

NCPW11 Program

Oxford, Wednesday 16th to Friday 18th, July 2008

The conference will be held in the Department of Experimental Psychology of the University of Oxford. The social event include a pre-conference reception at The Queen's College on Tuesday evening and a dinner at Brasserie Blanc on Thursday evening. The poster session takes place on Wednesday, however the poster will be displayed throughout the conference.

Tuesday, July 15th

6pm-7pm

Pre-conference reception at The Queen's College

Wednesday, July 16th

Embedded Cognition

9am-9.30am	Klein	Understanding Minimal Communication Using Empathy
9.30am-10am	Caligiore, Borghi, Parisi & Baldassarre	Affordances and Compatibility Effects: A Neural-Network Computational Model
10am-10.30am	Boehme & Heinke	A Computational Model for Action-Guided Visual Attention

10.30am-11am Coffee Break

Associative Memory

11am-11.30am	Bush, Philippides, Husbands & O'Shea	STDP and Attractor Network Models of Associative Learning
11.30am-12am	Coward	Management of Neocortex Resources as the Primary Role of the Hippocampal System
12am-12.30am	Knoblauch	The role of silent synapses and structural plasticity for memory and amnesia in a model of cortico-hippocampal interplay

12.30am-2pm Lunch

2pm-3pm **Poster Session** (see last page)

Concepts

3pm-3.30pm	Honkela & Lindh-Knuutila	Comparison of Self-Organized and Bayesian Models of Concept Formation
3.30pm-4pm	Westermann & Mareschal	Modelling the Transition from Perceptual to Conceptual Categorization

4pm-4.30pm Coffee Break

4.30pm-5pm	Lipinski & Spencer	Towards the Integration of Linguistic and Non-Linguistic Spatial Cognition: A Dynamic Field Theory Approach
5pm-5.30pm	Farkas & Pokorný	Investigating systematicity in the linear RAAM neural network

Demonstration

5.30pm-6pm	Ruh	Introducing OXlearn: a Matlab based simulation tool to succeed good old t-learn
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Thursday, July 17th

Language

9am-9.30am	Nyamapfene	An Intention Driven Model of Early Child Language Acquisition
9.30am-10am	Garagnani, Shtyrov, Kujala, Wennekers & Pulvermüller	Neurocomputational and neurophysiological studies of brain interactions of language and attention
10am-10.30am	Fitz & Chang	Syntactic generalization in a connectionist model of language production
10.30am-11am	Coffee Break	
11am-11.30am	Pagliuca & Monaghan	DANTE++: Connectionist Model for Reading Polysyllabic Words in Italian
11.30am-12am	Ruh & Westermann	Simulating German Verb Inflection with a Constructivist Neural Network
12am-12.30am	Mayor & Plunkett	Generalisation of word-object associations: a modelling account
12.30am-1pm	Monaghan & Nazir	Modelling sensory integration and embodied cognition in word naming
1pm-2.30pm	Lunch	

Learning and Development

2.30pm-3pm	Thomas	Competition as a mechanism for sensitive periods in connectionist models of development
3pm-3.30pm	Richardson & Thomas	Trajectories of Development in Recovering Self-Organising Feature Maps
3.30pm-4pm	Robinson & Bullinaria	Neuroevolution of Auto-Teaching Architectures
4pm-4.30pm	Coffee Break	

Invited Speaker

4.30pm-5.30pm	David Plaut	Cognitive and Neural Mechanisms of Face and Word Processing: Common Principles
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Dinner

7.30pm	Conference dinner at Brasserie Blanc
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Friday, July 18th

Sensory Processing

9am-9.30am	Mermillod, Alleysson, Dubois, Musca, Barra, Atzeni, Palluel & Marendaz	Can a biologically inspired model of computer vision with drastic dimensional reduction yield to better performance than direct pixel coding for a neural network classifier?
9.30am-10am	Morse	Neural Models of Prediction and Sustained Inattentional Blindness
10am-10.30am	Eirini, Humphreys & Allen	Decomposition of neural circuits of human attention using model-based analysis: sSoTS model application to fMRI data
10.30am-11am	Coffee Break	

High-level Cognition

11am-11.30am	Hass, Blaschke, Rammsayer & Herrmann	Timing errors and optimal temporal processing with spiking neural networks
11.30am-12am	Christodoulou & Cleanthous	On the psychology and modelling of self-control
12am-12.30am	Davelaar	A neurocomputational hypothesis regarding retrospective confidence judgments
12.30am-1pm	Lorincz	Factorial Architecture for Cognition
1pm-2pm	Lunch	

Poster Session

Abdallah & Plumbley	Information dynamics and the perception of temporal structure
Calcraft, Adams & Davey	Connection strategy and performance in sparsely-connected 2D associative memory models with non-random images
Dietz	The mirror effect in recognition memory holds for stimulus-extrinsic variables
Musca & Bocklisch	Explanation change in abductive reasoning in view of anomalous data: Is a within- or a between-category change more probable?
Pitti & Kuniyoshi	Mirroring Maps and Action Representation through Embodied Interactions
Shenoy, Davey, Frank & Gale	Representation and Classification of facial expression in a modular computational model
Stafford	What use are computational models of cognitive processes?
Thomas & Ronald	Modeling polygenic effects in individual variation in large populations: a simulated twin study of past tense acquisition
Usher, Davelaar, Bertella, Seevarajah & Foli	A computational theory of contextual processing and active memory in Schizophrenia
Wichert	Image categorization and retrieval