UNIVERSITY OF BIRMINGHAM

Programme for AI-Inspired Biology (AIIB) Symposium

NB: Revised 24 Mar 2010 to take account of
new information on convention web site

KEY:

Bold titles: Invited talks: 45 minute slots. (Titles are links to details).
Italic titles: Submitted papers: 30 minute slots. ([*]=link to details).
Poster presesntations: Listed at end. ([*]=link to details).
There will be boards for posters in the 'common area' used for refreshment breaks.

Further Details

- Invited talks with abstracts are listed HERE,
- Submitted papers and poster abstracts are listed HERE,

AIIB Symposium
Located in Room 1
Hugh Aston Building
De Montfort University, Leicester, UK
Approximate Location on Google Maps
Building 19 on this Campus Map

WEDNESDAY 31st MARCH 2010

0845-0900   **General Introduction and Welcome**

Jackie Chappell (Chair)
See the proceedings preface

0900-0945   **The Design-Based Approach to the Study of Mind**
Aaron Sloman (with help from the other organisers)

0945-1030   **AI-Inspired Biology: Does AI Have Something to Contribute to Biology?**
Jackie Chappell and Susannah Thorpe

1030-1100   Coffee Break

1100-1145   **Why Can't We Build Robots that are as Clever as Crows?**
Murray Shanahan

1145-1215   [*]*The Logic of Robotics Inspired Biology*
Martin Huelse and Mark Lee
[2-minute poster 'adverts' NOW POSTPONED See Below]

1215-1415   Lunch and Keynote (at Phoenix Square)
Giorgio Metta's talk is 1300-1400

1415-1500   **The Role of Vision and Attention in Language Processing**
Antje Meyer

1500-1530 [*]*Constructing Emotions: Epistemological Groundings and Robotics' Applications*
           for a Synthetic Approach to Emotions
           Luisa Damiano and Lola Caqamero

1530-1600 Coffee Break

1600-1645 **Biological and Cultural Foundations of Human Language:**
           Insights From Computer Simulations
           NICK Chater

1645-1715 [*]*AI, Attachment Theory and Simulating Secure Base Behaviour: Dr. Bowlby meet*
           the Reverend Bayes
           Dean Petters and Everett Waters

1715-1735 Short 'adverts' for AIIB Posters
           (Provisional time, pending final information about Convention
           poster sessions.)

1735-1805 (or later) Discussion Session

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THURSDAY 1st APRIL 2010

0900-0945 **Social Cognition: Views From Developmental and Comparative Psychology, and**
           Robotics on the Role of Emotion in Joint Attention
           Kim A. Bard

0945-1015 [*]*Advancing Knowledge of Cognitive Development Sequences in Infancy*
           Frank Guerin

1015-1030 Discussion Session

1030-1100 Coffee Break

1100-1130 [*]*Modeling Visual Affordances: The Selective Attention for Action Model (SAAM)*
           Christoph Boehme and Dietmar Heinke

1130-1200 [*]*Route Learning Through Classification*
           Bart Baddeley, Paul Graham, Andrew Philippides and Philip Husbands

1200-1230 **Demonstrations**
           Nick Hawes and Susannah Thorpe

1230-1400 Lunch (AISB AGM -- No keynote talk. at Phoenix Square)

1400-1445 **Forward and Inverse Models in Motor Control and Cognitive Control**
           Richard P. Cooper

1445-1530 **The Adaptive Nature of Reward: A Computational Framework for Understanding**
           Intrinsic Motivation
           Richard L. Lewis

1530-1600 Coffee Break

1600-1645 **Causal Networks in Neural Systems: from Brain-Based Devices to Consciousness**
           Anil Seth

1650-1800 **Concluding Discussion Session**
           Introduced by Margaret Boden

Poster abstracts (click on links):

- [*] Innate movement strategies for view-based homing
  Thomas Parslow, Andrew Philippides and Paul Graham

- [*] Generation of Biological Motion Patterns and Their Emergent Transitions
  with a Trainable Neural Network Oscillator
  Emilian Lalev

- [*] Context Specific Vocalizations in Human Infants (Homosapiens):
  Can Computer Modelling Help to Bring Further Insight into Categorical Perception?
  Verena Kersken, Juan-Carlos Gomez and Klaus Zuberbuehler

- [*] The PoulBot: a mobile robot for ethological studies on domestic chickens
  Alexey Gribovskiy, Francesco Mondada, Jose Halloy and Jean-Louis Deneubourg

- [*] Modelising H-CogAff global alarm system improves robot performance
  Mary Felkin and Yves Kodratoff

- [*] Construct to Understand : Learning through Exploration
  Zoe Demery and Veronica Arriola Rios

- [*] Corvid: A Versatile Platform for Exploring Mobile Manipulation
  Michael Zillich, Michael Baumann, Wolfgang Knefel and Christoph Laengauer

- [*] Grounding Symbols: Learning and Grounding 2D Shapes using Cell Assemblies that emerge from fLIF
  Neurons
  Fawad Jamshed and Christian Huyck.