

The Second European Cognitive Science Conference

*May 23-27, 2007
Delphi, Greece*

Program

Edited by:

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With the help of

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Program

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Program Overview

	Wednesday May 23	Thursday May 24	Friday May 25	Saturday May 26
9:00-10:00	<u>Registration</u> ¹	Keynote speaker Gerd Gigerenzer	Keynote speaker Katherine Fuchs	Keynote speaker Rochel Gelman
10:00-11:30	<i>Opening Session</i> Keynote speaker Margaret Boden	Paper Session A. Conceptual Change B. Language Acquisition C. Reasoning & Cooperation	Paper Session A. Knowledge Construction & Change B. Philosophical Issues C. Morphology	Paper Session A. Analogy B. Semantics & Pragmatics C. Computer & Formal Models
11:30-12:00	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>
12:00-13:30	Symposia A. Cooperation B. Causal Reasoning C. Neurocognition	Symposia A. Thinking & Language B. Consciousness Paper Session C. Emotion	Symposia A. Design Research B. Computational Psycholinguistics	Symposia A. Analogy-Making B. Language & Brain Special Session C. Funding Agencies Panel
13:30-15:00	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
15:00-17:00	Paper Session A. Reasoning & Argumentation B. Categorization C. Eye & Language	<i>Visit to Archaeological Museum & Archaeological Site (15:00-17:30)</i> Symposia A. Metacognition (14:30-17:30) B. Body Representation (15:00-17:00) Special Session C. Naomi Miyake (16:30-17:30)	Paper Session A. Reasoning & Uncertainty B. Perception C. Learning	Paper Session A. Memory B. Neurocognition C. Models & Representation
17:00-17:30	<i>Coffee</i>		<i>Coffee</i>	<i>Coffee</i>
17:30-18:30	Keynote speaker Cristiano Castelfranchi	Keynote speaker Randy Gallistel	Keynote speaker Nancy Nersessian	Keynote speaker Jerry Fodor
18:30-20:30	Poster Session 1 <i>Opening Reception (20:30)</i>	Poster Session 2	Poster Session 3	-Disc. on Future of Cognitive Science -Closing Session <i>Farewell Dinner (20:30)</i>

Sunday May 27th

10:00-12:00 *Visit to Archaeological Museum & Archaeological Site*
13:00 **Departure from Delphi**
16:00 **Arrival in Athens**

¹ Registration will be open throughout the conference

Program

Wednesday, May 23

10.00-11.30: Opening Session & Keynote Address

Room A

Chair: *Stella Vosniadou*

Discussant: *Daniel Kayser*

The history of cognitive science: seven key dates

Speaker: *Margaret Boden*

12.00-13.30: Symposia

Room A: Invited Symposium

Chair: *Peter Gärdenfors*

Discussant: *Cristiano Castelfranchi*

Cooperation and the evolution of cognition

Peter Gärdenfors, Louise Barrett, and Brian Hare

Room B: Symposium

Chairs: *York Hagmayer & Denis Hilton*

Discussant: *Fintan Costello*

Causal Reasoning in Practice - How Causal Assumptions affect Explanations, Inferences and Decision Making

York Hagmayer, Denis Hilton, David Lagnado, Clare Walsh, John McClure, Jean Bonnefon, and Fintan Costello

Room C: Symposium

Chair: *Panagiota Panagiotaki*

Neurocognition of human spatial memory: New approaches, tests and technologies

Panagiota Panagiotaki, Cecilia Guariglia, Jan Wiener, and Alain Berthoz

Program

15.00-17.00: Paper Sessions

Room A: Reasoning and Argumentation

Chair: *Beno Csapo*

Discussant: *Christa Asterhan*

Elementary student nascent abilities for scientific argumentation
Loucas Louca and David Hammer

Nascent abilities for scientific inquiry in elementary science
Loucas Louca and Zacharias Zacharia

Can Tutored Problem Solving Benefit From Faded Worked-Out Examples?
Rolf Schwonke, Joerg Wittwer, Vincent Alevon, Ron Salden, Carmen Krieg, and Alexander Renkl

Effects of Feedback on the Strategic Competence of Gifted Children
Ageliki Foustana, Koen Luwel, and Lieven Verschaffel

"Knowledge and Information Awareness" for Enhancing Computer-Supported Collaborative Problem Solving by Spatially Distributed Group Members
Tanja Engelmänn and Sigmar-Olaf Tergan

Room B: Categorization

Chair: *Irini Skopeliti*

Discussant: *Ray Perez*

Computational Evidence for Two-Stage Categorization as a Process of Adjective Metaphor Comprehension
Akira Utsumi and Maki Sakamoto

Is a small apple more like an apple or more like a cherry? A study with real and modified sized objects
Valentina Bazzarin, Anna Maria Borghi, Alessia Tessari, and Roberto Nicoletti

False Memory for Analogical Inferences: An Indicator of Representational Change of the Target Text but not an Indicator of Conceptual Change of the Target Issue
Ricardo Minervino, Nicolas Oberholzer, and Alfredo Lopez Alonso

Adults differently process taxonomic and thematic semantic relations according to object kinds
Solène Kalénine and Françoise Bonthoux

Program

'Emeralds are expensive because they are rare': Plausibility of Property Explanations

Daniel Heussen and James A. Hampton

Room C: Eye and Language

Chair: *Svetlana-Lito Gerakakis*

Discussant: *Goran Hagert*

A flow-of-conversation plays a role: Examining line-of-regard of young children and adults in a discrepant labeling situation

Harumi Kobayashi and Tetsuya Yasuda

Post-Interpretive Processes Influence Interpretive Processing During Reading: Evidence from Eye Movements

Christiane Bohn and Reinhold Kliegl

Learned Attention in Language Acquisition: Blocking, Saliency, and Cue Competition

Nick Ellis

Processing Parallel Structure: Evidence from Eye-Tracking and a Computational Model

Jens Apel, Pia Knoeferle, and Matthew W. Crocker

The Effect of Phonological Parallelism in Coordination: Evidence from Eye-tracking

Amit Dubey, Frank Keller, and Patrick Sturt

17.30-18.30: Keynote Address

Room A

Chair: *Daniel Kayser*

Discussant: *Elpida Tzafestas*

For a systematic theory of expectations

Speaker: *Cristiano Castelfranchi*

Program

18.30-20.30: Poster Session 1

Room D

1. Mathematics Learning and Teaching

W1. Proportional Reasoning as a Heuristic-Based Process: In Search for Evidence in Students' Reaction Times

Ellen Gillard, Wim Van Dooren, Walter Schaeken, and Lieven Verschaffel

W2. Inhibition of Intuitive Interference by Cognitive Conflict Training: The Case of Geometrical Shapes

Ruth Stavy, Reuven Babai, Dina Tirosh, and Hanna Zilber

W3. Students' Difficulties with Algebraic Expressions Containing Literal Symbols

Konstantinos P. Christou and Stella Vosniadou

W4. Aspects of students' rational number reasoning: A conceptual change perspective

Xenia Vamvakoussi and Stella Vosniadou

W5. Neuro-Mathematics Education: Report on an International Emerging Sub-Discipline

Anthony Kelly

W6. Using animated interactive analogies for understanding the programming variable

Dimitrios Doukakis, Maria Grigoriadou, and Grammatiki Tsaganou

2. Learning and Instruction

W7. Students' Appraisals and Emotions for Interpersonal Relationships with Teachers

Georgia Stephanou

W8. Conceptions and Practices of University teachers in Various Disciplines

Louise Langevin, Gilles Raiche, Diane Leduc, Monik Bruneau, Catherine Gagnon, Nadine Talbot, and Ilia Espossos

W9. Catching eureka on the fly

Paulina Lindstrom and Agneta Gulz

W10. Learning Difficulties of Language and Cultural Minority Children: An Evaluative Approach

Maria Tzouriadou, Giorgos Barbas, Eleni Anagnostopoulou, Zoi Anagnostou, Kiriaki Antifakou, Sofia Koupidou, Sofia Papadopoulou, , Paraskeyi Roumen, and Sofia Chatzigeorgiadou

Program

W11. Construction of semiopictorial knowledge and communicational skills during picture book interactive readings in preschool: An interdisciplinary study

Christine Gamba and Anne-Christel Grau

W12. Insight Problem Solving, Fluid Intelligence, and Executive Control: A Structural Equation Modeling Approach

Boryslaw Paulewicz, Adam Chuderski, and Edward Necka

W13. Absence of Blocking in Cognitive Map Learning in Humans

Oliver Hardt and Lynn Nadel

3. Knowledge Acquisition in Science

W14. An Exploratory Study of High-Order Thinking Skills in Chemistry-Based Discourse

Selva Ranees Subramaniam

W15. Reading about Computer Cache Memory: The Effects of Text Structure in Science Learning

Evangelos Kanidis and Maria Grigoriadou

W16. Synthetic Models in Finswimming

Maria Koulianou, Stella Vosniadou, Nickos Geladas, and Konstantinos Boudolos

W17. Children's Knowledge about Consciousness: A Developmental Perspective

Nikos Makris and Dimitris Pnevmatikos

4. Language Acquisition, Gestures

W18. Inference and Reference in Language Evolution

August Fenk and Gertraud Fenk-Oczlon

W19. Towards a Unified Model of Language Acquisition

Fernand Gobet, Julian Pine, and Daniel Freudenthal

W20. Two CV syllables for one pointing gesture as an optimal ratio for jaw-arm coordination in a deictic task: a preliminary study

Amélie Rochet-Capellan, Jean-Luc Schwartz, Rafael Laboissiere, and Arturo Galvan

W21. First Language Translations in New Language Learning

Asha Smith and Michael Ramscar

W22. Semantic priming between words and iconic gestures

Paolo Bernardis and Nicoletta Caramelli

Program

W23. L2 Lexical Activation in the Bilingual Mental Lexicon: an Experimental Study
Yuliya Leshchenko

5. Computational and Formal Models

W24. Construction of Assisting Symbolic Models based on Novice Users Perception
Jean-Paul Sansonnet and David Leray

W25. Modeling diagnostic reasoning with fuzzy pattern classification
Franziska Bocklisch, Martin R. K. Baumann, and Josef F. Krems

W26. On the Implementation of Concept Structures in Fuzzy Logic
Stephan van der Waart van Gulik

W27. Human Conditional Reasoning Explained by Non-Monotonicity and Probability: An Evolutionary Account
Gerhard Schurz

W28. Between browsing of search, A new model for navigating through large documents
Thibault Mondary, Amanda Bouffier, and Adeline Nazarenko

W29. An Approach to the Semantics of Analogical Relations
Helmar Gust, Ulf Krumnack, Kai-Uwe Kühnberger, and Angela Schwering

W30. An Attempt to Rebuild Claude Bernard's Scientific Steps
Jean-Gabriel Ganascia

W31. Analogical Reasoning with SMT and HDTP
Angela Schwering, Ulf Krumnack, Kai-Uwe Kuehnberger, and Helmar Gust

6. Machine Learning and Categorization

W32. Unsupervised learning of an embodied representation for action selection
Aapo Hyvarinen

W33. A Traffic Forecast Neurocomputational Behavioural Model
Spyridon Revithis

W34. Automatic Classification of Instantaneous Cognitive States
Rafael Ramirez and Montserrat Puiggros

Program

W35. A Neural Network Model for Explaining the Asymmetries between Linguistic Production and Linguistic Comprehension
Marco Mirolli, Federico Cecconi, and Domenico Parisi

W36. Frequency trajectory effects in human and artificial neural systems with different input-output mappings
Martial Mermillod, Patrick Bonin, Sebastien Roux, Ludovic Ferrand, and Alain Meot

W37. A Sampling Explanation of Stereotype Formation
Jing Qian and Garcia-Retamero Rocio

W38. Semi-supervised category learning in an information integration task
Katleen Vandist, Maarten De Schryver, and Yves Rosseel

7. Human Categorisation & Analogy

W39. The Effects of Prior Knowledge on Perceptual Classification
Lewis Bott

W40. Categorization of Substances in Relation to Explanations of Changes in State of Matter
Ourania Gikopoulou and Stella Vosniadou

W41. Level of representation and semantic distance: Rating author personality from texts
Alastair Gill and Robert French

W42. Solving Systems of Equations: A Case Study in Analogical Problem Solving
Svetlana Polushkina, Kai-Uwe Kuehnberger, and Helmar Gust

W43. How many exemplars do we need? A replication of Nosofsky, Clark and Shin's (1989) "Rules and exemplars in categorization, identification and recognition"
Maarten De Schryver, Katleen Vandist, and Yves Rosseel

W44. Young children's recognition of commonalities between animals and plants: revisiting the role of human-based inference
Christelle Declercq and Florence Labrell

W45. Pragmatic understanding of hyperbole through interpreting proverbs and metonymies
Afroditi Papaioannou

Program

Thursday, May 24

9.00-10.00: Keynote Address

Room A

Chair: *Stella Vosniadou*

Discussant: *Boicho Kokinov*

Gut feelings: the intelligence of the unconscious

Speaker: Gerd Gigerenzer

10.00-11.30: Paper Sessions

Room A: Conceptual Change

Chair: *Nikos Makris*

Discussant: *Rochel Gelman*

Conceptual Changes in the Acquisition of Fractional Number Understanding

Judi Humberstone and Robert Reeve

Conceptual Change in Evolutionary Theory: The Effects of Scripted Argumentative Monologue in Peer Settings

Christa S.C. Asterhan and Baruch B. Schwarz

Conceptual Change in Cognitive Science Education - towards Understanding and Supporting Multidisciplinary Learning

Otto Lappi

A Role for Personal Epistemology in Conceptual Change in Physics

Christina Stathopoulou and Stella Vosniadou

Room B: Language Acquisition

Chair: *Tatiana Chernigovskaya*

Discussant: *Fernand Gobet*

Implementing the Subset Principle in Syntax Acquisition: Lattice-Based Models

Janet Fodor, William Sakas, and Arthur Hoskey

Program

Bottom-Up Learning of Phonemes: A Computational Study
Rozenn Le Calvez, Sharon Peperkamp, and Emmanuel Dupoux

The bilingual phono-translation effect: Facilitation or inhibition depends on second-language proficiency
Winston Goh and Meijie Chen

Room C: Reasoning & Cooperation

Chair: *Richard Young*

Discussant: *Fabio Paglieri*

Effects of other-generated hypothesis on hypothesis revision
Sachiko Kiyokawa, Kazuhiro Ueda, and Takeshi Okada

Cooperation through communication: Reciprocal exchange of relevant information among humans involved in strategic interaction
Francesca Giardini and Gennaro Di Tosto

Is Cooperation in the Iterated Prisoner's Dilemma Game Due to Social Interaction?
Maurice Grinberg and Evgenia Hristova

Computational Model of Cooperative Behavior: Adaptive Regulation of Goals and Behavior
Yugo Nagata, Satoru Ishikawa, Takashi Omori, and Koji Morikawa

12.00-13.30: Symposia – Paper Session

Room A: Symposium

Chair: *Marie Coppola*

Thinking With and Without Language
Marie Coppola, Susan Goldin-Meadow, Elizabet Spaepen, Dedre Gentner, Asli Ozyurek, Daniel B. M. Haun, Christian J. Rapold, Gabriele Janzen, and Stephen Levinson

Program

Room B: Invited Symposium

Chair: *Konstantinos Moutoussis*

Discussant: *Irini Skaliora*

Consciousness and the Brain

Konstantinos Moutoussis, Semir Zeki, Lars Muckli, and John-Dylan Haynes

Room C: Paper Session

Emotion

Chair: *Katerina Ligovanli*

Discussant: *Elpida Tzafestas*

Conscious and Unconscious Processing of Emotional Words

Maurits Van den Noort, Peggy Bosch, and Kenneth Hugdahl

Differential Effect of Spectral Detail in Perceiving Identity, Emotion and Intelligible Speech from Voice: Exploring the Face Analogy

Alexandros Kafkas and Sophie Scott

Recognizing emotions from faces: Do we look for specific facial features?

Paolo Viviani and Chiara Fiorentini

Human Recognition of Faces and PCA based Machine Recognition: The Effect of Distinctiveness

Chandrasiri Naiwala Pathirannehelage, Ryuta Suzuki, Nobuyuki Watanabe, Hiroyuki Yoshida, Hiroshi Yamada, and Hiroshi Harashima

14.30-17.30: Symposium

Room A

Chair: *Cristiano Castelfranchi*

Discussants: *Julian Kiverstein, Joshua Skewes, & Tiziana Zalla*

Metacognition, Mindreading and Self-consciousness

Joëlle Proust, Tjeerd Jellema, Fabio Paglieri / ESF Panel

Program

15.00 – 17.00: Symposium

Room B

Chair: *Manos Tsakiris*

Discussant: *Katerina Fotopoulou*

The body: from experience to representation

*Andrea Serino, Katerina Fotopoulou, Manos Tsakiris, and
Frederique de Vignemont*

16.30 – 17.30: Special Session

Room C

Chair: *Stella Vosniadou*

Development in Cognitive Science in Asia

Speaker: *Naomi Miyake*

17.30-18.30: Keynote Address

Room A

Chair: *Georgios Kouroupetroglou*

Discussant: *Robert French*

Using information theory to better understand associative learning

Speaker: *Randy Gallistel*

18.30 – 20.30: Poster Session 2

Room D

8. Perception of Action and of Speech

T1. Motor Memory: Movement- and Position-Specific Sequence
Representations

Elena Bobrova and Vsevolod Lyakhovetskii

T2. Perception of Action: Influence of the Presence or Absence
of Goal in the Interference between Observed and Executed
Movements

Cedric Bouquet and Thomas Shipley

Program

T3. Cognitive Structure of Phonological Processes and Sound Change Transitions

Ching-Pong Au

T4. Rapid Apprehension of Gist in Action Scenes

Reinhild Glanemann, Jens Boelte, Pienie Zwitserlood, and Christian Dobel

T5. Cognitive Reconstruction of Reversed Speech in Normal and Dyslexic Adults

Claire Grataloup, Michel Hoen, Fanny Meunier, François Pellegrino, Evelyne Veuillet, and Lionel Collet

T6. Investigating the Emergence of Speech Communication - A Study on Infants' Ability to Predict Phonetic Information

Eva Klintfors, Francisco Lacerda, and Ellen Marklund

9. Perception of Space

T7. Role of sensorimotor activity in spatial perception

Eve Dupierriex, Théophile Ohlmann, and Sylvie Chokron

T8. Activation Followed by Suppression in the Simon Task: Influence of an Accessory Peripheral Signal

Kathleen Maetens and Eric Soetens

T9. A perceptual adaptation account of preview effects in the Eriksen flanker task

Eddy Davelaar and David Huber

T10. Weighing-Up Perception-Action Dissociation: Does Grasping Object Mass Rely On Perception?

Martin Edwards and Daniel Eastough

T11. Seeing It Your Way: Cognitive Processes Underlying Visual Perspective Taking

Dana Samson, Ian A. Apperly, Jason J. Braithwaite, and Benjamin J. Andrews

T12. Quantitative Estimation of illusionary band on the Muller-Lyer illusion

Shusaku Nomura

T13. Simon Effect with Central Stimuli: A Time-Course Analysis

Antonio Pellicano, Luisa Lugli, Giulia Baroni, and Roberto Nicoletti

Program

10. Technology-Based Instruction Design

T14. A Visuo-Haptic Device - Telemaque - Increases Kindergarten Children's Handwriting Acquisition

Anne Hillairet de Boisferon, Richard Palluel-Germain, Florence Bara, Edouard Gentaz, Bernard Hennion, and Philippe Gouagout

T15. HOMER: A Design for the Development of Acoustical-Haptic Representations of Document Meta-Data for Use by Persons with Vision Loss

Kalliopi Ikospentaki, Stella Vosniadou, Dimitris Tsonos, and George Kouroupetroglou

T16. Integrating Cognitive and Emotional Parameters into Designing Adaptive Hypermedia Environments

Zacharias Lekkas, Nick Tsianos, Panagiotis Germanakos, and Kostas Mourlas

T17. Cognitive Style and Graphical Interpretation

Katherine McGuire, Amber LeBlanc, Aren Hunter, and Lisa Best

11. Linguistics

T18. Frequency and Interpretation of Figurative Language in Children's Literature: Match or Mismatch?

Sara Verbrugge

T19. Thematic difficulty causes processing cost for sentence comprehension

Satoru Yokoyama, Masatoshi Koizumi, Jungho Kim, Noriaki Yusa, Kei Yoshimoto, and Ryuta Kawashima

T20. Dimension and Quality Concepts in Synaesthetic Metaphors

Hakan Beseoglu and Jens Fleischhauer

T21. Toward more general models on relative clause processing

Claire Delle Luche, Frédérique Gayraud, Bruno Martinie, and Fanny Meunier

T22. Construction-Driven Language Processing

Jerry Ball

12. Language Comprehension

T23. In Search of the Frog's Tail: Investigating the Time Course of Conceptual Knowledge Activation

Phil Maguire, Rebecca Maguire, and Arthur Cater

Program

T24. What triggers early decomposition of morphologically complex words?

Delphine Fabre, Liliane Schoot, and Fanny Meunier

T25. Conversational precedents and lexical ambiguity: When consistency is not enough

Edmundo Kronmuller and Dale Barr

T26. Are Scalar Inferences Local Processes?

Bart Geurts and Nausicaa Pouscoulous

T27. Word order and Type of relation effects in Conceptual Combination during the early school years

Sandra Jhean-Larose and Guy Denhière

13. Planning and Spatial Cognition

T28. Cognitive Modelling of Human Planning and Human Interaction

Alexandre Pauchet, Nathalie Chaignaud, and Amal El Fallah Seghrouchni

T29. Path planning under spatial uncertainty

Matthieu Lafon, Jan M. Wiener, and Alain Berthoz

T30. The cognitive mechanisms that underlie the centre of Piraeus, Greece, or which are the elements of an old city that construct its mental map?

Eirini Rafailaki

T31. Interactivist Navigation

Jean-Luc Basille, Jean-Christophe Buisson, and Jean-Charles Quinton

T32. Advancing the Understanding of Spatial Cognition by Considering Control

Holger Schultheis

14. Cognitive Models

T33. Extending ACT-R's Memory Capabilities

Holger Schultheis, Shane Lile, and Thomas Barkowsky

T34. What's in a Mental Model? On Conceptual Imagery in Reasoning

Goran Hagert

T35. Causal and counterfactual reasoning match and type of causal chain

William Jimenez-Leal and Nick Chater

Program

T36. Functionalism, Computational Complexity and Design Stance

Francesco Gagliardi

T37. Attitudes and Content. The Non-Conceptual but Cognitive Content of Attitudes

Manuel Liz

T38. Some Humean Doubts about the Cognitive/Non-Cognitive Divide. Kant, Pragmatism, Sellars, Brandom, and McDowell

Manuel Liz

Program

Friday, May 25

9.00-10.00: Keynote Address

Room A

Chair: *Daniel Kayser*

Discussant: *Gerhard Strube*

Language activity as a representational activity: typological approaches to comparison

Speaker: *Catherine Fuchs*

10.00-11.30: Paper Sessions

Room A: Knowledge Construction and Change

Chair: *Xenia Vamvakoussi*

Discussant: *Nancy Nersessian*

How material culture extends the mind: mental time-travel and the invention of the calendar

Helen De Cruz and Johan De Smedt

Knowledge Construction with Multiple External Representations: What Eye-Movements Can Tell Us

Rolf Schwonke, Alexander Renkl, and Kirsten Berthold

Reasoning with External Representations in Elementary Astronomy

Irini Skopeliti and Stella Vosniadou

Adaptive Expertise as Knowledge Building in Science Teachers' Problem Solving

Valerie Crawford

Modeling Human Expertise for Instructional Design: Applications to Landmine Detection

Jim Staszewski

Program

Room B: Philosophical Issues

Chair: *Aristides Hatzis*

Discussant: *Philip Kargopoulos*

The Limits of Mechanistic Explanation in Neurocognitive Sciences

Anna-Mari Rusanen and Otto Lappi

Free will and the power of veto: convergent evidence from decision-making

Alexandre Linhares

Normative rationality and the is-ought fallacy

Shira Elqayam

The case of Hyper-intensionality in Two-Dimensional Modal Semantics: A false problem due to a misunderstanding

Alexandra Arapinis

Room C: Morphology

Chair: *Janet Fodor*

Discussant: *Javiez Sainz*

Are Long Words Holistically Processed? De-individuation Effects of Embedded CVC Clusters

Lile Jia and Winston D. Goh

The Development of Lexical Knowledge: Toward a Model of the Acquisition of Lexical Gender in French

Harmony Marchal, Maryse Bianco, Philippe Dessus, and Benoît Lemaire

Role of surface frequency on morphological family organization

Delphine Fabre, Michel Hoen, and Fanny Meunier

Implicit Cues to Grammatical Category in the Orthography of English

Joanne Arciuli and Padraic Monaghan

Program

12.00-13.30: Invited Symposia

Room A: Invited Symposium

Chairs: *Erik De Corte & Stella Vosniadou*

Discussant: *Naomi Miyake*

Can design research contribute to bridge the gap between theory and educational practice?

Erik De Corte, Stella Vosniadou, Beno Csapo, Heinz Mandl, Robin Stark, and Naomi Miyake

Room B: Invited Symposium

Chairs: *Hedderick van Rijn, Stefan L. Frank*

Computational psycholinguistics beyond words

Hedderick van Rijn, Stefan L. Frank, Amit Dubey, Marshall R. Mayberry, and Simone Sprenger

15.00-17.00: Paper Sessions

Room A: Reasoning and Uncertainty

Chair: *Naomi Miyake*

Discussant: *Gerd Gigerenzer*

Understanding Surprise: Can Less Likely Events Be Less Surprising?

Rebecca Maguire, Phil Maguire, and Mark Keane

Either greedy or well informed: The reward maximization - unbiased evaluation trade-off

Helena Matute, Miguel A. Vadillo, Fernando Blanco, and Serban C. Musca

Individual Differences in How Much People are Affected by Irrelevant and Misleading Information

Magne Jorgensen

Estimating the Probability of Negative Events

Adam Harris, Adam Corner, and Ulrike Hahn

Testing a Causal Attribution account of the Conjunction Fallacy

Fintan Costello

Program

Room B: Perception

Chair: *Margaret Boden*

Discussant: *Konstantinos Moutoussis*

Does Attentional Modulation of Early Vision Entail the Cognitive Penetrability of Perception?

Athanasios Raftopoulos

Biological Movements Are Detected Faster Than Artificial Ones

Christelle Aymoz and Paolo Viviani

Perceptual Learning vs. Context-Sensitive Retrieval: Why People Judge Green Lines Being Shorter/Longer Than the Red Lines with the Same Length? Do They Perceive Them Differently or Do They Retrieve a Biased Set of Alternatives in Their Comparison Set.

Penka Hristova and Boicho Kokinov

A Neural Model of Global Visual Saliency

Frank van der Velde and Marc de Kamps

Investigating the Factors that Influence the Temporal Perception of Complex Audiovisual Events

Argiro Vatakis and Charles Spence

Room C: Learning

Chair: *Paul Losiewicz*

A Model of Flexible Control in Task Switching

Adam Chuderski

A Generalization of Hebbian Learning in Perceptual and Conceptual Categorization

Harry Foundalis and Maricarmen Martinez

An Unsupervised, Dual-Network Connectionist Model of Rule Emergence in Category Learning

Rosemary Cowell and Robert French

Behavioural priors: Learning to search efficiently in action planning

Aapo Hyvarinen

Evidencing Implicit Sequence Learning through the Process Dissociation Procedure: A Case against Previous Conclusions

Serban C. Musca, Julien Barra, Martial Mermillod, and Thierry Atzeni

Program

17.30-18.30: Keynote Address

Room A

Chair: *Bruno Bara*

Discussant: *Matti Sintonen*

Model-based reasoning in distributed cognitive-cultural systems:
studies of interdisciplinary research labs

Nancy Nersessian

18.30-20.30: Poster Session 3

Room D

15. Decision Making

F1. Grounding a Cognitive Modelling Approach for Criminal Behaviour

Tibor Bosse, Charlotte Gerritsen, and Jan Treur

F2. How Children reason about probabilities: the Conjunction Fallacy and the Framing Effect

Gabriella Passerini and Valentina Sala

F3. The Dilution Effect in Legal Judgments by Individuals

Valentina Sala and Gabriella Passerini

F4. Decisions from Experience under Comprehensive Sampling

Christoph Ungemach, Neil Stewart, and Nick Chater

F5. Commitment to Explicitly Reported Choices: Evidence in Decision Making under Uncertainty

Giovanni Pezzulo

16. Face Recognition

F6. The effect of spatial frequency on the perception of facial gender

Tim Gale, Samar Buchala, Neil Davey, and Ray Frank

F7. Meeting a Virtual Character: Effects of Characters' Emotional Expression on Eye Movements and Facial EMG of Human Observers

Franziska Schrammel, Sven-Thomas Graupner, Sebastian Pannasch, and Boris M. Velichkovsky

Program

F8. Cognitive, Emotional, and Physiological Components of Emotional Stroop using Associative Conditioning

Anne Richards, Isabelle Blanchette, Victoria Hamilton, and Anastasia Lavda

F9. Does The Face Fit The Facts? Testing Three Accounts of Age of Acquisition Effects

James Smith-Spark, Viv Moore, and Tim Valentine

F10. Political Semantic Concepts Investigated through Taylor's Paradigm

Mariangela Grimaudo and Stefano Boca

F11. Categorical Perception of Emotions in Healthy People and Schizophrenics

Paola Casati and Paolo Viviani

F12. Deficits in Facial Affect Recognition in Bimodal Context in Greek Patients with Schizophrenia

Vassiliki Psarra, Katerina Ligovanli, Nikolaos Dimopoulos, and Athanase Tzavaras

F13. Context Effects on Facial Emotion Attribution: A replication of Kuleshov Experiment

Katerina Ligovanli, Athanase Tzavaras, and Stella Vosniadou

17. Attention and Workload I

F14. Visual guidance and the impact of interruption during problem solving: Interface issues embedded in Cognitive Load Theory

Christof van Nimwegen and Herre van Oostendorp

F15. The Expression but not Learning of Implicit Sequence Knowledge is enhanced by the Controlled Allocation of Attention

Natacha Deroost, Inge Zeeuws, and Eric Soetens

F16. Attention Allocation in Learning an XOR Classification Task

James Corter, Toshihiko Matsuka, and Arthur Markman

F17. Effects of task switching policy on interruption handling in text editing

Boris Velichkovsky, Maria Kapitsa, and Irina Blinnikova

F18. Models for the Evaluation of Workload in a Multimodal Interaction Task: NASA-TLX vs. Workload Profile

Dominique Fréard, Eric Jamet, Gérard Poulain, Olivier Le Bohec, and Valérie Bothere

18. Attention and Workload II

F19. Head-Up Displays Reduce the Effects of Divided Visual Attention in Driving

Valentinos Zachariou, Marios Avraamides, and Georgia Panayiotou

F20. Influence of Activity in Episodic Memory, Use of Virtual Environment

Gaen Plancher, Valerie Gyselinck, Serge Nicolas, and Pascale Piolino

F21. Vigilance decrement: boredom or cognitive fatigue?

Nathalie Pattyn, David Henderickx, and Eric Soetens

F22. Cognitive stress and sleep quality

Gabriella Pravettoni, Salvatore N. Leotta, and Claudio Lucchiari

F23. Cognitive heuristics in multitasking performance

Juergen Kiefer, Michael Schulz, Dirk Schulze-Kissing, and Leon Urbas

F24. More Focal Attention on the Impossible: An Eye Movement Study with Possible and Impossible Objects

Fiona Mulvey, Stuart Smith, Aidan Moran, and Boris Velichkovsky

F25. On the relationship of eye position and experienced focus of visual work under localisation, identification and categorisation tasks

Jens R. Helmert, Sebastian Pannasch, and Boris M. Velichkovsky

19. Context and Reasoning

F26. Temporal Factorisation and Realisation in Cognitive Dynamics and Beyond

Jan Treur

F27. Training in Inconsistency Checking and Elaboration to Facilitate Verbal Insight Problem Solving

Afia Ahmed and John Partick

F28. The influence of the nature and the causal strength of contextual information on the temporal course of predictive inferences

Sonia Galletti and Isabelle Tapiero

F29. Sensitivity of primacy effect to interactions

Sylvie Huet and Guillaume Deffuant

Program

F30. False Memories in the DRM paradigm: Role of Suggestion and Context

Gaen Plancher, Serge Nicolas, and Pascale Piolino

F31. Temporal Differentiation of Attentional Processes

Tibor Bosse, Peter-Paul van Maanen, and Jan Treur

20. Language Dysfunctions

F32. Lateralized Object Naming: Effects of Image Agreement, Name Agreement, Age of Acquisition and Animacy

Armina Janyan

F33. Acquisition of Literacy skills in children with Specific Language Impairment: A Longitudinal Investigation in French

Filio Zourou, Jean Ecalle, and Annie Magnan

F34. Lexicality and Frequency Effects in Italian Developmental Dyslexia

Despina Paizi, Maria De Luca, Pierluigi Zoccolotti, and Cristina Burani

F35. Effects of Sentence Context on Lexical Ambiguity Resolution in Patients with Schizophrenia

Christina Andreou, Kyrana Tsapkini, and Athanasios Karavatos

F36. Length effects on reaction times and ocular fixations in reading: A study on French dyslexic and skilled readers

Marie Lallier, Delphine Lassus, and Sylviane Valdois

F37. Mental Verbs and Memory Functioning in Children with Language Difficulties and Typically Developing Children: Structural Similarities and Differences

George Spanoudis and Demetrios Natsopoulos

F38. Temporal Modified Speech Perception in Dyslexia

Caroline Jacquier and Fanny Meunier

21. Neurocognition

F39. Event-related brain potentials elicited by verbal mood anomalies in Spanish

Josep Demestre and José E. Garcia-Albea

F40. Semantic priming effects on event-related potentials for living and nonliving categories

Olga Marchenko and Boris Bezdenezhnykh

Program

F41. Differential cortical activity for visual stimuli at near and far space: a MEG study

Areti Tzelepi, Stella Xanthi, Aggelos Amditis, Stella Vosniadou, and Zoi Kapoula

F42. The Effect of Feedback Type on Brain Activation: Individual Differences in Achievement Goals

Sung-il Kim and Su-Young Hwang

F43. Top-down attentional modulation of visual neglect following right hemisphere stroke

Margarita Sarri and Jon Driver

F44. Graphical Perception and Mental Imagery: An Electrophysiological Examination

Lisa Best, Aren Hunter, and Brandie Stewart

F45. Memory and ERP Effects of Distance in Semantic Space

Petter Kallioinen and Sverker Sikström

F46. Women are Right: A Large-Scale Meta-Analysis on the Sex Difference in Handedness

Marietta Papadatou-Pastou, Maryanne Martin, and Marcus Munafo

Program

Saturday, May 26

9.00-10.00: Keynote Address

Room A

Chair: Xenia Vamvakoussi

Discussant: Stella Vosniadou

Early cognitive development and beyond

Speaker: Rochel Gelman

10.00-11.30: Paper Sessions

Room A: Analogy

Chair: Maurice Grinberg

Discussant: Fintan Costello

Modeling Top-Down Perception and Analogical Transfer with
Single Anticipatory Mechanism

*Georgi Petkov, Kiril Kiryazov, Maurice Grinberg, and Boicho
Kokinov*

Relational Similarity in Identity Relation: The Role of Language

Stella Christie and Dedre Gentner

Does the Family Analogy Help Young Children To Do Relational
Mapping?

Milena Mutafchieva and Boicho Kokinov

Analogy and Cognitive Style in the History of Invention: Inventor
Independence and Closeness of Compared Domains

Lillian Hoddeson

Room B: Semantics and Pragmatics

Chair: Maria Koulianou

Discussant: Catherine Fuchs

A corpus analysis of conceptual combination

Phil Maguire, Edward Wisniewski, and Gert Storms

Program

A Computational Usage-Based Model for Learning General Properties of Semantic Roles

Afra Alishahi and Suzanne Stevenson

"Is There Any Coffee Left, Boss?" Face and Utility Concerns in the Interpretation of Ambiguous Questions/Requests

Virginie Demeure, Jean-François Bonnefon, and Eric Raufaste

Time flew by: Reading about movement of different speeds distorts people's perceptions of time

Louise Connell, Lucy Rayne, and Dermot Lynott

Room C: Computer & Formal Models

Chair: *Bruno Bara*

Discussant: *Richard Young*

A Recurrent Connectionist Model of Retrospective Cue Interaction in Humans

Frank Van Overwalle

Simplifying the Development and the Analysis of Cognitive Models

Marcus Heinath, Jeronimo Dzaack, Andre Wiesner, and Leon Urbas

Emotion Elicitation in an Empathic Virtual Dialog Agent

Magalie Ochs, Catherine Pelachaud, and David Sadek

Motivated, Emotional Agents in the MicroPsi Framework

Joscha Bach

12.00-13.30: Invited Symposia & Special Session

Room A: Invited Symposium

Chairs: *Boicho Kokinov & Dedre Gentner*

Discussant: *Vladimir Sloutsky*

Analogy-making: resolved and unresolved mysteries

Boicho Kokinov, Dedre Gentner, Stella Christie, Leonidas, A. Doulas, Kenneth Kurtz, and Robert French

Program

Room B: Invited Symposium

Chair: *Tatiana Chernigovskaya*

Language and Brain

Tatiana Chernigovskaya, Kenneth Hugdahl, Inger Moen, Svyatoslav Medvedev, and Jussi Niemi

Room C: Special Session

Chair: *Daniel Kayser*

Funding Agencies Panel

*Hans Georg Stork, European Union
Charalambos Savakis, European Research Council
Paul Losiewicz, European Office of Aerospace
Robert Kang, European Office of Aerospace
Ray Perez, US Office of Naval Research*

15.00-17.00: Paper Sessions

Room A: Memory

Chair: *Alexandra Ekonomou*

Discussant: *Randy Gallistel*

Updating Episodic Memories: A Special Role of Spatial Context
Almut Hupbach, Rebecca Gomez, Oliver Hardt, and Lynn Nadel

The Role of Working Memory in the Use of Numerosity Judgment Strategies
Koen Luwel, Valérie Camos, and Lieven Verschaffel

A Memory Account of Children's Failure to Generalize Novel Names to Novel Instances and Novel Scenes
Jean-Pierre Thibaut

The Impact of Inhibition Control on Working Memory in Children with SLI
Klara Marton and Lyudmyla Kelmenson

Inattentive Blindness: An Investigation into the Effects of Working Memory Capacity and Processing Speed - An Individual Differences Approach
Emily Hannon and Anne Richards

Program

Room B: Neurocognition

Chair: *Athanassios Protopapas*

Discussant: *Athanassios Protopapas*

Do implicit learning abilities depend on the type of material to process?
A study on children with and without dyslexia
Aurélie Simoes and Pierre Largy

Effects of Depression on Neurocognitive Performance in Different
Stages of Parkinson's Disease
*Lambros Messinis, Epameinondas Lyros, and Panagiotis
Papathanasopoulos*

Consequences of genetically induced changes in neuronal morphology
for information processing at the single neuron level
Nikos Green and Ger Ramakers

Brain Correlates of Syllable and Non-Syllable-Based Word Parsing
Javier S. Sainz and Ruben Garcia-Zurdo

Is sidedness influenced by action directionality?
Alessia Tessari, Giovanni Ottoboni, and Valentina Bazzarin Room

Room C: Models and Representations

Chair: *Maria Grigoriadou*

Amodal Perception: Access or Visualization?
Bence Nanay

Internal Models and Transfer of Learning in Pursuit Tracking
Task
Satoshi Kobori and Patrick Haggard

Path choice heuristics for navigation related to mental
representations of a building
*Simon J. Buechner, Christoph Hoelscher, and Gerhard
Strube*

Characteristics of diagrammatic reasoning
Catherine Recanati

Imagery and the Interpretation of Ambiguous Noun-Noun
Combinations
James Hampton, Dyonne Francis, and George Robson

Program

17.30-18.30: Keynote Address

Room A

Chair: *Stathis Psillos*

Discussant: *Peter Gardenfors*

Against Darwinism

Speaker: *Jerry Fodor*

18.30-20.30: Room A

Closing Session

Chairs: *Stella Vosniadou & Daniel Kayser*

Discussion on the Future of Cognitive Science

Chair: *Richard Young*

Cristiano Castelfranchi, Italy

Tatiana Chernigovskaya, Russia,

Gerd Gigerenzer, Germany

Daniel Kayser, France

Boicho Kokinov, Bulgaria

Naomi Miyake, Japan

Nancy Nersessian, U.S.A.

Gerhard Strube, Germany

Hedderik van Rijn, The Netherlands

Stella Vosniadou, Greece

Richard Young, U.K.