

Kenneth D. Forbus

13:30–17:00 Room 02A-06

## **Tutorial and Workshop Program Committee**

Duncan Brumby

Matthew Crocker

Tom Griffiths

Glenn Gunzelmann

Gary Jones

Padraic Monaghan

Frank Ritter

Richard Young



## Workshops

### **ACT-R Workshop**

John R. Anderson, Daniel Bothell, Christian Lebiere, & Niels A. Taatgen

9:00–17:00 Room 01A-05

### **Large-Scale Cognitive Modeling using Model Integrated Computing**

Scott Douglass, Jonathan Sprinkle, Christopher Bogart, Nick Cassimatis, Andrew Howes, Randolph M. Jones, & Richard Lewis

9:00–17:00 Room 10A-04

### **New Developments in the Cognitive Science of Religion**

Luther H. Martin, Robert N. McCauley, & Armin W. Geertz

9:00–17:00 Room 05A-05

### **Production of Referring Expressions: Bridging the gap between computational and empirical approaches to reference**

Kees van Deemter, Albert Gatt, Roger van Gompel, & Emiel Krahmer

Website: <http://pre2009.uvt.nl/>

9:00–17:00 Room 05A-06

### **Intuitive Pedagogical Reasoning: An Interdisciplinary Workshop**

Patrick Shafto & Noah Goodman

9:00–17:00 Room 08A-05

### **Swarm Cognition Workshop**

Vito Trianni & Elio Tuci

Website: <http://laral.istc.cnr.it/swarm-cognition>

9:00–17:00 Room 08A-04

### **Psychocomputational Models of Human Language Acquisition**

William Gregory Sakas & Rens Bod

9:00–17:00 Room 06A-05

### **Merging professional development and science: Constructing a successful grant proposal**

Laurie Beth Feldman, Janet van Hell, Judith Kroll, & Suparna Rajaram

13:30–17:00 Room 02A-05

### **Distributional Semantics beyond Concrete Concepts**

Yves Peirsman, Yannick Versley, & Tim van de Cruys

Website: <http://www.let.rug.nl/disco2009/>

9:00–12:30 Room 02A-05

8:45 Opening Remarks and Award Ceremony

9:00 Plenary: From Spikes to Object Recognition and Beyond: Building an Embodied Brain — *Randall O'Reilly* Aula

	Aula	KC-07	Auditorium	02A-00
10:10	Symposium Argument quality: An interdisciplinary perspective <i>Ulrike Hahn, John Woods, Frans Van eemeren, John Fox, Mike Oaksford</i>	Symposium Theoretical perspectives on impairments in spoken language processing <i>Daniel Mirman, Audrey Kittredge, Randi Martin, Dorothy Bishop, Inge-marie Eigsti</i>	Symposium The interface between language and thought <i>Debi Roberson, Asifa Majid, Rob Goldstone, Elizabet Spaepen, Jules Davidoff, Lera Boroditsky, Mutsumi Imai, Gary Lupyan</i>	Symposium Recognition of moving faces <i>Nicholas Costen, Darren Cosker, Alan Johnston, Karen Lander, Paul Rosin, Hui Fang, Harry Griffin, Natalie Butcher, David Marshall, Eva Krumhuber</i>
11:40	<b>Symmetry &amp; Vividness in Vision</b>	<b>Language production</b>		<b>Development and Reasoning</b>
	Vividness and Behavioral-Specificity in Imagery - <i>Amedeo D'angiulli</i>	Producing Less Preferred Structures - <i>Susan Wagner Cook, T. Florian Jaeger, Michael Tanenhaus</i>		Heuristics and biases in autism - <i>Kinga Morsanyi, Simon Handley, Jonathan Evans</i>
	Similarity as Tractable Transformation - <i>Moritz Mueller, Iris van Rooij, Todd Wareham</i>	Language-general word production - <i>Padraig O'seaghdha, Jenn-yue Chen</i>		Language Helps Toddlers' Causal Reasoning - <i>Elizabeth Baraff Bonawitz, Alexandra Horowitz, Darlene Ferranti, Laura Schulz</i>
	Predicting Eye Fixations using Symmetry - <i>Gert Kootstra, Lambert R.B. Schomaker</i>	Event conceptualisation in language production - <i>Mary Carroll, Monique Flecken, Christiane Von stutterheim</i>		Preschoolers' Understanding of Freedom of Choice - <i>Tamar Kushnir, Henry Wellman, Nadia Chernyak</i>
12:50	<b>Extensions to Bayesian Modeling</b>	<b>Sign Language</b>	<b>Statistical learning in Language</b>	<b>Reasoning</b>
	One-Shot Learning with Bayesian Networks - <i>Andrew L. Maas, Charles Kemp</i>	BSL hand and mouth slips - <i>David Vinson, Robin Thompson, Robert Skinner, Neil Fox, Gabriella Vigliocco</i>	<b>Marr Prize Winner</b> Statistical Learning Predicts On-line Language-Processing - <i>Jennifer B. Misyak, Morten H. Christiansen, J. Bruce Tomblin</i>	Is Causation Probabilistic? - <i>Caren Frosch, Phil Johnson-laird</i>
	One and Done - <i>Edward Vul, Noah D. Goodman, Thomas L. Griffiths, Joshua B. Tenenbaum</i>	British Sign Language Iconicity Effects - <i>Robin L. Thompson, David P. Vinson, Gabriella Vigliocco</i>	Gestalt principles and sequential learning - <i>Jennifer A. Sturm, Kenny Smith</i>	Deductions with a subliminal premise - <i>Carlo Reverberi, Michele Burigo, Paolo Cherubini</i>
	<b>Language Modeling Prize Winner</b> The Hidden Markov Topics Model - <i>Mark Andrews, Gabriella Vigliocco</i>	Relating neurophysiology and drift diffusion models - <i>Braden Purcell, Jeffrey Schall, Thomas Palmeri</i>	Novel Insights into Statistical Learning - <i>Ian Simpson, Joanne Arciuli</i>	Indirect Effects in Contingency Learning - <i>Daniel Sternberg, James McClelland</i>
14:00	<b>Philosophy and Bayes</b>	<b>Development and Language</b>	<b>Interaction between Vision and Language</b>	<b>Reasoning</b>
	Bayesian Pattern Logic - <i>Momme Von Sydow</i>	Lexical Competition and Aging - <i>Kathleen Pirog Revill, Daniel Spieler</i>	Visual Information in Sentence Production - <i>Moreno Coco, Frank Keller</i>	"Damned by Faint Praise" - <i>Adam Harris, Adam Corner, Ulrike Hahn</i>
	Explaining the Conjunction Fallacy - <i>Katya Tentori, Vincenzo Crupi</i>	Inhibition / Facilitation Across the Lifespan - <i>Henrike K. Blumenfeld, Scott R. Schroeder, Zahra R. Ali, Viorica Marian</i>	Categorical Features in Spatial Reorientation - <i>Daniel Gradner, Carey Pietsch, Frank Durgin</i>	Judgements of conditional probability - <i>Jiaying Zhao, Anuj Shah, Daniel Osherson</i>
	A taxonomy of inductive problems - <i>Charles Kemp, Alan Jern</i>	Learning Words from Context - <i>Vladimir Sloutsky, Xin Yao</i>	"Abstract language, global perception" - <i>Emiel Krahmer, Diederik Stapel</i>	Modifier effect in noun phrases - <i>James A. Hampton, Martin Jonsson, Alessia Passanisi</i>
15:10	<b>Rumelhart Award Lecture: The Origin of Concepts — <i>Susan Carey</i> Aula</b>			
16:20	<b>Rumelhart Reception</b>			
17:30	<b>Poster Session 1</b>			

Thursday

	04A-00	06A-00	08A-00	10A-00
<b>10:10</b>	Symposium Music Cognition: Learning and Processing <i>Martin Rohrmeier, Patrick Rebuschat, Psyche Loui, Geraint Wiggins, Marcus T. Pearce, Daniel Muellensiefen, Henkjan Honing</i>	Symposium Models and Analogies in Conceptual Restructuring <i>Dedre Gentner, Theodore Arabatzis, Nancy Nersessian, Stella Vosniadou, John Clement</i>	Symposium Rational Process Models <i>Edward Vul, Joshua B. Tenenbaum, Thomas L. Griffiths, Roger Levy, Mark Steyvers, Craig R.M. Mckenzie</i>	Symposium Cognitive and neural foundations of Concepts <i>Markus Kiefer, Lawrence Barsalou, Karalyn Patterson, Christian Gerlach</i>
<b>11:40</b>	<b>Methodology</b>		<b>Development and Representation</b>	<b>Concepts and Categories</b>
	Adaptive design optimization - <i>Daniel Cavagnaro, Yun Tang, Jay I. Myung, Mark A. Pitt</i>		Remembering Disintegrated Objects - <i>Vanessa Simmering, Jeffrey Johnson, Chelsey Patterson, John Spencer</i>	Similarity and Categorization - <i>Takashi Yamauchi</i>
	Enhancing Methodological Rigor: Complexity Analysis - <i>Jacob Beal, Jennifer Roberts</i>		Children's thoughts on unborn babies - <i>Sara E. Van es, Tessa J.p. Van schijndel, Roos Franse, Maartje E.j. Raijmakers</i>	Category generation - <i>Alan Jern, Charles Kemp</i>
	Theory of Cognitive Skill Acquisition - <i>Stellan Ohlsson</i>		The Importance of Spatial Integration - <i>Lori Gresham, Heidi Kloos</i>	Learning to learn categories - <i>Amy Perfors, Joshua Tenenbaum</i>
<b>12:50</b>	<b>Neuroscience</b>			<b>Concepts, Categories and Metacognition</b>
	<b>Perception/Action Modeling Prize Winner</b> Virtual Brain Reading - <i>Rosemary Cowell, David Huber, Garrison Cottrell</i>			Selective attention in category learning - <i>Shinwoo Kim, Bob Rehder</i>
	Gradient and Spin Echo Imaging - <i>Krishna Miyapuram, Philippe Tobler, Wolfram Schultz, Robert Osterbauer, Christian Schwarzbauer</i>			Induction with uncertain categories - <i>Christopher Papadopoulos, Brett Hayes, Ben Newell</i>
	Hyperlearning: Modeling Schizophrenic Psychosis - <i>Uli Grasemann, Risto Miikkulainen, Ralph Hoffman</i>			Meta-cognitive account of anchoring - <i>Giovanna Egidi, Uri Hasson</i>
<b>14:00</b>	<b>Individual Differences</b>	<b>Education and Representation</b>	<b>Cognitive Control</b>	<b>Concepts and Categories</b>
	Executive Functions and Language Processing - <i>Wibke Hachmann, Lars Konieczny, Daniel Müller</i>	Symmetry in Integer Representations - <i>Jessica M. Tsang, Daniel L. Schwartz</i>	Modeling Triple-Tasking without Cognitive Control - <i>Jelmer Borst, Niels Taatgen, Hedderik Van rijm</i>	Long-term Retention Requires Direct Queries - <i>Yasuaki Sakamoto, Bradley Love</i>
	Finding a Better k - <i>Joshua M. Lewis</i>	Understanding of Approximate Addition - <i>M. Claire Keultjes, Matthew H. Gibson, Nicole M. Mcneil</i>	Components of Working Memory Updating - <i>Ullrich Ecker, Stephan Lewandowsky, Klaus Oberauer</i>	Persistent Memory for Prior Operation - <i>Christopher Was</i>
	Dynamical models of individual differences - <i>Han L.j. Van der maas, Kees Jan Kan</i>	Concreteness and acquisition of proportion - <i>Jennifer Kaminski, Vladimir Sloutsky</i>	Adding Distractors Improves Performance - <i>Jon Juvina, Niels Taatgen</i>	Exemplar Fragment Model - <i>Robert Colner, Bob Rehder</i>

**9:00 Plenary: Back to the Future: Is Mental Time Travel Unique to Humans? — Nicola Clayton Aula**

	<b>Aula</b>	<b>KC-07</b>	<b>Auditorium</b>	<b>02A-00</b>
<b>10:10</b>	Rumelhart Symposium <i>Frank Keil, Elizabeth Spelke, Dedre Gentner, Fei Xu</i>	Symposium Memory in Language: Language in Memory <i>Peter Culicover, Simon Dennis, Marc Howard, Richard Lewis, Brian Mcelree</i>	Symposium The Emergence of Collective Structures through individual interactions <i>Robert Goldstone, Thomas Griffiths, Todd Gureckis, Dirk Helbing, Luc Steels</i>	
<b>11:40</b>	<b>Emotion &amp; Motivation</b>	<b>Word Reading</b>		<b>Analogy</b>
	An Adaptive Emotion Reading Model - <i>Tibor Bosse, Zulfiqar A. Memon, Jan Treur</i>	Dorsal stream in speech processing - <i>James L. Keidel, Stephen R. Welbourne, Matthew A. Lambon ralph</i>		Making probabilistic relational categories learnable - <i>Wookyoung Jung, John E. Hummel</i>
	Contextual Affective Stimulus-Response Translation - <i>Pascal Haazebroek, Saskia Van Dantzig, Bernhard Hommel</i>	Rules in reading Greek - <i>Athanasios Protopapas, Elina Nomikou</i>		Analogy-making in Children - <i>Jean-pierre Thibaut, Robert French, Milena Vezneva</i>
	Frequency and Motivational State - <i>Bram Heerebout, Hans Phaf</i>	Examining Megastudies of Word Reading - <i>Daragh Sibley, Christopher Kello, Mark Seidenberg</i>		Language Helps Children Reason Analogically - <i>Dedre Gentner, Nina Simms, Stephen Flusberg</i>
<b>12:50</b>	<b>Situated Philosophy</b>	<b>Quantifiers &amp; Abstractness</b>	<b>Sentence Processing</b>	
	Norms inform mental state ascriptions - <i>Kevin Uttich, Tania Lombrozo</i>	Understanding Quantifiers in Language - <i>Jakub Szymanik, Marcin Zajenkowski</i>	Incremental interpretation correlates with verification - <i>Pia Knoeferle, Thomas P. Urbach, Marta Kutas</i>	
	Multimodal Abduction - <i>Lorenzo Magnani</i>	Happiness is an abstract word - <i>Stavroula-thaleia Kousta, Gabriella Vigliocco, David Vinson, Mark Andrews</i>	Lcoal syntactic coherence interpretation - <i>Lars Konieczny, Daniel Müller, Wibke Hachmann, Sarah Schwarzkopf, Sascha Wolfer</i>	
	Interaction and External Representations - <i>David Kirsh</i>	Children's decisions under verbal uncertainty - <i>Amélie Gourdon, Gaëlle Villejoubert</i>	Comparing symbolic and connectionist sentence-processing models - <i>Stefan Frank</i>	
<b>14:00</b>	<b>Philosophy of AI</b>	<b>Integrating cues in language processing</b>	<b>Aspects of Dialogue</b>	<b>Decision Making</b>
	Problems with Dreyfus' Anti-Representationalism - <i>Nancy Salay</i>	Processing Pragmatic and Real-world Knowledge - <i>Klinton Bicknell, Hannah Rohde</i>	Uptalk and prolongations - <i>John Tomlinson, jr., Jean Fox tree</i>	Motivational Effects in Dynamic Environments. - <i>A. Ross Otto, Arthur Markman, Bradley Love, Todd Gureckis</i>
	Consciousness in Mathematical Cognition - <i>Robert Hadley</i>	Acquiring Multiword Verbs - <i>Afsaneh Fazly, Aida Nematzadeh, Suzanne Stevenson</i>	Distinguishing Dialogue Contexts - <i>Arash Eshghi, Patrick G. T. Healey</i>	Keeping options viable - <i>Anastasia Ejova, Daniel Navarro, Amy Perfors</i>
	Virtual Machines in Cognitive Science - <i>Aaron Sloman</i>	Learning Words with Informative Communication - <i>Michael Frank, Noah Goodman, Peter Lai, Joshua Tenenbaum</i>	Accessibility is Alive and Well - <i>Ellen Gurman Bard, Robin Hill, Manabu Arai</i>	Goal-Proximity Decision Making - <i>Vladislav D. Veksler, Wayne D. Gray, Michael J. Schoelles</i>
<b>15:10</b>	<b>Philosophy</b>	<b>Morphology</b>	<b>Interactions between speaker and listener</b>	<b>Analogy</b>
	Causal Exclusion and Consciousness - <i>George Seli</i>	On-line Sentence Comprehension in Czech - <i>Jiří Lukavský, Filip Smolík</i>	Support Structures for Linguistic Creativity - <i>Tony Veale, Yanfen Hao</i>	Transfer in algebra word problems - <i>Ricardo Adrian Minervino, Máximo Trench, Nicolás Oberholzer</i>
	Recursion and Cognitive Science - <i>David James Lobina, José Eugenio García-albea</i>	Past Tense Synthetic Brain Imaging - <i>Gert Westermann, Nicolas Ruh</i>	Situated Communicative Acts - <i>Antonella Carassa, Marco Colombetti</i>	Transformations in the same-different paradigm - <i>Carl J. Hodgetts, Ulrike Hahn, Nick Chater</i>
	Phenomenal Worlds and Nervous Systems - <i>Fred Cummins</i>	Russian Aspect in FCG - <i>Kateryna Gerasymova, Luc Steels, Remi Van trijp</i>	Language evolution in the lab - <i>Bradley Walker, Nicolas Fay, Shane Rogers, Nik Swoboda</i>	Transfer from simulated physical systems - <i>Samuel Day, Robert Goldstone</i>
<b>16:20</b>	<b>Heineken Award Lecture: Masking, conscious access, and the blind spot of introspection — Stanislas Dehaene Aula</b>			
<b>17:30</b>	<b>Poster Session 2</b>			

**Friday**

	04A-00	06A-00	08A-00	10A-00
10:10				
11:40		<b>Problem Solving</b>		<b>Concepts &amp; Categories</b>
		Insight Problem Solving - <i>Linden Ball, Alexandra Stevens</i>		Variability in belief revision - <i>Lauren Kearney, Brett Hayes</i>
		Search Strategies in Virtual Mazes - <i>Simon J. Buechner, Christoph Hölscher, Jan M. Wiener</i>		Perceptual Unitization in Part-Whole Judgments - <i>Andrew Hendrickson, Robert Goldstone</i>
		Symbolic manipulation as symbol pushing - <i>David Landy, Robert Goldstone</i>		Space and Time in the Child's Mind - <i>Daniel Casasanto, Olga Fotakopoulou, Lera Boroditsky</i>
12:50	<b>Bayes</b>	<b>Education, Problem Solving &amp; Power Laws</b>		<b>Concepts &amp; Categories</b>
	Bayesian Framework Modeling Intuitive Dynamics - <i>Adam Sanborn, Vikash Mansinghka, Thomas Griffiths</i>	Motivation and Transfer - <i>Daniel Belenky, Timothy Nokes</i>		Sequential Effects in Identification - <i>Matt Jones</i>
	Perceptual Organization of Point Constellations - <i>Matthew Dry, Daniel Navarro, Kym Preiss, Michael Lee</i>	Helping Students Know 'Further' - <i>Ido Roll, Vincent Aleven, Kenneth Koedinger</i>		Explaining Promotes Discovery - <i>Joseph Jay Williams, Tania Lombrozo</i>
	Measuring Human Causal Functions - <i>Daniel R. Little, Richard M. Shiffrin</i>	Spurious Power Laws of Learning - <i>Jaap Murre, Antonio Chessa</i>		Feedback Effects in Category Learning - <i>Darrell A. Worthy, W. Todd Maddox, Arthur B. Markman</i>
14:00	<b>Bayes</b>	<b>Skill Acquisition &amp; Education</b>	<b>Attention</b>	<b>Development &amp; Categories</b>
	Scale-Invariance of Human Latencies - <i>Fermin Moscoso del Prado Martin</i>	Computational Model on Error Learning - <i>Noboru Matsuda, Andrew Lee, William W. Cohen, Kenneth R. Koedinger</i>	Inattentive Blindness and Training - <i>Anne Richards, Emily M. Hannon, Nazanin Derakshan</i>	The influence of sample size on inductive reasoning - <i>Chris Lawson, Anna Fisher</i>
	Long term memory processes - <i>Lee Averell, Andrew Heathcote</i>	Comparing Teaching Strategies for CVS - <i>Michael Sao pedro, Janice Gobert, Neil Heffernan, Joseph Beck</i>	Eye movements and memory rehearsal - <i>Gregory Zelinsky, Lester Loschky</i>	Perceptual Vs. Conceptual Information - <i>Anna Fisher</i>
	What are you trying to tell me? - <i>Hyowon Gweon, Joshua B. Tenenbaum, Laura E. Schulz</i>	Adding Self-Explanation Prompts to an English Grammar Tutor - <i>Ruth Wylie, Kenneth Koedinger, Teruko Mitamura</i>	The performance implications of memory-induced attention shifts - <i>Ivan Vankov</i>	Number and Size: Discrete and continuous entities - <i>Lisa Cantrell, Linda Smith</i>
15:10	<b>Bayes</b>	<b>Education</b>	<b>Attention</b>	<b>Embodied Representations</b>
	Nonparametric Modeling of Individual Differences - <i>Mathew Zeigenfuse, Michael Lee</i>	Towards explaining effective tutorial dialogues - <i>Barbara Di eugenio, Davide Fossati, Stellan Ohlsson, David Cosejo</i>	Orienting attention without consciousness - <i>Maria Casagrande, Stefania Mereu, Diana Martella, Andrea Marotta, Barbara Marino</i>	Motor Affordances in Mental Rotation - <i>Stephen Flusberg, Gavin Jenkins, Lera Boroditsky</i>
	Discourse Provides Information for Word Learning - <i>Michael Frank, Noah Goodman, Joshua Tenenbaum, Anne Fernald</i>	Interactive Word Production - <i>Susan Webb, Frederic Vallee-Tourangeau</i>	Computational Model of Selective Attention - <i>Kleanthis Neokleous, Maria Koushiou, Marios Avraamides, Christos Schizas</i>	Multimodal Embodied Conversational Agents - <i>Max Louwerse, Nick Benesh, Shinobu Watanabe, Bin Zhang, Patrick Jeuniaux, Divya Vargheese</i>
	Sequential structure and motor control - <i>Anna Ma-wyatt, Daniel Navarro</i>		Unconscious Processing - <i>Eva Van den bussche, Bert Reynvoet</i>	Conceptual representation of bimodal properties - <i>Louise Connell, Dermot Lynott</i>

7:45 Business meeting — Aula

9:00 Plenary: How to grow a mind: Statistics, structure and abstraction — *Joshua Tenenbaum* Aula

	Aula	KC-07	Auditorium	02A-00
10:10	Symposium How an embodied mind perspective can influence the study of emotion <i>Joshua Davis, Christian Keysers, Fritz Strack, Jamil Zaki</i>	Symposium Cultural Evolution of Language: implications for Cognitive Science <i>Morten H. Christiansen, Nick Chater, Thomas L. Griffiths, Simon Kirby</i>	Symposium The Cognitive Science of Bilingualism <i>Janet Van Hell, Ping Li</i>	Symposium Mathematical Cognition and its cultural dimension <i>Andrea Bender, Sieghard Beller, Marc Brysbaert, Stanislas Dehaene, Heike Wiese</i>
11:40	<b>Anthropology</b>	<b>Word and Gender Learning</b>		<b>Decision Making</b>
	Cultural Ratchet through Iterated Learning - <i>Aaron Beppu, Tom Griffiths</i>	Word Learning in Dense Corpora - <i>Brandon Roy, Michael Frank, Deb Roy</i>		Cultural differences in hindsight bias - <i>Hiroshi Yama, Ken Manktelow, Hugo Mercier, Jean-Baptiste Van der Henst, Kyung Soo Do, Yayoi Kawasaki, Kuniko Adachi</i>
	Eaters in the Dark - <i>Benjamin Scheibehenne, Peter Todd, Brian Wansink</i>	Order-of-acquisition affects what gets learned - <i>Inbal Arnon, Michael Ramscar</i>		Decision System Adaptation - <i>Blair Armstrong, Steve Joordens, David Plaut</i>
	Why Is Ethnocentrism Common? - <i>Thomas Shultz, Max Hartshorn, Artem Kaznatcheev</i>	Contextual Diversity in Early Word Learning - <i>Thomas Hills, Josita Mao-vene, Brian Riordan, Linda Smith</i>		Comparison and Distortion of Probability - <i>Amber Bloomfield, Jessica Choplin</i>
12:50		<b>Word and Category Learning</b>	<b>Cross-situational Learning</b>	<b>Decision Making</b>
		Neural basis of Conceptual Semantics - <i>Drazen Domijan, Mia Setic</i>	Word Learning Respects Mutual Exclusivity - <i>Denise Ichnio, Michael C. Frank, Rebecca Saxe</i>	Do Voters Use Episodic Knowledge to Rely on Recognition? - <i>Julian Marewski, Wolfgang Gaissmaier, Lael Schooler, Daniel Goldstein, Gerd Gigerenzer</i>
		Word learning at 10 months - <i>Emily Mather, Kim Plunkett</i>	Frequency & Contextual Diversity in Word Learning - <i>George Kachergis, Chen Yu, Richard Shiffrin</i>	Pieron's Law in Response Conflict - <i>Tom Stafford, Kevin Gurney, Leanne Ingram</i>
		Learning Phonetic Categories and Words - <i>Naomi Feldman, Thomas Griffiths, James Morgan</i>	word-object learning from grammatical categories - <i>Padraic Monaghan, Karen Mattock</i>	Influencing choice through gaze - <i>Daniel Richardson, Michael Spivey, Merrit Hoover</i>
14:00	<b>Philosophy and Situated Cognition</b>	<b>Computational Models of Language Learning</b>	<b>Inferences from Language</b>	<b>Decision Making</b>
	The Varieties of Dynamicism - <i>Carlos Zednik</i>	Two Types of Vocabulary Growth - <i>Shohei Hidaka</i>	Lies Lies and More Lies - <i>Joanne Arciuli, Gina Villar, David Mallard</i>	Comparing Risk Reductions. - <i>Adrien Barton, Edward T. Cokely, Mirta Galesic, Anna Koehler, Mario Haas</i>
	Abstract Words and Social Dimension - <i>Anna M. Borghi, Felice Cimatti</i>	Frequency Trajectory or AoA - <i>Martial Mermillod, Patrick Bonin, Tiffany Morisseau, Alain Méot, Ludovic Ferrand</i>	The Coordination of Ironic Statements - <i>Jennifer Roche, Rick Dale, Gina Caucci</i>	Familiarity-based inference - <i>Hidehito Honda, Toshihiko Matsuka</i>
	"Projection, Problem Space and Anchors" - <i>David Kirsh</i>	Empiricist Solutions to Nativist Puzzles - <i>Rens Bod, Gideon Borensztajn, Emily Morgan</i>	How is Sociolinguistic Knowledge Represented? - <i>Laura Staum casasanto</i>	Difference between Surprise and Probability - <i>Phil Maguire, Rebecca Maguire</i>

Saturday

	04A-00	06A-00	08A-00	10A-00
10:10	Symposium The cognitive science of religion <i>Cristine Legare, Andrew Shtulman, Jesse Bering, Harvey Whitehouse</i>	Symposium Relational and Role-Governed Categories <i>Micah Goldwater, Noah Goodman, Stephen Wechsler, Gregory Murphy</i>	Symposium Scaling Laws in Cognitive Science <i>Christopher Kello, Gordon Brown, Ramon Ferrer i Cancho, John Holden, Klaus Linkenkaer-Hansen, Theo Rhodes, Guy Van Orden</i>	Symposium Visual Reasoning in Modeling and Design <i>Ashok Goel, Peter Cheng, John Clement, Fehmi Dogan, Mary Hegarty, Nancy Nersessian</i>
11:40	<b>ERP</b>	<b>Human-Computer Interaction</b>	<b>Reasoning</b>	
	Conceptual Integration in Arithmetic - <i>Kristie Fisher, Miriam Bassok, Lee Osterhout</i>	Evaluation processes regarding search results - <i>Yvonne Kammerer, Evelin Wollny, Peter Gerjets, Katharina Scheiter</i>	Rational Model Elemental Diagnostic Inference - <i>Björn Meder, Ralf Mayrhofer, Michael R. Waldmann</i>	Symposium Visual Analytics <i>Brian Fisher, Joseph Kielman, W. Bradley Paley, Markus Rester</i>
	Basal Ganglia in decision-making - <i>Claudio Lucchiari, Manuela Fumagalli, Sara Marceglia, Simona Makic-sposta, Domenico Servello, Sergio Barbieri, Alberto Priori, Gabriella Pravettoni</i>	<b>Cognition and Student Learning Prize Winner</b> Assessing Cognitively Complex Strategy Use - <i>G. Tanner Jackson, Rebekah H. Guess, Danielle S. McNamara</i>	Shared Cognitive Structures and Entrepreneurs - <i>Daniela Blettner</i>	
	All or none in ST2 - <i>Howard Bowman, Patrick Craston, Srivas Chennu, Brad Wyble</i>	Cognitive mechanisms of procedural error - <i>Maartje Ament, Ann Blandford, Anna Cox</i>	Learning a Theory of Causality - <i>Noah Goodman, Tomer Ullman, Joshua Tenenbaum</i>	
12:50	<b>Pitch and Vocal signals across Cultures and Species</b>	<b>Human-Computer Interaction</b>		<b>Spatial Cognition</b>
	Absolute pitch affects online recognition - <i>Sarah Creel, Melanie Tumlin</i>	ITM: computational modelling of ATC - <i>Charles Pompanon, Eric Raufaste</i>		Dissociating Ideomotor and Spatial Compatibility - <i>Ty W. Boyer, Mathias Scheutz, Bennett I. Bertenthal</i>
	Universal vocal signals of emotion - <i>Disa Sauter, Frank Eisner, Paul Ekman, Sophie K Scott</i>	Proactivity in interruption handling - <i>Boris Velichkovsky</i>		Visual Attention and Spatial Decision Making - <i>Jan Wiener, Christoph Hölscher, Simon Büchner, Lars Konieczny</i>
	Ethnicity Effects in Relative Pitch - <i>Michael Hove, Mary Elizabeth Sutherland, Carol Krumhansl</i>	<b>Applied Modeling Prize Winner</b> Predicting Postcompletion Errors - <i>Raj Ratwani, Greg Trafton</i>		Modeling Task Effort in Graphics - <i>Richard Burns, Stephanie Elzer, Sandra Carberry</i>
14:00	<b>Ecological Cognition</b>		<b>Memory</b>	<b>Spatial Cognition</b>
	Testing Sequential Human Mate Search - <i>Nicole Beckage, Peter Todd, Lars Penke, Jens Asendorpf</i>		Short-Term Activation Inhibition - <i>Christian Lebiere, Bradley Best</i>	Children's Understanding of Ruler Measurement - <i>Susan C. Levine, Mee-kyoung Kwon, Janellen Huttenlocher, Kristin Ratliff, Kevin Deitz</i>
	Group Foraging and Resource Competition - <i>Michael Roberts, Robert Goldstone</i>		Forgetting in STM/WM - <i>Stephan Lewandowsky, Klaus Oberauer</i>	Spatial categories are near-optimal - <i>Naveen Khetarpal, Asifa Majid, Terry Regier</i>
	Decision Making in Mate Choice - <i>Peter Todd, Skyler Place</i>		The Inverse List Length Effect - <i>Simon Dennis, Allison Chapman</i>	Spatial Organization of Magnitude - <i>Kevin J. Holmes, Stella F. Lourenco</i>

	<b>Aula</b>	<b>KC-07</b>	<b>Auditorium</b>	<b>02A-00</b>
<b>15:10</b>	<b>Animal Cognition</b>	<b>Concepts &amp; Categories in Language</b>	<b>Learning Language</b>	<b>Decision Making</b>
	Memory in Primate Game Play - <i>Michael Coen, Vandhana Selvapragash, Angela Dassow, Shelley Prudom, Ricki Colman, Joseph Kemnitz</i>	Eye-witness memory English and Japanese - <i>Caitlin Fausey, Bria Long, Lera Boroditsky</i>	Implicit Acquisition of Recursive Sequences - <i>Julia Uddén, Susana Araujo, Chrisitan Forkstam, Martin Ingvar, Peter Hagoort, Karl Magnus Petersson</i>	Memory-judgment relationships - <i>Silvio Aldrovandi, Marie Poirier, Daniel Heussen, Peter Ayton</i>
	Numerical competence in basal vertebrates - <i>Christian Agrillo, Marco Dadda, Giovanna Serena, Laura Piffer, Angelo Bisazza</i>	Conceptual combination and extension - <i>Wouter Voorspoels, Wolf Vanpaemel, Gert Storms</i>	Semantics for Action - <i>Michiel Van Elk</i>	Explanation in Very Simple Tasks - <i>Eric Taylor, David Landy, Brian Ross</i>
	Modeling Corvid Cache Site Choice - <i>Elske Van der Vaart, Charlotte Hemelrijk, Rineke Verbrugge</i>	Abstract Categories' Graded Structure - <i>Loes Stukken, Steven Verheyen, Matthew Dry, Gert Storms</i>	Convergence of Iterated Learning of Language - <i>Anna Rafferty, Thomas Griffiths, Dan Klein</i>	Modeling sequential information integration - <i>Katja Mehlhorn, Georg Jahn</i>
<b>16:20</b>	<b>Robotics</b>	<b>Category Acquisition</b>	<b>Cross-Linguistic Analysis</b>	<b>Higher Level Cognition</b>
	SIT/STAND/LIE Semantics Embodied in Robots - <i>Michael Spranger, Martin Loetzsch</i>	Distributional Information in Category Formation - <i>Patricia Reeder, Elissa Newport, Richard Aslin</i>	The Communicative Lexicon Hypothesis - <i>Steven Piantadosi, Harry Tily, Edward Gibson</i>	Multi-Layered Model of Self - <i>Motoaki Sugiura</i>
	<b>Higher-Level Cognition Modeling Prize Winner</b> Intention-based Robot Control - <i>Christopher Crick, Brian Scassellati</i>	What Infants Want to Count - <i>Jon Willits, Mark Seidenberg, Jenny Saffran</i>	L1 Effects on L2 Learning - <i>Thomas Farmer, Ran Liu, Neha Metha, Jason Zevin</i>	Where Do Rewards Come From? - <i>Satinder Singh, Richard Lewis, Andrew Barto</i>
	Speech motor planning and control - <i>Michael Brady</i>	Evaluating Categories without Gold Standard - <i>Stella Frank, Sharon Goldwater, Frank Keller</i>	Cross-Linguistic Relative Clause Production - <i>Jessica Montag, Maryellen Macdonald</i>	Collapsing Content and Process - <i>Gary Lupyan, Dwight Kravitz</i>
<b>17:30</b>	<b>Poster Session 3</b>			



	<b>04A-00</b>	<b>06A-00</b>	<b>08A-00</b>	<b>10A-00</b>
<b>15:10</b>	<b>Neuroscience &amp; Biology</b>	<b>Scientific and Causal Knowledge</b>	<b>Memory</b>	<b>Perception</b>
	Route switching in imitation - <i>Alessia Tessari, Lucia Cretella, Raffaella Ida Rumiati</i>	Learning from Actions and their Consequences - <i>Daphna Buchsbaum, Thomas Griffiths, Alison Gopnik, Dare Baldwin</i>	Simulating false recall - <i>Brendan Johns, Michael Jones</i>	Recognizing scenes with objects - <i>Michael Mack, Thomas Palmeri</i>
	Feature integration in musical sequences - <i>Michelle P. S. To, Tom Troscianko, David J. Tolhurst</i>	Using Sketching to Evaluate Knowledge - <i>Benjamin Jee, Dedre Gentner, Kenneth Forbus, Bradley Sageman, David Uttal</i>	Spaced Learning and Lexical Integration - <i>Shane Lindsay, M. Gareth Gaskell</i>	Semantic guidance of real-world scene inspection - <i>Alex Hwang, Hsueh-cheng Wang, Marc Pomplun</i>
	Evolutionary Relationship and Biological Inference - <i>Laura Novick, Kefyn Catley</i>	Learning Physics Models & Misconceptions - <i>Scott Friedman, Kenneth Forbus</i>	Testing the Encoding-Retrieval Match - <i>Sharon Lu, Winston Goh</i>	Neural Correlates of Configural Learning - <i>Leslie Blaha, Thomas Busey, James Townsend</i>
<b>16:20</b>	<b>Metacognition</b>	<b>Education &amp; Problem Solving</b>	<b>Memory</b>	<b>Perception</b>
	Causal Explanations in Counterfactual Reasoning - <i>Morteza Dehghani, Rumien Iliev, Stefan Kaufmann</i>	The Design of Self-explanation Prompts - <i>Robert Hausmann, Timothy Nokes, Kurt Vanlehn, Sophia Gershman</i>	Temporal order and eyewitness retrieval - <i>Coral Dando, Thomas Ormerod</i>	Gender aftereffects in face silhouettes - <i>Nicolas Davidenko, Nathan Witthoft, Jonathan Winawer</i>
	Goal revelation in Negotiation - <i>Ya'akov Gal, Sohan D'souza, Philippe Pasquier, Iyad Rahwan, Sherief Abdallah</i>	Productive Failure - <i>Manu Kapur, June Lee</i>	Memory for Highly Familiar Environments - <i>Julia Frankenstein, Tobias Meilinger, Betty J. Mohler, Heinrich H. Bülthoff</i>	Color Preference: Ecological Valence Theory - <i>Karen B. Schloss, Stephen E. Palmer</i>
	Metacognitive Networks and Measures of Consciousness - <i>Antoine Pasquali, Bert Timmermans, Axel Cleeremans</i>	Does Adaptation Guarantee Learning Success? - <i>Stephanie Pieschl, Rainer Bromme, Torsten Porsch, Elmar Stahl</i>	Event Segmentation Drives Memory Updating - <i>Jeffrey M. Zacks</i>	Bistable audition model - <i>Michael Lee, Assal Habibi</i>

# Thursday Poster Session

Thursday

1	Enhancing Methodological Rigor for Computational Cognitive Science: Core Tenets and Ad Hoc Residuals	Jennifer Roberts, Jacob Beal
2	An EEG/ERP study of efficient versus inefficient visual search	Steven Phillips, Yuji Takeda
3	Belief Propagation and Locally Bayesian Learning	Adam Sanborn, Ricardo Silva
4	Learning and failing to learn in immediate memory	Philip Beaman, Jan Roeyer
5	Mechanisms underlying incubation in problem-solving: Evidence for unconscious cue assimilation	Ut Na Sio, Thomas Ormerod
6	Causal Asymmetry in Inductive Judgments	Philip Fernbach, Adam Darlow
7	Good Enough Language Processing: A Satisficing Approach	Fernanda Ferreira, Paul E. Engelhardt, Manon W. Jones
8	Learning Time-Varying Categories	Daniel Navarro, Amy Perfors
9	Implicit Learning of Word Order	Patrick Rebuschat, John Williams
10	The effect of robot gaze on processing robot utterances	Maria Staudte, Matthew W. Crocker
11	A mathematical insight into the size of infant vocabularies	Julien Mayor, Kim Plunkett
12	Generics, prevalence, and default inferences	Sangeet Khemlani, Sarah-Jane Leslie, Sam Glucksberg
13	Within-subject Preference Reversals in Description- and Experience-based Choice	Adrian R. Camilleri, Ben Newell
14	Arbitrary Imitation, Pattern Completion and the Origin and Evolution of Human Communication	Monica Tamariz
15	A Single Layer Network Model of Sentential Recursive Patterns	Lei Ding, Simon Dennis, Dennis Mehay
16	Finding Your Way in Chronoland: Visual Metaphors for Orientation of Temporal Data Explorers	Michael Smuc, Eva Mayr, Hanna Risku, Florian Windhager
17	Learning to adapt evidence thresholds in decision making	Ben Newell, Michael Lee
18	Conceptual and linguistic distinctions between singular and plural generics	Sarah-Jane Leslie, Sangeet Khemlani, Sandeep Prasada, Sam Glucksberg
19	Error and expectation in language learning: An inquiry into the many curious incidents of "mouses" in adult speech	Michael Ramscar, Melody Dye
20	Semantic Context Effects on Color Categorization	Rony Kubat, Daniel Mirman, Deb Roy
21	Words and meaning: How the lexical encoding of technical concepts contributes to their mental representation	Elisabeth Paus, Regina Jucks
22	The Influence of Attention on the Detection of the List Length Effect in Recognition Memory	Angela Kinnell, Simon Dennis

23	A PDP Simulation of the Effects of Transcranial Magnetic Stimulation on Semantic Cognition	Mark Drakesmith, Gorana Pobric, Stephen Welbourne
24	Comparing MOSAIC and the Variational Learning Model of the Optional Infinitive Stage in Early Child Language	Daniel Freudenthal, Julian Pine, Fernand Gobet
25	Subitizing, Finger Gnosis, and the Representation of Number	Marcie Penner-Wilger, Lisa Fast, Jo-Anne LeFevre, Brenda Smith-Chant, Sheri-Lynn Skwarchuk, Deepthi Kamawar, Jeffrey Bisanz
26	Prior experience and communication media in establishing common ground during collaboration	Yugo Hayashi, Kazuhisa Miwa
27	How strong emotions influence reasoning: effects of spider phobia on a conditional inference task	Christina Wranke, Luzie Jung, Kai Hamburger
28	A functional brain imaging study on the neural correlates of altruism in social decision-making	Markus Knauff, Thomas Fangmeier, Markus Raabe, Mark Greenlee
29	What is Special about Children's Deontic Reasoning?	Monica Bucciarelli
30	Severe Outcomes and their Influence on Judgments of Causation	Clare Walsh, Ulrike Hahn, Lisa DeGregerio
31	Statistical Word Learning and Object Categorization: A Cross-Linguistic Study in English and Mandarin	Chi-hsin Chen, Chen Yu, Chih-Yi Wu, Hintat Cheung
32	Applying Cognitive Architectures to Decision-Making: How Cognitive Theory and the Equivalence Measure Triumphed in the Technion Prediction Tournament	Terrence Stewart, Robert West, Christian Lebiere
33	Comparison, Categorization, and Metaphor Comprehension	Bahriye Selin Gokcesu
34	Re-Categorization: Restructuring In-Categorization	David Cosejo, Justin Oesterreich, Stellan Ohlsson
35	Shape constancy, not size constancy: A (partial) explanation for the Müller-Lyer illusion	Bence Nanay
36	Action, Detection, and Perception: A Computational Model of the Relation Between Movement and Orientation Selectivity in the Cerebral Cortex	Anthony Morse, Tom Ziemke
37	Co-speech gestures do not originate from speech production processes: Evidence from the relationship between co-thought and co-speech gestures	Mingyuan Chu, Sotaro Kita
38	Convergence and Divergence in Representational Systems: Emergent Place Learning and Language in Toddlers	Frances Balcomb, Nora Newcombe, Katrina Ferrara
39	Creativity Evaluation through Latent Semantic Analysis	Eve Forster, Kevin Dunbar
40	Examining Sources of Individual Variation in Sustained Attention	Glenn Gunzelmann, L. Richard Moore, Jr., Kevin A. Gluck, Hans P. A. Van Dongen, David F. Dinges
41	Generic Abstraction in Design Creativity	Fehmi Dogan, Nancy Nersessian

42	Optimal Foraging in Semantic Memory	Thomas Hills, Peter Todd, Mike Jones	65	Bugs and Biases: Diagnosing Misconceptions in the Understanding of Diagrams	James E. Corter, Yun Jin Rho, Doris Zahner, Jeffrey Nickerson, Barbara Tversky
43	Japanese sound symbolism facilitates verb learning in English speaking children	Katerina Kantartzis, Sotaro Kita, Mutsumi Imai	66	Hard to put your finger on it: Haptic modality disadvantage in conceptual processing	Louise Connell, Dermot Lynott
44	Imagery as Compensation for an Imperfect Abstract Problem Representation	Samuel Wintermute, John E. Laird	67	Investment Decision-Making and Hindsight Bias	Marco Monti, Paolo Legrenzi
45	Culture in the Mirror of Language: A Latent Semantic Analysis Approach to Culture	Eyal Sagi, Stefan Kaufmann, Brady Clark	68	Alerting, Orienting and Executive Control: The effects of sleep deprivation	Diana Martella, Maria Casagrande, Andrea Marotta, Mara Sebastiani, Lisa Maccari
46	Increased Practice with "Set" Problems Hinders Performance on the Water Jar Task	Noelle M. Crooks, Nicole M. McNeil	69	Predicting when words may appear: A Connectionist Model of Sentence Processing	Simon Dennis, Dennis Mehay, Srikar Yekollu
47	Process of explanation and representation in a counterintuitive problem of probabilities	Jordi Maj	70	The Interactional Geometry of a Three-way Conversation	Patrick G.T. Healey, Stuart A. Battersby
48	Unconscious Analogical Mapping?	Penka Hristova	71	An ART Neural Network Model of Discrimination Shift Learning	Maartje Raijmakers, Emily Coffey, Claire Stevenson, Jasper Winkel, Arjan Berkeljon
49	Experimental Examination of Feature Emergence in Metaphor Understanding with Consideration for Individual Differences	Asuka Terai, Masanori Nakagawa	72	Compatibility of Motion Facilitates Visuomotor Synchronization	Michael Hove, Michael Spivey, Carol Krumhansl
50	Is the scope of phonological planning constrained by the syntactical role of the utterance constituents?	Nicolas Dumay, Markus F. Damian, Hans Stadthagen-Gonzalez, Miguel A. Perez	73	A Transitivity Heuristic of Probabilistic Causal Reasoning	Momme von Sydow, Björn Meder, York Hagmayer
51	The Effect of Objecthood on Processing Efficiency	Luiza Shahbazyan, Boicho Kokinov	74	When a bad metaphor may not be a victimless crime: The role of metaphor in social policy	Paul Thibodeau, James McClelland, Lera Boroditsky
52	Individual Variation in Students' Mind-body Ontologies, An Exploratory Study	Otto Lappi, Anna-Mari Rusanen, Tero Hakala	75	Similarity and Structural Priming	Neal Snider
53	State-Trace Analysis of the Face Inversion Effect	Melissa Prince, Andrew Heathcote	76	SARL: A Computational Reinforcement Learning Model with Selective Attention	Maurice Grinberg, Evgenia Hristova
54	Causal Schema-based Inductive Reasoning	Oren Griffiths, Ralf Mayrhofer, Jonas Nagel, Michael R. Waldmann	77	Connectionist Modeling of Situated Language Processing: Language and Meaning Acquisition from an Embodiment Perspective	Helmut Weldle, Lars Konieczny, Daniel Müller, Sascha Wolfer, Peter Baumann
55	Iterated learning in populations of Bayesian agents	Kenny Smith	78	Preventative Scope in Causation	Christopher Carroll, Patricia Cheng
56	Extending Trust: Coupled Systems, Trust and the Extended Mind.	Neal Leblanc	79	A First-Person Perspective on a Parent-Child Social Interaction During Object Play	Alfredo F. Pereira, Chen Yu, Linda Smith, Hongwei Shen
57	Modelling the Category-Order Effect with an Oscillator-Based Connectionist Network	Jordan Schoenherr, Robert Thomson	80	Talker information is not normalized in fluent speech: Evidence from on-line processing of spoken words	Sarah Creel, Melanie Tumlin
58	Active vs Passive Training for Educational Software	Ruth Wylie, Benjamin Shih	81	Evidence for Efficient Language Production in Chinese	Ting Qian, T. Florian Jaeger
59	Interaction of Taxonomic and Contextual Knowledge in Categorization of Cross-Classified Instances	Nadya Vasilyeva, John Coley, Tara Muratore	82	Grammar-based object representations in a scene parsing task.	Virginia Savova, Frank Jaekel, Joshua Tenenbaum
60	A Cognitive Model of Discovering Commutativity	Markus Guhe, Alison Pease, Alan Smaill	83	Modeling Cued Recall and Memory Illusions as a Result of Structure Mapping	Georgi Petkov, Boicho Kokinov
61	Expertise Effects on Immediate, Deliberate and Unconscious Thought in Complex Decision Making	Margje van de Wiel, Henny Boshuizen, Eva Meeuwesen, Reinout Wiers	84	Abstract knowledge guides search and prediction in novel situations	Russell E. Warner, Patrick Shafto, Chris Baker, Joshua Tenenbaum
62	Gaze and arrow induce different effects on attentional orienting as a function of target context	Andrea Marotta, Maria Casagrande, Antonino Raffone, Diana Martella, Mara Sebastiani, Lisa Maccari	85	Body-specific representations of action verbs: Evidence from fMRI in right- and left-handers	Daniel Casasanto, Roel Willem, Peter Hagoort
63	Can Actions Represent Relations?	Milena Mutafchieva, Boicho Kokinov	86	What is the cause of left hemisphere lateralization of English visual word recognition? Pre-existing language lateralization, or task characteristics?	Janet Hsiao, Gary Cottrell
64	Fatigue of Cognitive Control in the Stroop-Task	Wolfgang Rauch, Kathrin Schmitt			

87	Language Differences in Bilingual Parent Number Speech to Preschool-Aged Children	Alicia Chang, Catherine Sandhofer	109	The distance effect of head-complement dependency in sentence acceptability	Kei Takahashi, Satoru Yokoyama, Toshimune Kambara, Kei Yoshimoto, Ryuta Kawashima
88	Predictive Arm Placement in the Statistical Learning of Position Sequences	Nicholas Duran, Rick Dale	110	The role of worked-examples in schema acquisition: Implications and preliminary findings	Siti Soraya Abdul Rahman, Benedict du Boulay
89	Implicit Learning Deficits in Autism: A Neurocomputational Account	Trent Kriete, David Noelle	111	Thinking for action: The role of obligatory and prohibitory traffic sign information in driving performance	Javier Roca, Mercedes Bueno, Sergio Moreno-Ríos, Cándida Castro
90	Extraordinary Natural Ability: Anagram Solution as an Extension of Normal Reading Ability	Jonathan Henin, Emma Accorsi, Pyeong Whan Cho, Whitney Tabor	112	Decision making strategies and preferences for intuition and deliberation	Dustin Calvillo
91	A Biologically-Plausible Cognitive Model (BPCM) of Positive and Negative Congruency Effects in Masked Priming	Ahmad Sohrabi, Robert West	113	To be or to become: An evolutionary model of learning and development	Willem E. Frankenhuys, Karthik Panchanathan
92	So many options: The roles of neural inhibition and abstract representations in selection	Hannah Snyder, Natalie Hutchison, Erika Nyhus, Tim Curran, Yuko Munakata	114	Contribution of the Bilateral Middle Temporal Gyri to the Processing of Lexical Categories	Toshimune Kambara, Satoru Yokoyama, Kei Tahahashi, Naoki Miura, Tadao Miyamoto, Daiko Takahashi, Shigeru Sato, Ryuta Kawashima
93	Unconsciously deciphering your doctor's handwriting: Subliminal invariance for handwritten words in the visual word form area	Emilie Qiao, Fabien Vinckier, Marcin Szwed, Lionel Naccache, Romain Valabregue, Stanislas Dehaene, Laurent Cohen	115	How can Euler diagrams improve syllogistic reasoning?	Yuri Sato, Koji Mineshima, Ryo Takemura, Mitsuhiro Okada
94	Causal Parsimony in Learning Science	Hima Khamar, Michelle Ellefson, Christian Schunn	116	Virtual characters can have plausible episodic and spatial memory	Cyril Brom, Jifí Lukavský
95	My hands cant move like that: Mental rotation of body parts in cerebral palsy subjects	Isabel Catarina Martins, Armando Mónica de Oliveira, Michel-Ange Amorim	117	How Tacit Knowledge guides Action	Ya'akov Gal, Whitman Richards, Rajesh Kasturirangan, Avi Pfeffer
96	The Efficiency of Visual Artwork: Relating Cognitive and Perceptual Processing to Nonlinear Image Statistics	Daniel Graham, Jay Friedenberg, Daniel Rockmore	118	Dual-Task Strategy Adaptation: How Task Structure is Actively Reconfigured for Improved Performance	Christian P. Janssen, Duncan P. Brumby
97	Computational and Neural Mechanisms for Visual Suppression	Charles Q. Wu	119	Eye-tracking studies of animate vs. inanimate objects: task driven animacy effects	Vanja Kovic, Kim Plunkett, Gert Westermann
98	On the falsifiability of prototype and exemplar models.	Wolf Vanpaemel	120	Implicit vs. Explicit learning of the German Noun Plural	Vanja Kovic, Gert Westermann, Kim Plunkett
99	Electrophysiological evidence of the semantic and the number of characters encoding in Chinese production	Yi-Shiuan Chiu, On I Lou	121	Learning a Song : an ACT-R Model	Belkacem Chikhaoui, Hélène Pigot, Mathieu Beaudoin, Guillaume Pratte, Philippe Bellefeuille, Fernando Laudares
100	Divergent developmental trends in semantic false memories for lists and stories	Ellen Swannell, Stephen Dewhurst	122	Human and Optimal Exploration and Exploitation in Bandit Problems	Shunan Zhang, Michael Lee, Miles Munro
101	Saccadic eye movements as a measure of perceptual decision-making	Eugene McSorley, Rachel McCloy, Alice Cruickshank, Laura Inman	123	Categorization system of language speakers by utilizing fMRI data during language comprehension	Satoru Yokoyama, Kei Takahashi, Kei Yoshimoto, Ryuta Kawashima
102	Reducing false memory by using domain-specific knowledge	Michael C. W. Yip	124	Promoting students' ability to draw collaborative inferences from distributed information in group problem-solving: a training experiment	Anne Meier, Hans Spada
103	Role of Philosophy and Qualitative Education as a Fact of the Capable of Removing Social Tension on a World Scale	Victoria Pavlenko	125	Exploring worked examples in tutored problem solving	Ron Salden, Vincent Aleven, Rolf Schwonke, Alexander Renkl
104	Happier Faces Shift Attention Rightward: The Cognitive Consequences of Magnitude Processing	Kevin J. Holmes, Stella F. Lourenco	126	Crowding in the Mental Image: Evidence for a Vision-Like Representation?	Don Lyon
105	The Effects of Bilingualism on Context Sensitivity	Viridiana Benitez, Linda Smith	127	Facial Perception as a Configural Process	Devin Burns, Lei Pei, Joseph Houpt, James Townsend
106	Semantic-level multimodal integration of video and speech data streams	Olga Vybornova, Hildeberto Mendona, Benoit Macq	128	Dynamics of speech sound categorization for continua defined by spectral vs. duration contrast	Ran Liu, Jason Zevin
107	Disjunctions with Moving Targets	Magda Dumitru			
108	Spatial Representations of Number and Size	Justin W. Bonny, Stella F. Lourenco			

129	Cost of Information Acquisition and Evolving Strategies	Bella Z. Veksler, Wayne D. Gray, Michael J. Schoelles	151	Cool Cognition: Who classifies cool; the Individual or the Group?	Ramsey Raafat, Nick Chater, Chris Frith
130	Exploring GPA as a Tool in Measuring Pauses of Writer's Language Competency	Putri Afzan Maria Zulkifli, Peter Cheng	152	The Sound Fits the Size- Graded Sound Symbolism for Magnitude	Patrick Thompson, Zachary Estes
131	Different brain activity during non-speech sound processing between good and poor L2 learners of pronunciation: an fMRI study	Kaori Hoshi, Satoru Yokoyama, Hiroshi Hashizume, Hyeonjeong Jeong, Kei Takahashi, Toshimune Kambara, Takeshi Ogawa, Ryuta Kawashima	153	Re-examining the status of Logic in the Psychology of Reasoning	Marian Counihan
132	Autonomous Systems Interaction Design (ASID) based on NDHB-Model/RT	Muneo Kitajima, Makoto Toyota	154	Toward a new benchmark for models of human category learning	Kenneth Kurtz, Kimery Levering
133	Dynamics of consciousness-emotion interaction: an explanation by NDHB-Model/RT	Makoto Toyota, Muneo Kitajima	155	The Difference between the Effects of Frequency and Amount of Punishment in Decision Making among Iranians	Hamed Ekhtiari, Arian Behzadi, Morteza Dehghani, Ali Jannati, Azarakhsh Mokri
134	Omission bias and intention in Japanese people	Hajimu Hayashi	156	Perceptual learning of distorted speech with and without feedback	Sara Guediche, Julie Fiez, Lori Holt
135	Models of similarity in intertemporal choice	Jeffrey Stevens	157	Language-specific Buffers in Bilingual Working Memory	Priscilla L.-P. Tu, Jose Tabares, Denise Wu, Daisy L. Hung, Ovid Tzeng, Mary Louise Kean
136	Retrieving episodic memories when recognizing familiar faces and names.	Catherine Barsics, Serge Brédart	158	Speeded induction under uncertainty: influence of multiple categories and feature co-occurrence	Helen Paton, Ben Newell, Brett Hayes
137	Effects of Incongruity between Prior Knowledge and New Information on the Acquisition of Knowledge	Johannes Moskaliuk, Joachim Kimmerle, Ulrike Cress	159	A neural network model of lexical segmentation and recognition	Shogo Makioka
138	Structure and Strength in Simple Causal Learning Task	Motoyuki Saito, Tsuneo Shimazaki	160	Motivation effect of instructional manuals	Hideaki Shimada
139	The Role of Metacognition in the Composing Processes of 8th Graders Who Are Gifted and 8th Graders with Learning Disabilities	Delayne Connor	161	Automated Use of Syntactic Structures to Access Semantic Relationships	Arman Tajarobi
140	Is the Typicality Effect in Category-based Induction Really About Typicality?	Jonathan Rein, Arthur Markman, Micah Goldwater	162	An Extension of Elman Network and A Generalized Simple Recurrent Network	Shin-ichi Asakawa
141	7 month-old infants use chunking to increase working memory capacity	Arin S. Tuerk, Mariko Yamaguchi, Lisa Feigenson	163	The influence of frequency distribution of the input and test task requirements, in artificial grammar learning (AGL).	Fenna Poletiek, Nick Chater
142	Hemispheric Asymmetries in Categorical Perception of Orientation	Anna Franklin, Dianne Catherwood, James Alvarez, Emma Axelsson	164	Learning Names of Rotated Novel Objects	Jessica Horst, Emily Scott
143	The Relationship between Harmonic Priming and Stroop Interference: A Study of Individual Differences	Nart Bedin Atalay, Mine Misirlisoy	165	Relative priority of the most acceptable location for a spatial term	Takatsugu Kojima
144	Moral Reasoning Given a Strong Argument and Time	Joseph Paxton, Leo Ungar, Joshua Greene	166	Word Processing in Picture-Word Interference May Be under Cognitive Control	Leendert Van Maanen, Hedderik van Rijn
145	How much logical structure is helpful in content-based argumentation software for legal case solving?	Stijn Colen, Fokie Cnossen, Bart Verheij	167	On modes and waves. The impact of learning modes on foreign language representation and processing .	Martin G. Döpel
146	Learning absence exceptions to general rules	Anne Hsu, Nick Chater	168	Using Reaction Times to Compare Two Models of Randomness Perception	Giorgio Gronchi, Steven A. Sloman
147	Developmental Evidence for a Canonical Syntax-Semantics Mapping for Verbs of Psychological States	Amanda Pogue, Joshua K. Hartshorne, Jesse Snedeker	169	Structural Priming of Comprehension in Temporarily Ambiguous and Unambiguous Sentences: Evidence from Czech	Filip Smolik
148	The effect of reversal on reproduction of observed temporal sequences	John Hyland, Denis O'Hora, Julian Leslie, Sinead Smyth	170	Statistics All the Way Down: How is Statistical Learning Accomplished Using Varying Productions of Novel, Complex Sound Categories?	Lauren Emberson, Ran Liu, Jason Zevin
149	Multi-Level Cellular Automata: a platform for understanding perceptual and social dynamics	Jan Koenderink, Whitman Richards	171	The brain response of the recognition processing of words which associated with emotional picture	Ji-Won Chun, Jae-Jin Kim, Hae-Jeong Park, Se Joo Kim, Il-Ho Park
150	Phonological and episodic buffer contribution to short-term memory in deaf signers	Elizabeth Hirshorn, Nina Fernandez, Daphne Bavelier			

# Friday Poster Session

1	How to improve women's performance in physics through instructing stereotype threat	Regina Vollmeyer, Anita Puettmann, Margarete Imhof
2	Causal Inference when Observed and Unobserved Causes Interact	Benjamin Rottman, Wooyoung Ahn
3	The problem of sentence meaning: the quantum theory approach	Vladimir Glebkin
4	The Role of Feedback in Learning Form-Meaning Mappings	Patrick Jeuniaux, Rick Dale, Max Louwerse
5	Children's Use of Disfluencies for Pragmatic Inference in Lexical Development	Celeste Kidd, Katherine S. White, Richard Aslin
6	Computational requirement and the misunderstanding of language inconsistent word problems	Yves Bestgen
7	The influence of target discriminability on the time course of attentional selection	Srivas Chennu, Patrick Craston, Brad Wyble, Howard Bowman
8	Eye movement strategies in overall similarity and single-dimension sorting.	Fraser Milton, Andy Wills
9	Learning new categories: Adults tend to use rules while children sometimes rely on family resemblance	John Paul Minda, Sarah Jane Miles
10	Predicting Moral Judgments of Corporate Responsibility with Formal Decision Heuristics	Anna Coenen, Julian Marewski
11	Repeated judgments in elicitation tasks: efficacy of the MOLE method	Matthew Welsh, Michael Lee, Steve Begg
12	Exploiting Spatial Relational Knowledge for Visual Cognitive Tasks	Medhat Riad, Florian Roehrborn, Nils Einecke, Julian Eggert
13	Modeling Acquisition of a Torque Rule on the Balance-scale Task	Fredéric Dandurand, Thomas Shultz
14	Spatial components in the mental representations of numeric and symbolic magnitudes: Extending the SNARC effect	William Petrusic, Samuel Shaki, Craig Leth-Steensen
15	Serial Subtraction Errors Revealed	Sue Kase, Frank Ritter, Michael J. Schoelles
16	Integrating Episodic and Semantic Information in Memory for Natural Scenes	Pernille Hemmer, Mark Steyvers
17	Effects of Caffeine on Cognitive Tasks	Lorraine Valladares, Irena Cosic, Anthony Bedford
18	Communicative Gestures and Memory Load	Lisette Mol, Emiel Krahmer, Alfons Maes, Marc Swerts
19	The Double-edged Sword of Pedagogy: Modeling the Effect of Pedagogical Contexts on Preschoolers' Exploratory Play	Elizabeth Baraff Bonawitz, Patrick Shafto, Hyowon Gweon, Isabel Chang, Sydney Katz, Laura Schulz
20	When a coin toss does not appear random: Causal belief and judgments of randomness.	Fiona McDonald, Ben Newell
21	The dual systems approach to category learning: How do people switch between systems?	Megan Heffernan, Ben Newell
22	Cognitive Effects of Synesthetic Metaphors Evoked by the Semantic Interaction	Maki Sakamoto, Akira Utsumi
23	Strong systematicity in sentence processing by simple recurrent networks	Philemon Brakel, Stefan Frank
24	Effects of Concurrent Performance Monitoring on Cognitive Load as a Function of Task Complexity	Tamara van Gog, Fred Paas
25	A Multi-Agent Systems Approach to Gossip and the Evolution of Language	Inge Slingerland, Maurice Mulder, Elske van der Vaart, Rineke Verbrugge
26	Experimental and Computational Analyses of Strategy Usage in the Time-Left Task	Ben Meijering, Hedderik van Rijn
27	The Referent of Accented Pronouns is Determined by Coherence Relations	Ryan C. Taylor, Laurie A. Stowe, Gisela Redeker, John C. J. Hoeks
28	Children's Understanding of Counterfactual Alternatives	Rachel McCloy, Paul Strange
29	Inhibitors and Facilitators of Peer Argumentation that Supports Conceptual Learning: The Role of Achievement Goals	Christa S. C. Asterhan, Baruch B. Schwarz, Ruth Butler
30	Conjunction and Disjunction Fallacies in Prediction Markets	Michael Lee, Emily Grothe, Mark Steyvers
31	Strategies for the exploration of ornament performance	Renee Timmers, Makiko Sadakata, Peter Desain
32	Causal Induction Enables Adaptive Decision Making	Björn Meder, York Hagmayer
33	Money Illusion in the human brain	Krishna Miyapuram, Philippe Tobler, Lucy Gregorios-Pippas, Wolfram Schultz
34	Automatic and voluntary shifts of attention in a Dynamic Neural Field model of the Dimensional Change Card Sort task	Aaron Buss, John Spencer
35	Temporal Recalibration in Audio-Visual Speech Integration Using a Simultaneity Judgment Task and the McGurk Identification Task	Kaori Asakawa, Akihiro Tanaka, Hisato Imai
36	Missing working memory deficit in dyslexia: children writing from memory	Erlin van Genuchten, Peter Cheng, Paul. P. M. Leseman, Marielle H. Messer
37	Modeling Participation within a Community	Richard Alterman, Johann Larusson
38	Language Comprehension: The Interplay Between Form and Content	Vasiliki Folia, Christian Forkstam, Peter Hagoort, Karl Magnus Petersson
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5	Adaptive Group Coordination	Michael Roberts, Robert Goldstone
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8	How Do Speakers Choose Uncertainty Phrases to Express Guilt Probabilities?	Marie Juanchich, Gaëlle Villejoubert
9	Linguistic Processes in Visuospatial Representation: Clarifying Verbal Interference Effects	Judith Bek, Mark Blades, Michael Siegal, Rosemary Varley
10	Learning from Games: Inductive Bias and Bayesian Inference	Michael Coen, Yue Gao
11	Cognitive Principles Central To Causality Understanding	Cristina Meini, Monica Bucciarelli, Giuseppe Maurizio Arduino, Francesca Vinai
12	Confirmation bias is rational when hypotheses are sparse	Amy Perfors, Daniel Navarro
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15	Cause and Intent: Social Reasoning in Causal Learning	Noah Goodman, Chris Baker, Joshua Tenenbaum
16	How Tall Is Tall? Compositionality, Statistics, and Gradable Adjectives	Lauren Schmidt, Noah Goodman, David Barner, Joshua Tenenbaum
17	Similarities and Individual Differences in the Wason Selection Task: An Item Response Theory Analysis	Kuninori Nakamura
18	Navigating word association norms to extract semantic information	Javier Borge-Holthoefer, Alex Arenas
19	What it means to be "better": The role of comparison language in social comparison	Amber Bloomfield, Jessica Choplin
20	The Sensory Nature of Knowledge: Generalization vs. Specification	Lionel Brunel, Guillaume Vallet, Benoit Riou, Remy Versace
21	False recognition through semantic amplification	Brendan Johns, Michael Jones

22	Chunking or not chunking? How do we find words in artificial language learning?	Ana Franco, Arnaud Destrebecqz
23	Integrating graphical information into cognitive modeling of web navigation	Saraschandra Karanam, Herre van Oostendorp, Mari Carmen Puerta Melguizo, Bipin Indurkha
24	Can a chaining model account for serial recall?	Simon Dennis
25	Relating Personality and Physiological Measurements to Task Performance Quality	Fiemke Both, Mark Hoogendoorn, Rianne van Lambalgen, Rogier Oorburg, Michael de Vos
26	The Cognitive Consequences of Using Categorical versus Dimensional Classification Systems: The Case of Personality Disorder Experts	Benjamin Rottman, Nancy Kim, Woo-kyoung Ahn, Charles Sanislow
27	An Information Search Model Integrating Visual, Semantic and Memory Processes	Myriam Chanceaux, Anne Guérin-Dugué, Benoît Lemaire, Thierry Baccino
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29	Graphical Production of Complex Abstract Diagrams: Drawing Out Chunks and Schemas	Unaizah Obaidallah, Peter Cheng
30	Recognition Memory Deficits in Alzheimer's Disease: Modeling Clinical Groups and Individual Patients	James Pooley, Michael Lee, William Shankle
31	Hyperintentionality in schizophrenia: An fMRI study	Bruno G. Bara, Angela Ciaramidaro, Mauro Adenzato, Nenad Vasic, Rita B. Ardito, Susanne Erk, Henrik Walter
32	'If only' counterfactuals and the exceptionality effect	James Dixon, Ruth M. J. Byrne
33	MDLChunker: a MDL-based Model of Word Segmentation	Vivien Robinet, Benoît Lemaire
34	Sensitivity to statistical regularities: People (largely) follow Benford's law	Bruce Burns
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38	Integration of facial information is sub-optimal	Jason Gold, Bosco Tjan, Megan Shotts
39	Non-Decision Time Effects in the Lexical Decision Task	Christopher Donkin, Scott Brown, Andrew Heathcote, Sally Andrews
40	Revising the limits of learning in Absolute Identification	Pennie Dodds, Christopher Donkin, Scott Brown, Andrew Heathcote
41	Recommender Systems for Literature Selection: A Competition of Decision Making and Memory Models	Leendert Van Maanen, Julian Marewski
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43	On the Link between Cognitive Control and Heuristic Processes	Edward Cokely, Paula Part, Lael Schooler	63	Incremental Model Construction: Eye-movements reflect mental representations and operations – even if there is nothing to look at.	Marco Ragni, Thomas Fangmeier, Andreas Bittner, Lars Konieczny
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55	Young Children's Number-Word Knowledge Predicts Their Performance on a Nonlinguistic Number Task	James Negen, Barbara W. Sarnecka	75	Analogical Scaffolding in Collaborative Learning	Soniya Gadgil, Timothy Nokes
56	Congenitally Blind do not Comprehend Better I Grasp the Idea than I See the Idea: A Challenge to the Use of Sensory-motor Conceptual Metaphors in the Comprehension of Metaphorical Expressions	RICARDO ADRIAN MINERVINO, ALEJANDRA MARTIN, MÁXIMO TRENCH	76	Tutored Problem Solving vs. "Pure" Worked Examples	Ryung Kim, Rob Weitz, Neil Heffernan, Nathan Krach
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85	No Representation without Taxation: The Costs and Benefits of Learning to Conceptualize the Environment	Melody Dye, Michael Ramscar	106	Semisupervised category learning: the impact of feedback investigated in the perceptual representation system	Katleen Vandist, Maarten De Schryver, Yves Rosseel
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96	"Bob thinks this but Emily thinks that": Contrastive beliefs improve kindergartners' scientific reasoning	Claire Cook, Laura Schulz	117	Online processing of speech prosody in children with autism spectrum disorders: An eye-tracking study	Yui Miura, Tomoko Matsui, Yoshikuni Tojo, Hiroo Osanai
97	MusiCog: A Framework to Assess Music Grouping Systems Using Cognitive Models	Gopala Krishna Koduri	118	Sustained Attention: Exogenous or Endogenous control? Evidence by a Continuous Attentional Orienting Task (CAOT)	Mara Sebastiani, Maria Casagrande, Antonino Raffone, Diana Martella, Andrea Marotta, Lisa Mac-cari
98	Numerical and Spatial Abilities in a Language-Deprived Adolescent	Daniel Hyde, Sang-Ah Lee, Nathan Winkler-Rhoades, Elizabeth Spelke, Veronique Izard, Kevin Shapiro	119	A novel paradigm for exploring the neural mechanisms of visual memory suppression	Ean Huddleston, Michael Anderson
99	Musicat: A model of music perception and expectation	Eric Nichols, Douglas Hofstadter	120	Discrimination of the conscious and not conscious perception of famous and unknown faces from EEG oscillatory activity: Application of Support Vector Machine classifiers.	Aurélien Campagne, Jacques Martinerie, Jean Lorenceau, Bernard Renault
100	Believing is Seeing: Children's Causal Beliefs Affect Visual Exploration and Prediction	Elizabeth Baraff Bonawitz, Stephanie Brenman, Laura Schulz	121	The Effects of Verbal and Graphical Recall Strategies on Text Retention and Text Comprehension	Liesbeth Kester
101	Avoiding Logical Omniscience by Default - An Investigation into Autoepistemic Logic (Levesque, 1990)	Matthias Unterhuber	122	Does the K-12 practice of mixing pictures and graphs contribute to students' 'graph-as-picture' misconceptions?	Grecia Garcia Garcia, Richard Cox
102	That's How it Goes with Fictive Motion	Michelle Greenwood, Tee-nie Matlock			
103	Outsourcing the Inference Evaluation in Causal Analogies	Julie Colhoun, Dedre Gentner			

123	The TRIPLE Cognitive Architecture: Implementation of Embodied Agents Based on a Cognitive Model	Maurice Grinberg, Vladimir Haltakov, Hristo Laftchiev, Stefan Kostadinov, Kiril Kyriazov	145	Tracking the course of algebra learning	Matthew Walsh, John Anderson
124	Alignment of Spatial Perspective	Elena Andonova	146	Shifts of Facial Attention Distribution in Trait Anxiety Participants	David Hendrickson, Emily Chaffin, Laura Thompson
125	Position-sensitive letter substitution and letter transposition effects on masked orthographic priming	Patrick A. O'Connor, Laurie Beth Feldman	147	Accounting for Pause Patterns in Writing: Integrating Strategies and Processing Requirements in a Cognitive Architecture	Rossano Barone, Peter Cheng
126	Are Tims hot and Toms not? Probing the effect of sound symbolism on perception of facial attractiveness	Franziska Hartung, Daniel Klenovsak, Luenya Santiago dos Santos, Carolin Strobl, Dietmar Zaefferer	148	Is the OR-structure a Default Model in Inferring Causal Structure?	Kyung Soo Do, JaeHyuk Choi, Han Eol Choi
127	Semantic principles are more important than syntactic ones for low proficient second language learners: Evidence from sentence processing	Josje Verhagen	149	Neural Substrates of Posttraumatic Stress Disorder: Functional Magnetic Resonance Imaging Study Using Negative Priming Task	jeong ryu, Byeong-Taek Lee, Myeong-Ho Sohn, Dong Hoon Lee, Nam Hee Choi
128	Joint perception across tasks	Daniel Richardson, Merrit Hoover, Arezou Ghane	150	Statistical mechanics of semantic cognitive maps	Alexei V. Samsonovich
129	Do Object Affordances affect Hand Identification?	Alexia Toskos Dils, Stephen Flusberg, Lera Boroditsky	151	Subattractor Dynamics in Real-Time Mental Processing	Michael Wojnowicz, Gary Lupyan, Melissa Ferguson, Michael Spivey
130	Perceiving Affordances for Joint Action	Tehran Davis, Michael Riley, Kevin Shockley	152	Cognitive Barriers to Authentic Contractual Consent	Jessica Choplin, Debra Pogrud Stark
131	Stride Length and Step Rate Influence Egocentric Distance Perception	Elijah White, Jonathan Shook, Kevin Shockley, Michael Riley	153	Relationship between the Information Grouping Strategy and Idea Generation	Sachiko Kiyokawa, Yuichi Washida, Kazuhiro Ueda, Eileen Peng
132	Counterfactual 'if only' conditionals	James Dixon, Robert Guttentag, Ruth M. J. Byrne	154	Are People with Very Different Parents More Creative? Some Preliminary Studies	Liane Gabora, Stefan Leijnen, Brian O'Connor
133	Learning to Lose Less	Erica C. Yu, David A. Lagnado, Nick Chater	155	Labeling and young children's understanding of symbols	Nathan Winkler-Rhoades, Susan Carey, Elizabeth Spelke
134	Flexible Spatial Language Behaviors: Developing a New Dynamic Theoretical Framework	John Lipinski, Yulia Sandamirskaya, Gregor Schöner	156	Simultaneous Noun and Category Learning via Cross-Situational Statistics	George Kachergis, Tarun Gangwani, Chen Yu
135	Nonmonotonic function learning as similarity construction	Michael Kalish	157	Visual Similarity and Difference with Separable and Integral Dimensions	Michael Romano
136	A rational model of function learning	Christopher Lucas, Thomas Griffiths, Michael Kalish	158	Saccades and Finger Movements Are Planned Using Visual Memory As Well As Current Retinal Information	Laurel Issen, David Knill
137	The Effect of Causal Strength on the Use of Causal and Similarity-based Information in Feature Inference	Rachel Stephens, Daniel Navarro, John Dunn, Michael Lee	159	Patterns of word learning	Emily Thom, Catherine Sandhofer
138	Can interaction with an artificial category reduce the salience of that category?	Aaron Loehlein	160	Competition Between Reinforcement and Similarity in Category Learning	John McDonnell, Todd Gureckis
139	Fractal Patterns in Complex Reading Tasks	Sebastian Wallot, Guy Van Orden	161	What our eyes can tell us about how an insight emerges?	Tsunhin John Wong, Christian Schunn, Greg Siegle
140	Treading a Slippery Slope: Slant Perception In Near and Far Space	Eric Chiu, Merrit Hoover, Joshua Quan, Bruce Bridgeman	162	An Exploration of Dialect-Driven Modulation of Spoken Word Recognition	Jennifer Roche, Rick Dale, Thomas Farmer, Jason Zevin
141	A walk through face space: Affect classification using Markov chain Monte Carlo	Jason Martin, Thomas Griffiths, Adam Sanborn	163	A Dialogue Experimentation Toolkit	Patrick G.T. Healey, Gregory J. Mills
142	Better associative learning when confusable shapes serve as cues rather than as associates.	Adam November, Nicolas Davidenko, Michael Ramscar	164	Language context matters: An ERP study of transient and sustained control in bilingual language switching	Ingrid Christoffels, Carien Caljouw, Guido Band, Niels Schiller, Lorenza Colzato
143	Intentional aspects of spatial perception: Stimulus control reverses implied-friction effects in representational momentum	Jerome Scott Jordan, Charles Coey, Kyriakos Tsiappoutas	165	Core knowledge of social dominance	Lotte Thomsen, Willem E. Frankenhuis, Susan Carey, Brittany Walker-Meade
144	Neuroimaging Evidence on the Role of the Prefrontal Cortex in Dynamic Object Categorization for Goal-Achievement	Evangelia G. Chryssikou, Sharon L. Thompson-Schill			

# **CogSci 2010**

*“Cognition in Flux”*

## **The 32<sup>nd</sup> Annual Meeting of the Cognitive Science Society**

**Oregon Convention Center  
Portland, Oregon, USA  
August 11-14, 2010**

**Conference Co-Chairs: Stellan Ohlsson and Richard Catrambone**

**Plenary Speakers:**

**Peter Gerjets**

**Marsha Lovett**

**Philip David Zelazo**

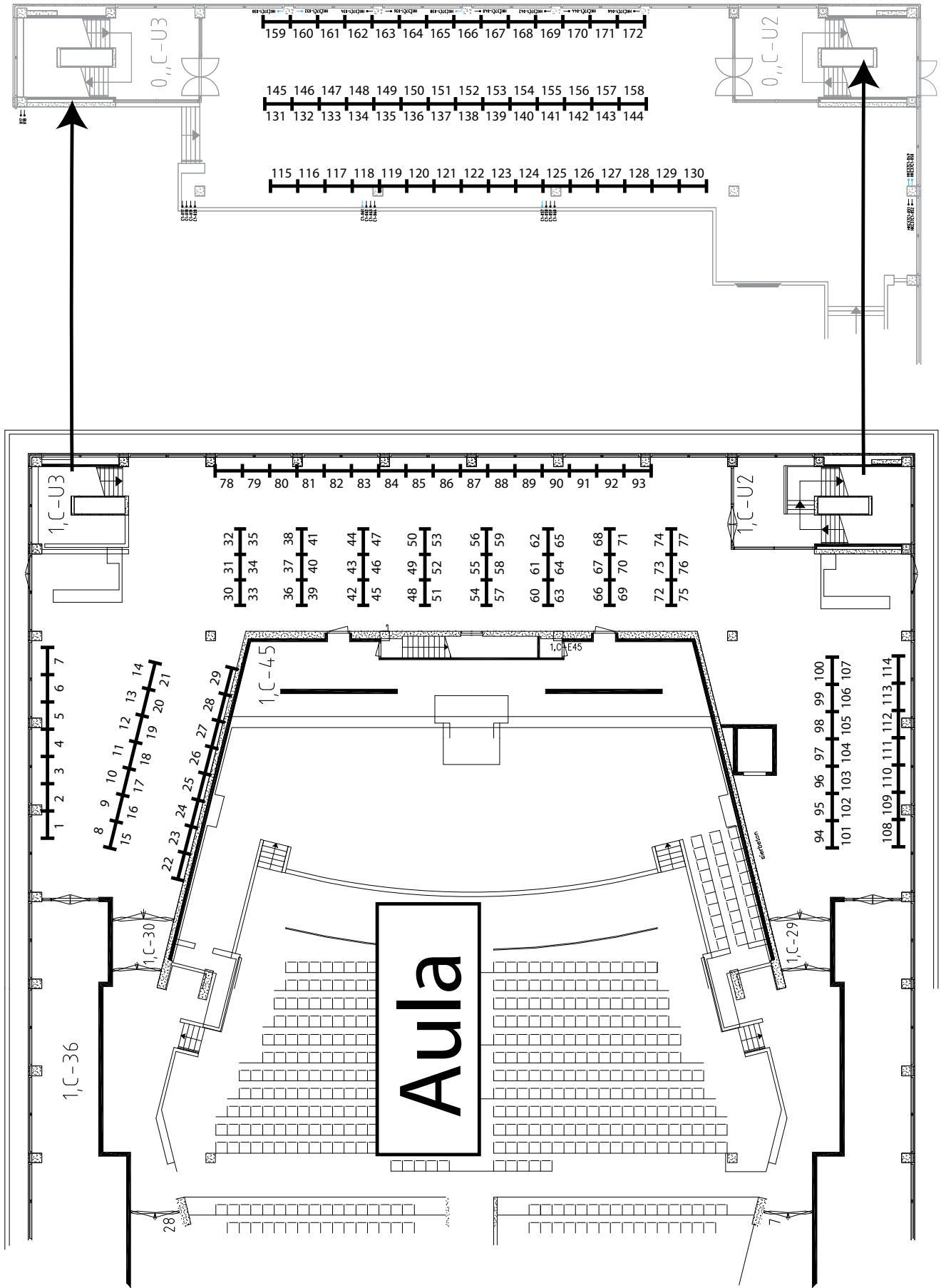
Submissions due: February 6, 2010

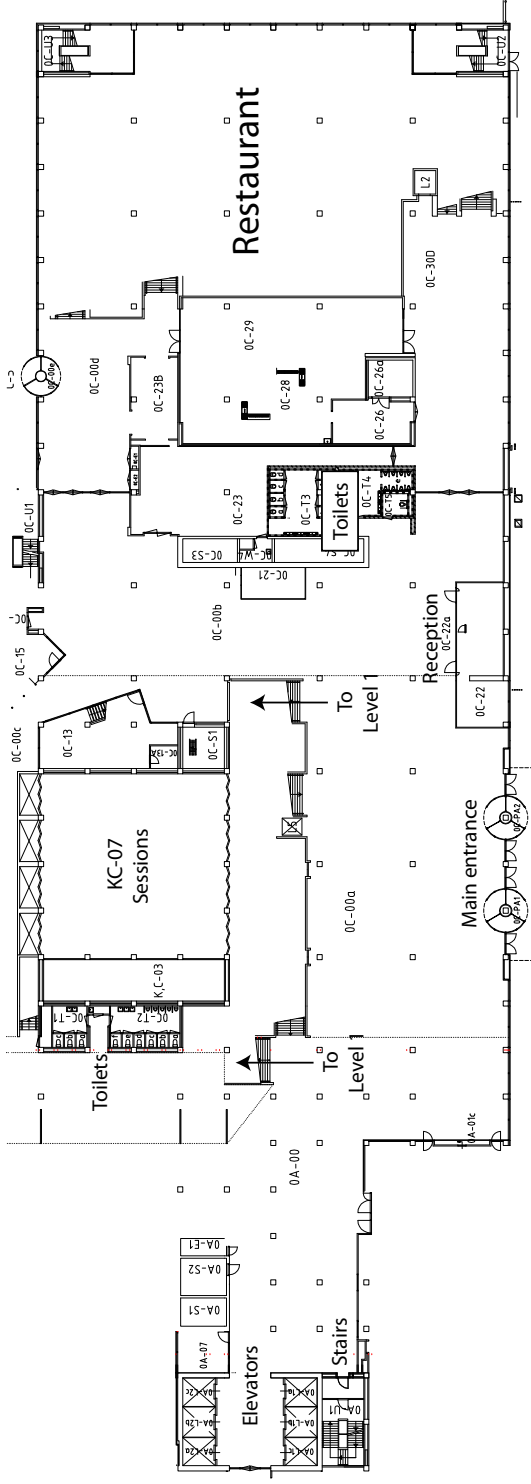
<http://cognitivesciencesociety.org/conference2010/index.html>

Cognitive scientists from around the world are encouraged to submit their work and to attend CogSci2010, the world’s premiere annual conference on cognitive science. The conference aims to represent a broad spectrum of topics, issues, and methodologies, so submissions are welcome in *all* areas of cognitive science. In addition to submitted papers, posters, and symposia, there will be invited presentations by leaders in the field who will summarize the state of the science in key areas, with emphasis on issues of cognitive change. The plenary speakers include Peter Gerjets (University of Tübingen), Marsha Lovett (Carnegie Mellon University), and Philip David Zelazo (University of Minnesota). The 2010 Annual Meeting will be the 32<sup>nd</sup> in the Society’s history, and it will be held at the Oregon Convention Center, in beautiful Portland, Oregon, USA.

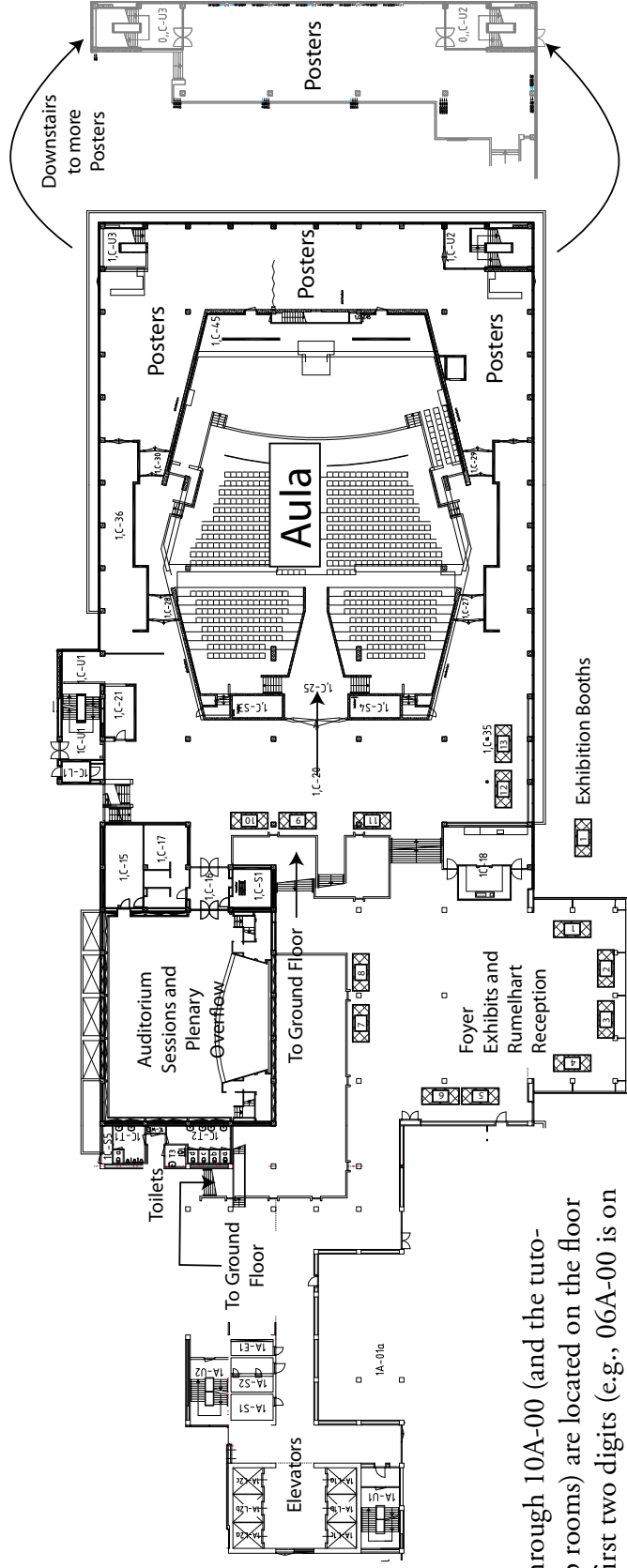


# Poster Map





Ground Level



Level 1

Rooms 02A-00 through 10A-00 (and the tutorial and workshop rooms) are located on the floor indicated by the first two digits (e.g., 06A-00 is on the sixth floor). Use stairs or elevators to get there.