CogSci 05 Detailed scheduling

Updated May the 24th 2005. Details about poster sessions, locations, and social events, as well lacking details for symposia, will appear soon.

Thursday, July 21

8:30 **10:00**	Session1A **Deductive reasoning (1)** What underlies the assessment of conditionals? Uri Hasson, Clare Walsh, Philip Johnson-Laird Issues in reasoning about iffy propositions: The initial representation of conditionals Walter Schroyens FMRI-Evidence for a three-stage-model of deductive reasoning Markus Knauff, Thomas Fangmeier, Christian Ruff , Vladimir Sloutsky The limits of supposing: Semantic illusions and conditional probability Shira Elqayam, Simon J. Handley, Jonathan StBT Evans	Session1B **Category learning (1)** Overshadowing as a mechanism underlying the effect of labels on categorization Vladimir Sloutsky, Christopher Robinson, Calvin Timbrook Stimulus generalization in category learning Matt Jones, W. Todd Maddox, Bradley C. Love Impaired cognitive flexibility and intact cognitive control in autism: a computational cognitive neuroscience approach Trenton Kriete, David Noelle Are greebles special? Or, why the fusiform fish area would be recruited for sword expertise (if we had one) Matthew H. Tong, Carrie A. Joice, Garrison W. Cottrell	Session 1C **Meta-representational abilities & social cognition** A conceptual complexity account of theory of mind development Matthew Phillips From the theory of the construction of social reality Guido Boella, Leendert van der Torre Epistemic motivation and groups' reaction to change: effects of need for cognitive closure on norms transmissions in a laboratory micro-culture Stefano Livi, Lucia Mannetti, Antonio Pierro, Arie W. Kruglanski, David A. Kenny What do we get when dipping a brain into science? Properties of scientific mind Christophe Heintz	Symposium1 **Language and cognition** Proponent: Anna Papafragou Speakers: Dedre Gentner Lila Gleitman Barbara Landau Anna Papafragou Discussant: Willem Levelt
10:00 **10:15**	Welcome and Opening Remarks • The CSS Chair, Wayne Gray, welcome the audience and announce the Marr Prize winner, the new Fellows, and the new Honorary Lifetime Members • The Chairs of the Conference welcome the audience			
10:15 **11:15**	**Plenary - Andy Clark "Material symbols: From translation to co-ordination in the constitution of thought and reason"** Chair: Nancy Nersessian			

11:15 11:45	Break				
11:45 13:15	**Session 2A** **Deductive reasoning (2)** Issues in reasoning about iffy propositions: Deductive rationality in validating and testing conditional inferences Walter Schroyens An Inspection-time analysis of figural effects and procession direction in syllogistic reasoning Ed Stupple, Linden Ball, Preferred mental models in spatial reasoning Georg Jahn, Markus Knauff, Philip N. Johnson-Laird A computational model for spatial reasoning with mental models Marco Ragni, Marcus Knauff, Bernhard Nebel	**Session 2B** **Category learning (2)** The effects of naming practices on children's understanding of living things Florencia K. Anggoro, Sandra R. Waxman, Douglas L. Medin Developmental shifts in young children's categorizations of the earth Stella Vosniadou, Irini Skopeliti Children essentialism and explanatory strategies Basileios Krosutallis Microgenetic changes in representations of numerical magnitude John Opfer, Robert Siegler	**Session 2C** **Language acquisition (1)** A probabilistic model of early argument structure acquisition Afra Alishahi, Suzanne Stevenson New beginnings and happy endings: plausibility in computational models of language acquisition Luca Onnis, Morten Christiansen Simulating the cross-linguistic development of optional infinitive errors in MOSAIC Daniel Freudenthal, Julian Pine, Fernard Gobet Starting over: international adoption as a natural experiment in language acquisition Jesse snedeker, Joy Geren	**Session2D** **Motion and object recognition** Orientation specificity and semantic procession of biological motion: a case for vision at glance Paul Hemeren Visual hand primes and manipulable objects Anna M. Borghi, Claudia Bonfiglioli, Luisa Lugli, Paola Ricciarelli, Sandro Rubichi, Roberto Nicoletti The usual objects: a first draft on the composing and reassembling familiar objects images Fiora Pirri Developmental changes in the interference of motor processes with mental rotation Andrea Frick, Moritz M. Daum, Simone Walser, Fred W. Mast	Symposium2 **Cognitive Psychopathology** Proponent: Bruno G. Bara Speakers: Bruno G.Bara Simon Baron-Cohen Antonio Semerari Discussant: James McClelland
13:15 15:00	Lunch				

	Session 3A **Hypotheses' testing & inductive reasoning**	Session 3B **Concepts and categorization**	Session 3C **Language acquisition (2)**	Session3D **Perception, self-perception & consciousness**	Symposium3 **Looking at the mind through the lens of functional magnetic resonance imaging : chances and challenges** Proponent: Steven Small & Katiuscia Sacco
15:00 16:30	Eye-movement and reasoning: evidence for relevance effects and rationalisation processes in deontic selection tasks Linden Ball, Erica Lucas, Peter Philips Are there two kinds of reasoning? Evan Heit, Caren Rotello Taxonomic and ecological relations in open-end induction Allison Baker, John Coley Context-sensitive induction Patrick Shafto, Charles Kemp, Elizabeth Baraff, John Coley, Joshua Tenenbaum	How do cultural numerical concepts build upon an evolved number sense? Helen De Cruz Universal foci and varying boundaries in linguistic colour categories Terry Regier, Paul Kay, Richard Cook Do classifier categories structure our concepts? Henrik Saalbach, Mutsumi Imai How understanding novel compounds is facilitated by priming from similar, known compounds Georgios Tagalakis, Mark Keane	Syntactic classification of acquired structural regularities Christian Forkstam, Karl Mangus Petersson Simulating optional infinitive errors in child speech through the omission of sentence-internal elements Daniel Freudenthal, Julian Pine, Fernard Gobet Levels of representation in language development Padraic Monaghan, Nick Chater, Charles Hulme A Bayesian view of language evolution by iterated learning Thomas Griffiths, Michael Kalish	Perceptual modes of presentation John Kulvicki Anorexic subjects underestimate the amount of food Piergiuseppe Vinai, Noemi Ferrato, Silvia Cardetti, Paola Vallari, Gabriella Carpegna, Donatella Masante, Gianluigi Luxardi, Roberto Ostuzzi, Marita Pozzato, Patrizia Todisco Mirror symmetry perception: the effect of proximity to the central axis Matthew Dry Unity of consciousness Andrew Brook, Paul Raymont	Speakers : Steven Small & Katiuscia Sacco Francesco Di Salle Eraldo Paulesu Stefano Cappa Ana Solodkin Moderator : Steven Small
16:30 17:00	Break				

	Session 4A **Inductive reasoning**	Session 4B **What does facilitate learning**	Session 4C **Early word acquisition**	EU Meeting: *Cognitive Science research in Europe*	Symposium4 **Culture and mind: cultural models in cognition**
17:00 18:30	Categories and feature inferences: category membership and reasoning bias Takashi Yamauchi, Na-Yung Yu Effects of experience on relational inferences in children: the case of folk biology John Coley, Anna Vitkin, Claire Seaton, Jennelle Yopchick Dissociation between categorization and induction early in development: evidence for similarity-based induction Heidi Kloos, Anna Fisher, Vladimir Sloutsky Children's use of relevance in open-ended induction in the domain of biology Anna Vitkin, John Coley	Gestures convey semantic content for self and others Sandra Lozano, Barbara Tversky The repetition-shift plot structure: a cognitive influence on selection in the marketplace of ideas Jeffrey Loewenstein, Chip Health Taking the actor's perspective enhances action understanding and learning Bridgette Martin, Sandra Lozano, Barbara Tversky The dynamic jigsaw: repeated explanation support for collaborative learning Naomi Miyake Fostering the acquisition of transferable problem-solving knowledge with an interactive comparison tool and dynamic visualizations of solution procedures Julia Schuh, Peter Gerjets, CatharinaScheiter	The nature of early word comprehension: symbol or association? Christopher Robinson, Erica Howard, Vladimir Sloutsky Why are verbs harder to learn than nouns? Initial insights from a situated computational model of intention recognition in word learning Michael Fleischman, Deb Roy Word learning as Bayesian inference: evidence from preschoolers Fei Xu, Joshua Tenenbaum A model of infant learning of word stress Thomas Shultz, LuoAnn Gerken	Open to anyone interested	Proponent: Giovanni Bennardo Speakers: Giovanni Bennardo David B. Kronenfeld Dwight W. Read Bradd Shore Discussant: Douglas L. Medin
18:30 21:00	Poster1 with Buffet				

Friday, July 22

8:30 10:00	Session 5A **Causal reasoning** The meaning of cause and prevent: the role of causal mechanism Clare Walsh, Steven Sloman Probability and contiguity trade-offs in casual induction Marc Buehner, Stuart McGregor Diagnosis of ambiguous faults in simple network Geoffrey P. Goodwin, Philip N. Johnson-Laird Doing after seeing Bjoern Meder, York Hagtmayer, Michael R. Waldmann	Session 5B **What does and does not facilitate learning** Statistical learning within and across modalities: abstract versus stimulus-specific representations Christopher M. Conway, Morten H. Christiansen Point and click or build by hand: comparing the effects of physical vs. virtual materials on middle school students' ability to optimize an engineering design Lara Triona, David Klahr, Cameron Williams Intervention in multiple-cue judgment: not for the better Tommy Enkvist, Peter Juslin, Henrik Olsson, Ben Newell When less is sometimes more: optimal learning conditions are required for schema acquisition from multiple examples Katharina Scheiter, Peter Gerjets Augmenting worked-out examples by pictorial representation: when do they aid learning? Peter Gerjets, Katharina Scheiter, Catrambone Richard	Session 5C **Features processing** Towards a quantitative corpus-based evaluation measure for syntactic theories Franklin Chang, Elena Lieven, Elena Lieven From-priming of language: inhibition and facilitation Sven Van, Géry d'Ydewalle When nominal features are marked on verbs: a transcranial magnetic stimulation study Chiara Finocchiaro, Brigida Fierro, Alfonso Caramazza The morpheme gender effect: an evidence for decomposition Fanny Meunier, Alix Seigneuric, Elsa Spinelli	Symposium5 **Rumelhart prize symposium** Proponent: Géraldine Legendre Speakers: Adamantios Gafos & Stefan Benus Lisa Davidson Colin Wilson Brunce Tesar Discussant: Géraldine Legendre
10:00 11:00	**Plenary - Paul Smolensky** **"Optimization in neural networks and in universal grammar"** Chair: John Anderson			
11:00 11:30	Break			

| 11:30 13:00 | Session 6A **Causal reasoning and problem solving** Casual determinism and preschoolers causal inferences Laura Schultz, Jessica Sommerville, Alison Gopnik Do preschoolers understand causality? A critical Look Heidi Kloos, Vladimir Sloutsky Synthetic reasoning and the reverse engineering of Boolean circuits N.Y. Louis Lee, P.N. Johnson-Laird Design problem solving with conceptual diagrams Fehmi Dogan, Nancy Nersessian | Symposium6 **Miscommunication** Proponent: Healey | Session 6C **Word processing** Convert bilingual language activation through cognate word processing: an eye-tracking study Henrike K. Blumenfeld, Viorica Marian Semantic, phonological and lexical influence on regular and irregular inflection Yi Ting Huang, Steven Pinker Probing the syllabic structure of words using the audio-visual McGurk effect Azra Ali, Michael Ingleby Does gender information influence early phases of spoken word recognition? Elsa spinelli, Fanny Meunier, Alix Seigneuric | Session6D **Face perception** Age of acquisition in facial identification: a connectionist approach Brenden Lake, Garrison Cottrell Using a neural network model with synaptic depression to assess the dynamics of feature-based versus configurel processing in face identification Cory Rieth, David Huber Prediction experimental similarity ratings and recognition rates for individual natural stimuli with the NIM model Joyca Lacroix, Eric Postma, Jaap Murre Cognition and face decoding. A band frequency analysis Michela Balconi, Claudio Lucchiari | Debate1 **Solution to Fodor's puzzle of concept acquisition (a)** Proponent. Niyogi |
| 13:00 14:30 | Lunch | | | | |

| 14:30 16:00 | Session 7A **Decision making**

Individual differences in rational thinking time
Wim De Neys

Newcomb's problem as cognitive illusion
Peter Slezak

Imagining low probability events: contrasting exemplar cuing and frequency formats accounts
Ben Newell, Chris Mitchell, Brett Hayes

Decision under uncertainty and moral affects
Amelia Gangemi, Francesco Mancini | Session 6B

ACT & companion cognitive systems

A neurobehaviorally inspired ACT-R model of sleep deprivation: decreased performance in psychomotor vigilance
Glenn Gunzelmann, Kevin Gluck, Hans Van Dongen, Robert O'Conner, David Dinges

Can ACT-R realize "Newell's dream"?
Matthew Rutledge-Taylor

Stochastic resonance in human cognition: ACT-R versus game theory, associative neural networks, recursive neural networks, Q-learning, and humans
Robert West, Terrence Stewart, Christian Lebiere, Sanjay Chandrasekharan

Companion Cognitive Systems: an overview
Kenneth Forbus | Session 7C
Lexical semantics

Configuring the phonological organization of the mental lexicon using syntactic and semantic information
Monica Tamariz

Interaction of structural and contextual constraints during the on-line generation of scalar inferences
Napoleon Katson, Richard Breheny, John Williams

Aspects of the logical structure of conceptual analysis
Sourabh Niyogi

Large-scale modelling of lexical process
Christopher Kello | Symposium7
Generating explanatory hypotheses: mind, computer, brain, and world
Proponent: Paul Thagard

Speakers:
Pat Langley
Lorenzo Magnani
Christian Schunn
Paul Thagard | Debate1
Solution to Fodor's puzzle of concept acquisition (b)
Proponent. Niyogi |
| 16:00 16:30 | Break | | | | |

7

16:30 18:00	Session 8A **Decision making and judgement of plausibility** Feature inference: tracking mouse movement Nicholas Kohn, Takashi Yamauchi The effects of prior use on preference Samuel Day, Daniel Bartels Broadening plausibility: a sensitivity analysis of PAM Louise Connel, Mark T. Keane Children's counterfactual thinking Julie Meehan, Ruth Byrne	Session 7B **Natural systems for information processing** Mental mechanisms: what are the operations? William Bechtel Discrimination and generalization in pattern categorization Evan Liversey, Philippa Broadhurst, Ian McLaren Spatial variation and peak shift Evan Liversey, Lucy Pearson, Ian McLaren Instructional implications of natural information processing systems John Sweller	Session 8C **Sentence processing & pragmatics** A connectionist model of sentence comprehension in visual words Marshall Mayberry, Matthew Crocker, Pia Knoeferle Optimality theory and human sentence processing: the case of coordination John Hoeks, Petra Hendriks Relevance theory through pragmatic theories of meaning Ahti-Veikko Pietarinen Grounding natural language quantifiers in visual attention Kenny Coventry, Angelo Cangelosi, Stephen Newstead, Alison Bacon, Rohanna Rajapakse	Session8D **Cognitive modelling in real environments** Computational modelling of chord fingering for string instruments Daniele Radicioni, Vincenzo Lombardo Music cognition: theory and model selection Henkjan Honing Why information retrieval needs cognitive science: a call to arms Eduard Hoenkamp Differences of split and non-split architectures emerged from modelling Chinese character pronunciation Janet Hui-wen Hsiao, Richard Shillcock	Symposium8 **Neuroeconomics and the social brain** Proponent: Walter
18:00 20:00	Reception for Paul Smolensky Next year's Rumelhart prize winner announced				
20:00 22:00	Poster2				

8

Saturday, July 23

8:30 10:00	Session 9A **Analogical reasoning**	Session 8B **Memory**	Session 9C **Communication**	Symposium9 **Spatial schemas and abstract thought** Proponent: Merideth Gattis
	Similarity-based qualitative simulation Jin Yan, Kenneth Forbus A structure mapping model for solving geometric analogy problems Emmet Tomai, Andrew Lovett, Kenneth Forbus, Jeffrey Usher Relational words as handles: they bring along baggage Ji Y.son, Robert L. Goldstone A symbolic-connectionist model of relation discovery Leonidas Doumas, John Hummel	Encoding and retrieval efficiency of episodic data in a modified sparse distributed Sidney D'Mello, Uma Ramamurthy, Stan Franklin Creating false memories in humans with an artificial neural network: implications for theories of memory consolidation Serban C. Musca, Stéphane Rousset, Bernard Ans Picture theory, tacit knowledge or vividness-core? The hypotheses on the mind's eye and its elusive size Amedeo D'Angiulli, Adam Reeves Time monitoring and control cognitive control in children and adults Timo Mäntylä, Maria Grazia Carelli	The source of beliefs in conflicting and non conflicting situations Hugo Mercier, Jean-Baptiste Van der Henst What happens when experts over-or underestimate a layperson's knowledge in communication ? Effects on learning and question asking Jörg Wittwer, Matthias Nückles, Alexander Renkl Categorical recurrence analisysis of child language Rick Dale, Michael Spivey Studying situated communication with an embodied agent Ipke Wachsmuth	Speakers: William A. Roberts Simone Schnall Merideth Gattis & Jing Jing Ding
10:00 11:00	**Plenary - Giacomo Rizzolatti "The mirror neuron system and its role in understanding the others"** Chair: Steven Small			
11:00 11:30	Break			

11:30 13:00	**Session 10A** **Analogical reasoning & learning** Self-explanation, feedback and the development of analogical reasoning skills: microgenetic evidence for a metacognitive processing account Andrea Cheshire, Linden Ball, Charlie Lewis Relevant concreteness and its effects on learning and transfer Jennifer Kaminski, Vladimir Sloutsky, Andrew Heckler Linking cognitive science to education: generation and interleaving effects Lindsey Richland, Robert Bjork, Jason Finley, Marcia Linn Conceptual and procedural knowledge of a mathematics problem: their measurement and their causal interrelations Michael Schneider, Elsbeth Stern	**Session 9B** **Attention and spatial processes** Computational and experimental evaluation of the attentional blink: testing the simultaneous type serial token model Bradley Wyble, Howard Bowman Two visual system and their movements: evidence from static and dynamic scene perception Boris M. Velichkovsky, Markus Joob, Jens R. Helmert, Sebastian Pannasch A recurrent model for spatial attention Marco Casarotti., Marco Zorzi, Carlo Umiltà An adaptive combination approach to spatial representation: using geometric and featural information Nora Newcombe	**Session 10C** **Language understanding and context** Focusing attention with deictic gestures and linguistic expressions Max Louwerse, Adrian Bangerter Context sensitivity of relational nouns Jennifer Asmuth, Dedre Gentner Incremental effects of mismatch during picture-sentence integration: evidence from eye-tracking Pia Knoeferle, Matthew W. Crocker Widening the wideware: an analysis of multimodal interaction in scientific practice Morana Alac	**Debate2** **Shared intentionality** Proponent: Livia Colle & Cristina Becchio Speakers: Raimo Tuomela Hannes Rakoczy Elizaveth Pacherie Livia Colle & Critina Becchio Bruno G. Bara Discussant: Livia Colle & Cristina Becchio	**Symposium10** **Conceptual grounding in cognitive processes** Proponent: Katja Wiemer-Hastings Speakers: Stevan Harnard Arthur M. Glenberg Robert L. Goldsone Katja Wiemer-Hastings & Kurby Rolf A. Zwann & Taylor
13:00 14:30	Lunch				

14:30 16:00	**Session 11A** **Learning** Categorization vs. inference: shift in attention or in representation? Håkan Nilsson, Henrik Olsson Differentiation for novel dimensions Stephen Hockema, Mark Blaier, Robert Goldstone Modelling individual differences with Dirichlet processes Daniel Navarro, Thomas Griffiths, Mark Steyvers, Michael Lee	**Session 10B** **Spatial processes** Mental simulation in spatial language processing Benjamin Bergen SpaceCase: a model of spatial preposition use Kate Lockwood, Ken Forbus, Jeffrey Usher Human spatial reorientation using dual task paradigms Kristin Ratliff, Nora Newcombe Lexical processing drives motor simulation Meylysa Tseng, Benjamin Bergen	**Session 11C** **Comprehension of stories and metaphors** A subsymbolic model of complex story understanding Peggy Fidelman, Risto Miikkulainen, Ralph Hoffman How do readers deal with flashbacks in narratives? Stephanie Kelter, Berry Ciaus Brain processes of relating a statement to a previously read text: memory resonance and situational constructions Franz Schmalhofer, Uwe Friese, Karin Pietruska, Markus Raabe, Roland Rutschmann Interpretive diversity as a source of metaphor-simile distinction Akira Utsumi, Yuu Kuwabara Negation in non-literal sentences Raluca Budiu, John R. Anderson	**Session11D** **Interaction of human and machines** Propagation of innovation in networked groups Winter Mason, Andy Jones, Robert Goldstone Assessing human likeness by eye contact in an android testbed Karl MacDorman, Takashi Minato, Michihiro Shimada, Shoji Itakura, Kang Lee, Hiroshi Ishiguro The acquisition and asymmetric transfer of interactive routines Wayne Gray, Daniel VeKsler In search for the holy grail: understanding artefact mediation in social interactions Tarja Susi	**Symposium11** **Origins of mindreading abilities in children and monkeys** Proponent: Claudia Thoermer Speakers: Judith Burkart & Adolf Heschl Luca Surian & Stefania Caldi Claudia Thoermer & Beate Sodian Henrike Moll & Michael Tomasello Discussant: Beate Sodian
16:00 16:30	Break				
16:15 17:00	Business Meeting: open to members of the Cognitive Science Society				
17:00 19:00	**Mind and Brain Prize** **James McClelland** "Organization and emergence of semantic knowledge: A parallel-distributed processing approach"			**Jerry Fodor** "What we still don't know about cognition"	

	Chair: Bruno G. Bara
19:00 21:00	Poster3