



Computational Models of Cognitive Processes: 21 (Progress in Neural Processing)

Julien Mayor

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Computational Models of Cognitive Processes collects refereed versions of papers presented at the 13th Neural Computation and Psychology Workshop (NCPW13) that took place July 2012, in San Sebastian (Spain). This workshop series is a well-established and unique forum that brings together researchers from such diverse disciplines as artificial intelligence, cognitive science, computer science, neurobiology, philosophy and psychology to discuss their latest work on models of cognitive processes.

Contents:

• **Language:**

- Modelling Language — Vision Interactions in the Hub and Spoke Framework (*A C Smith, P Monaghan and F Huettig*)
- Modelling Letter Perception: The Effect of Supervision and Top-Down Information on Simulated Reaction Times (*M Klein, S Frank, S Madec and J Grainger*)
- Encoding Words into a Potts Attractor Network (*S Pirmoradian and A Treves*)
- Unexpected Predictability in the Hawaiian Passive (*? Parker Jones and J Mayor*)
- Difference Between Spoken and Written Language Based on Zipf's Law Analysis (*J S Kim, C Y Lee and B T Zhang*)
- Reading Aloud is Quicker than Reading Silently: A Study in the Japanese Language Demonstrating the Enhancement of Cognitive Processing by Action (*H-F Yanai, T Konno and A Enjoji*)

• **Development:**

- Testing a Dynamic Neural Field Model of Children's Category Labelling (*K E Twomey and J S Horst*)
- Theoretical and Computational Limitations in Simulating 3- to 4-Month-Old Infants' Categorization Processes (*M Mermillod, N Vermeulen, G Kaminsky, E Gentaz and P Bonin*)
- Reinforcement-Modulated Self-Organization in Infant Motor Speech Learning (*A S Warlaumont*)
- A Computational Model of the Headturn Preference Procedure: Design, Challenges, and Insights (*C Bergmann, L Ten Bosch and L Boves*)
- Right Otitis Media in Early Childhood and Language Development: An ERP Study (*M F Alonso, P Uclés and P Saz*)

• **High-Level Cognition:**

- The Influence of Implementation on “Hub” Models of Semantic Cognition (*O Guest, R P Cooper and E J Davelaar*)
- Hierarchical Structure in Prefrontal Cortex Improves Performance at Abstract Tasks (*R Tukker, A C Van Rossum, S Frank and W F G Haselager*)
- Interactive Activation Networks for Modelling Problem Solving (*P Monaghan, T Ormerod and U N Sio*)
- On Observational Learning of Hierarchies in Sequential Tasks: A Dynamic Neural Field Model (*E Sousa, W Erlhagen and E Bicho*)
- Knowing When to Quit on Unlearnable Problems: Another Step Towards Autonomous Learning (*T R Shultz and E Doty*)
- A Conflict/Control-Loop Hypothesis of Hemispheric Brain Reserve Capacity (*N Rendell and E J Davelaar*)

• **Action and Emotion:**

- Modeling the Actor-Critic Architecture by Combining Recent Work in Reservoir Computing and Temporal Difference Learning in Complex Environments (*J J Rodny and D C Noelle*)
- The Conceptualisation of Emotion Qualia: Semantic Clustering of Emotional Tweets (*E Y Bann and J J Bryson*)
- A Neuro-Computational Study of Laughter (*M F Alonso, P Loste, J Navarro, R Del Moral, R Lahoz-Beltra and P C Marijuán*)

Readership: Students and researchers in biocybernetics, neuroscience, cognitive science, psychology and artificial intelligence and those interested in neural models of psychological phenomena.

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