AISB2010 Convention • 29th March-1st April 2010

Programme Overview

	MONDAY 29th March	TUESDAY 30th March	WEDNESDAY 31st March	THURSDAY 1st April
	Hugh Aston Building – De Montfort University			
8:00				
8:30	**OPENING SESSION** **Dean of Faculty of Technology, Chair of AISB, Chair of AISB2010 Convention**	Registration		
9:00	Sessions	Sessions	Sessions	Sessions
10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00	Sessions	Sessions	Sessions	Sessions
12:30	**Phoenix Square** **LUNCH + KEYNOTE TALK** Food available from 12:00-15:00 Keynote talks 13:00-14:00			
	Numbers to die 4 **Prof. Harold Thimbleby**	Artificial ethical intelligence: technical, conceptual and ethical challenges **Prof Steve Torrance**	From biology to robots: the RobotCub project **Dr. Giorgio Metta**	AISB annual general meeting
	Hugh Aston Building – De Montfort University			
14:00	Sessions	Sessions	Sessions	Sessions
15:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break
16:00	Sessions	Sessions	Sessions	Sessions
19:00	Movie	Movie	Convention Dinner Movie	Movie

Room Assignments

	MONDAY 29th March	TUESDAY 30th March	WEDNESDAY 31st March	THURSDAY 1st April
Room 1	Mathematical Cognition	Mathematical Cognition	Biologically inspired AI vs AI inspired Biology	Biologically inspired AI vs AI inspired Biology
Room 2	Human Memory for Artificial Agents		New Frontiers in Human-Robot Interaction	New Frontiers in Human-Robot Interaction
Room 3		AI and Games		
Room 4	Social Network Analysis and Norms for MAS	Social Network Analysis and Norms for MAS	Matching and Meaning	Matching and Meaning
Room 5		Swarm Intelligence Algorithms and Applications	Evolving Intelligent Systems	
Room 6	Linguistic and Cognitive Approaches To Dialogue Agents			
Room 7	Towards a Comprehensive Intelligence Test	Towards a Comprehensive Intelligence Test		

Evening Events — AI-Inspired Film Festival in conjunction with Phoenix Square				
	MONDAY 29th March	TUESDAY 30th March	WEDNESDAY 31st March	THURSDAY 1st April
19:00 -	AI: Artificial Intelligence (12)	Breaking the Code (12A)	Moon (15)	Bicentennial Man (to be confirmed)

Optional movie, for all conference participants, at Phoenix Square in the Leicester Cultural Quarter (http://www.phoenix.org.uk/)

Tickets: £4.80 (with DMU discount) and £3.80 (on the presentation of AISB2010 delegates badge)

There are limited reserved tickets for convention attendees, you can reserve your ticket over the phone and collect at the reception desk on presentation of your convention badge for discount.

Detailed Programme: MONDAY 29th March

	Room 1: Mathematical Practice and Cognition	Room 2: Human Memory for Artificial Agents	Room 4: Social Network Analysis and Norms for MAS	Room 6: Linguistic and Cognitive Approaches To Dialogue Agents	Room 7: Towards a Comprehensive Intelligence Test
8:00	Registration				
8:30	**OPENING SESSION (THEATRE ROOM)** **Dean of Faculty of Technology, Chair of AISB, Chair of AISB2010 Convention**				
9:00	*Welcome* 9:00-10:00 — Invited talk *Little green men from Mars and other thought experiments in philosophy of mathematics* **Alexandre Borovik** 10:00-10:30 *If learning Math requires a teacher, where did the first teachers come from?* **Aaron Sloman**	9:00-9:10 *Short introduction* **MEMORY FOR VIRTUAL AGENTS AND ROBOTS** 9:10-9:50 *Timing in episodic memory: virtual characters in action* **Ondřej Burkert, Cyril Brom, Rudolf Kadlec and Jiří Lukavský** 9:50-10:30 *Extending Soar with dissociated symbolic memories* **Nate Derbinsky and John E. Laird**	*Introduction to SNAMAS 2010* *What is power? Articulating perspectives from sociology, multi-agents systems and network analysis* **M. Mailliard** *Optimizing the core computation with social networks* **L. Sauro and S. Villata**	**DIALOG SYSTEMS AND HCI/HRI ARCHITECTURES** 9:00-9:30 *An emotional humanoid partner* **S.M. Anzalone, F. Cinquegrani, R. Sorbello, A. Chella** 9:30-10:00 *Learning a grounded language model for human-robot interaction* **Antonio Chella, Haris Dindo and Daniele Zambuto** 10:00-10:15 *Facial expressions for communicating user feedback* **Savandie Abeyratna, Galina Paramei, Hissam Tawfik, Rentian Huang** 10:15-10:30 *Forgetful and emotional: recent progress in development of dynamic memory management system for conversational agents* **Michal Ptaszynski, Pawel Dybala, Rafal Rzepka, Kenji Araki**	9:00-9:30 *Connecting the dots my own way: Sphex-test and flexibility in artificial cognitive agents* **Juan Camilo Espejo-Serna** 9:30-10:00 *Causal and communal factors in a comprehensive test of intelligence* **Paul Schweizer** 10:00-10:30 *Qualia Turing Test - Designing a test for the phenomenal mind* **Alessio Plebe and Pietro Perconti**
10:30	Coffee Break				

Detailed Programme: MONDAY 29th March

	Room 1: Mathematical Practice and Cognition	Room 2: Human Memory for Artificial Agents	Room 4: Social Network Analysis and Norms for MAS	Room 6: Linguistic and Cognitive Approaches To Dialogue Agents	Room 7: Towards a Comprehensive Intelligence Test
11:00	11:00-11:30 *Geometric proof checking with Diagrams* **John Mumma** 11:30-12:00 *Interpreting Naproche-An algorithmical approach to the derivation-indicator view* **Merlin Carl and Prof. Dr. Peter Koepke** 12:00-12:20 *Applying the GC Combined Reasoning Framework to Mathematical Discovery* **John Charnley**	**MEMORY FOR VIRTUAL AGENTS AND ROBOTS (CONT'D)** 11:00-11:40 *Short- and long-term adaptation of visual place memories for mobile robots* **Feras Dayoub, Tom Duckett and Grzegorz Cielniak** 11:40-12:00 *I can (almost) remember what you are doing: from actions to tasks* **Rudolf Kadlec and Cyril Brom** 12:00-12:20 *An object-based memory for supporting attentive virtual agents* **Christopher Peters**	11:00-12:30 — Invited talk **Bruce Edmonds**	**LANGUAGE CREATIVITY, HUMOR AND METAPHORS** 11:00-11:30 *Associative text categorisation rules pruning method* **Hussein Mansour, Wa'el Musa Hadi, Lee MCclusky, Fadi Thabtah** 11:30-12:00 *Metaphorical and contextual affect detection in an intelligent agent* **Li Zhang** 12:00-12:15 *Chain of events: multi-stage approach to humor and emotions in HCI* **Pawel Dybala, Michal Ptaszynski, Rafal Rzepka, Kenji Araki** 12:15-12:30 *Evaluation of a humor generation system by real world application with ¥500,000 to win* **Jonas Sjobergh, Kenji Araki**	11:00-11:30 *Considering social and emotional artificial intelligence* **Marc Schroeder and Gary McKeown** 11:30-12:00 *Actions and observations - demonstrating aspects of understanding in a simple world* **Chris White and David Bell** 12:00-12:30 *Towards a staged developmental intelligence test for machines* **Ed Keedwell**
12:30	**Lunch + Keynote talk (at Phoenix Square)**				

Detailed Programme: MONDAY 29th March

	Room 1: Mathematical Practice and Cognition	Room 2: Human Memory for Artificial Agents	Room 4: Social Network Analysis and Norms for MAS	Room 6: Linguistic and Cognitive Approaches To Dialogue Agents	Room 7: Towards a Comprehensive Intelligence Test
14:00	14:00-14:30 *Dynamism in mathematical thought (where there shouldn't be any): A study of gesture in the production of mathematical proof* **Tyler Marghetis, Rafael Núñez** 14:30-14:50 *The body in Renaissance arithmetic: from mnemonics to embodied cognition* **Albrecht Heeffer** 14:50-15:10 *Origins of spatial-numerical bias* **Martin Fischer** 15:10-15:30 *Interpretation is an action: understanding diagrams by manipulating them* **Valeria Giardino**	**MEMORY FOR VIRTUAL AGENTS AND ROBOTS (CONT'D)** 14:00-14:30 *Human-like memory systems for interactive robots: desiderata and two case studies utilizing grounded situation models and online social networking* **Nikolaos Mavridis and Michael Petychakis** **MEMORY MODELS AND ALGORITHMS** 14:30-15:10 *Comparing forgetting algorithms for artificial episodic memory systems* **Andrew Nuxoll, Dan Tecuci, Wan Ching Ho and Ningxuan Wang** 15:10-15:30 *Exploring the space of computational memory models* **Nate Derbinsky and Nicholas A. Gorski**	*A process based on the fuzzy set theory for evaluation of link prediction methods* **E. Alves da Silva and M. Carvalho de Andrade** *Social aspects of video recording* **A. Basso, M. Milanesio and A. Panisson** *Agent-based economic modeling with finite state machines* **I. Gnilomedov and S. Nikolenko**	**ETHICAL REASONING, EMOTIONS AND QUESTION GENERATION** 14:00-14:15 *Political question generation method using minutes of municipal councils* **Yasutomo Kimura, Hideyuki Shibuki, Keiichi Takamaru, Tetsuro Kobayashi, Tatsunori Mori** 14:15-14:30 *Machine learning and affect analysis against cyber-bullying* **Michal Ptaszynski, Pawel Dybala, Tatsuaki Matsuba, Fumito Masui, Rafal Rzepka, Kenji Araki** 14:30-14:45 *An idea of a web-crowd based moral reasoning agent* **Radoslaw Komuda, Michal Ptaszynski , Rafal Rzepka, Kenji Araki** 14:45-15:30 Summary and Discussion Panel	14:00-14:30 *How to detect an android* **Antoni Diller** 14:30-15:30 *Workshop groups activity – Toward new test proposals*
15:30	Coffee Break				

Detailed Programme: MONDAY 29th March

	Room 1: Mathematical Practice and Cognition	Room 2: Human Memory for Artificial Agents	Room 4: Social Network Analysis and Norms for MAS	Room 6: Linguistic and Cognitive Approaches To Dialogue Agents	Room 7: Towards a Comprehensive Intelligence Test
16:00	16:00-16:30 *Where axioms come from* **Dirk Schlimm** 16:30-17:30 — Invited talk *Mathematical argumentation and the Toulmin model* **Brendan Larvor**	**MEMORY MODELS AND ALGORITHMS (CONT'D)** 16:00-16:20 *Forgetting and generalisation in memory modelling for robot companions: a data mining approach* **Patricia A. Vargas, Ruth Aylett, Mei Yii Lim, Wan Ching Ho, Sibylle Enz and Alex A. Freitas** 16:20-17:30 *Open discussion*	*The hidden path from delegation to obligations: a logical analysis* **E. Lorini** *Power laws and levels of abstraction in understanding legal systems* **U. Pagallo** *Temporal reasoning and normative MAS* **C. Smith, A. Rotolo and G. Sartor**	16:00-17:30 — Invited talk *Applying concept acquisition to dialogue generation* **Brandon Rohrer**	16:00-17:30 *Workshop groups activity – Toward new test proposals (cont'd)*
17:30	Sessions end				
	Workshop Dinner (TBA)				

19:00 — Optional movie, for all convention participants, at Phoenix Square in the Leicester Cultural Quarter
***Artificial Intelligence* (12)**
£4.80 (with DMU discount) and £3.80 (on the presentation of AISB2010 delegates badge)

Detailed Programme: TUESDAY 30th March

	Room 1: Mathematical Practice and Cognition	Room 3: AI and Games	Room 4: Social Network Analysis and Norms for MAS	Room 5 + Theatre Room: Swarm Intelligence Algorithms and Applications	Room 7: Towards a Comprehensive Intelligence Test
8:30	Registration				
9:00	9:00-10:00 — Invited talk *Types of Generality in and around Mathematics and Logics* **Ivor Grattan-Guinness** 10:00-10:30 *Skills and Mathematical Knowledge* **Benedikt Loewe, Thomas Müller**	**FULL PAPERS** 9:00-9:05 *Welcome* **Daniela Romano and David Moffat** 9:05-09:35 *A hierarchical task network planner for pathfinding in real-time strategy games* **Munir Naveed, Diane Kitchin and Andrew Crampton** 09:35-10:35 *A flexible bio-affective gaming interface* **Jorge Arroyo-Palacios and Daniela M. Romano**	*Introduction to NorMAS 2010* *Contract argumentation in virtual organizations* **Criado, Heras, Argente, and Julian** *Norm emergence in regulatory compliance* **Burgemeestre, Hulstijn and Tan**	9:00-9:30 *From ants to robots: a decentralised task allocation model for a swarm of robots* **Sifat Momen & Amnada J.C. Sharkey** 9:30-10:00 *Application of CACS approach for distributed logistic systems* **Sami Al-Maqtari, Habib Abdulrab & Eduard Babkin** 10:00-10:30 *Swarm intelligence to distribute simulations in computational ecosystems* **Antoine Dutot, Damien Olivier & Guilhelm Savin**	9:00-9:30 *Don't improve the Turing Test, abandon it* **Drew McDermott** 9:30-10:00 *From the buzzing in Turing's head to machine intelligence contests* **Huma Shah and Kevin Warwick** 10:00-10:30 *The original test: it's harder than you might think* **Darren Abramson**
10:30	Coffee Break				

Detailed Programme: TUESDAY 30th March

	Room 1: Mathematical Practice and Cognition	Room 3: AI and Games	Room 4: Social Network Analysis and Norms for MAS	Room 5 + Theatre Room: Swarm Intelligence Algorithms and Applications	Room 7: Towards a Comprehensive Intelligence Test
11:00	11:00–11:20 *Analogical Reasoning, Resource Allocation and Task-Engagement in Individuals Differing in Mathematical Abilities* **Elke van der Meer, Boris Bornemann, Jan Ries, Judith Horn, Manja Foth, Isabell Wartenburger** 11:20-11:40 *Singing numbers... in cognitive space* **Martin Fischer *et al.*** 11:40-12:00 *The effects of literacy on symbolic and non-symbolic numerical magnitude processing in literate and illiterate Arabic speakers* **Samar Zebian & Daniel Ansari** 12:00-12:30 — Informal session This is an opportunity for anyone who would like to speak informally. This may be about a PhD proposal, report on work in progress, thoughts on the workshop, etc. We will arrange this on the fly at the workshop. If you would like to speak, please arrange it with Alison, Markus or Alan prior to the session.	**AI PERFORMANCE** 11:00-11:30 *Improving games' AI performance using grouped hierarchical level of detail* **David Osborne and Patrick Dickinson** 11:30-12:00 *Group emotion modelling and the use of middleware for virtual crowds in video-games* **Olivier Szymanezyk and Grzegorz Cielniak** 12:00-12:30 *Digital Footprints – recording bot movement and behaviour to improve AI opponents in FPS games* **Thomas Welsh, Alastair Hebson and David C. Moffat**	*Non-taking2 up as a normative behavior* **Saillard** *An analysis of norm emergence in Axelrod's Model* **Mahmoud, Griffiths, Keppens and Luck** *Modelling the social fabric for normative NPCs in MMOGs* **Johansson and Verhagen**	**TUTORIAL SESSION, IN THEATRE ROOM** 11:00-12:30 *Exactly solved models for collective behaviour and complex systems — Part 1* **Gérard H.E. Duchamp**	**PANEL SESSION** 11:00-11:30 *Computer system that likes chess* **Pawel Dybala, Rafal Rzepka and Kenji Araki** 11:30-12:00 *Man, machine, and interpretation. Donald Davidson on Turing's test* **Stefan Riegelnik** 12:00-12:30 *Some misconceptions regarding the Turing Test* **Hugh Loebner**
12:30	**Lunch + Keynote talk (at Phoenix Square)**				

Detailed Programme: TUESDAY 30th March

	Room 1: Mathematical Practice and Cognition	Room 3: AI and Games	Room 4: Social Network Analysis and Norms for MAS	Room 5 + Theatre Room: Swarm Intelligence Algorithms and Applications	Room 7: Towards a Comprehensive Intelligence Test
14:00	14:00-14:30 *Peer review and knowledge by testimony in mathematics* **Benedikt Loewe, Christian Geist, Bart Van Kerkhove** 14:30-15:30 — *Invited talk* *Rationale of the mathematical joke* **Andrew Aberdein**	**PLAYER MODELING** 14:00-14:30 *AEINS: The role of interactive narrative in fostering character education* **Rania Hodhod, Daniel Kudenko and Paul Cairns** 14:30-15:00 *Using a cognitive architecture for opponent target prediction* **Simon Butler and Yiannis Demiris** 15:00-15:30 *Towards automatic player behaviour characterisation using multiclass-linear discriminant analysis* **Robin Baumgarten**	11:00-12:30 — Invited talk *The uniqueness of normative behaviour* **Corinna Elsenbroich**	**TUTORIAL SESSION, IN THEATRE ROOM** 14:00-15:30 *Exactly solved models for collective behaviour and complex systems — Part 1* **Gérard H.E. Duchamp**	14:00 — Demo poster *Have a chat with sensitive artificial listeners* **Marc Schröder, Sathish Pammi, Roddy Cowie, Gary McKeown, Hatice Gunes, Maja Pantic, Michel Valstar, Dirk Heylen, Mark ter Maat, Florian Eyben, Björn Schuller, Martin Wöllmer, Elisabetta Bevacqua, Catherine Pelachaud and Etienne de Sevin** 14:15-14:30 — Poster *A proposed replacement for the Turing Test* **Doug Samuelson** 14:30-15:30 *Report back from group activities on Monday*
15:30	Coffee Break				

Detailed Programme: TUESDAY 30th March

	Room 1: Mathematical Practice and Cognition	Room 3: AI and Games	Room 4: Social Network Analysis and Norms for MAS	Room 5 + Theatre Room: Swarm Intelligence Algorithms and Applications	Room 7: Towards a Comprehensive Intelligence Test
16:00	16:00-17:30 Panel session	**DEMO AND POSTERS SESSION** 16:00-16:30 (see * below for presenters) **AI FOR GAME DESIGN** 16:30-17:00 *Procedural content generation and level design for computer games* **Simon Cooper, Abdennour El Rhalibi, Madjid Merabti and Jon Wetherall** 17:00-17:30 *Evolving pixel shaders for the prototype video game Subversion* **Andrew Howlett, Simon Colton and Cameron Browne**	*Discussion session – the future of NorMAS*	**TUTORIAL SESSION, IN THEATRE ROOM** 16:00-17:30 — Special event **Aldebaran Robotics**	14:00-17:30 Panel discussion
17:30	Sessions end				

19:00 — Optional movie, for all convention participants, at Phoenix Square in the Leicester Cultural Quarter
***Breaking the Code* (12A)**
£4.80 (with DMU discount) and £3.80 (on the presentation of AISB2010 delegates badge)

Special event for all convention participants: Tutorial by Aldebaran Robotics, 16:00-17:30, in the Theatre Room

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* Demos and Posters for *AI and Games*, 16:00-16:30:

DEMO: Digital Footprints -- a tool for generating heat maps and capturing data from FPS games
Alastair Hebson, Thomas Welsh and David C. Moffat

POSTER: EDEE: a flexible environment for research
Ningxuan Wang, Christopher Cullen and Andrew Nuxoll

POSTER: A design and implementation of 3D image interactive vision system
Sang Heon Han, Chang Ok Yun, Jung hoon Kim, Jae Ik Jo, Tae Soo Yun & Dong Hoon Lee

POSTER: Distributed drama management: integrating levels of narrative responsibility
Allan Weallans and Sandy Louchart

POSTER: Towards the use of trait inheritance for flocks of navigating agents
Piotr Piasecki and Christopher Peters

POSTER: Towards a Goal Oriented Action Planning Approach for predator-prey simulation
Justyna Pultowicz and Christopher Peters

Detailed Programme: WEDNESDAY 31st March

	Room 1: Biologically inspired AI vs AI inspired Biology	Room 2: New Frontiers in Human-Robot Interaction	Room 4: Matching and Meaning	Room 5: Evolving Intelligent Systems
8:30	Registration			
9:00	**8:45**- 09:00 *General introduction and welcome* **Jackie Chappell (Chair)** 9:00-09:45 *The design-based approach to the study of mind* **Aaron Sloman** 9:45-10:30 *AI-inspired biology: does AI have something to contribute to biology?* **Jackie Chappell and Susannah Thorpe**	9:00-9:05 *Opening and welcome* **MULTI-MODAL HUMAN-ROBOT INTERACTION** 9:05-9:20 *Expressive gestures displayed by a humanoid robot during a storytelling application* **Catherine Pelachaud, Rodolphe Gelin, Jean-Claude Martin and Quoc Anh Le** 9:20-9:35 *Mirror my emotions! Combining facial expression analysis and synthesis on a robot* **Stefan Sosnowski, Christoph Mayer, Kolja Kühnlenz and Bernd Radig** 9:35-9:50 *Reducing speech collisions by using an artificial subtle expression in a decelerated spoken dialogue – Should communication robots respond quickly?* **Kotaro Funakoshi, Kazuki Kobayashi, Mikio Nakano, Takanori Komatsu and Seiji Yamada** 9:50-10:05 *Evaluation of robot body movements supporting communication* **Helge Hüttenrauch, Cristian Bogdan, Anders Green, Kerstin Severinson Eklundh, Dominik Ertl, Jürgen Falb, Hermann Kaindl, Michael Göller** 10:05-10:30 *Discussion*	9:30-10:30 — Invited talk **Alan Bundy**	**8:45**- 09:00 *Opening address* **EIS METHODOLOGY 1** *A structure evolved learning method for Mamdani fuzzy systems* **Di Wang, Xiao-Jun Zeng and John Keane** *Dynamic analysis of the participatory learning algorithm* **Elton Lima, Rosangela Ballini, Fernando Gomide** *The need for benchmarks and meta-models in evolving systems* **Katharina Tschumitschew and Frank Klawonn**
10:30	Coffee Break			

Detailed Programme: WEDNESDAY 31st March

	Room 1: Biologically inspired AI vs AI inspired Biology	Room 2: New Frontiers in Human-Robot Interaction	Room 4: Matching and Meaning	Room 5: Evolving Intelligent Systems
11:00	11:00-11:45 *Why can't we build robots that are as clever as crows?* **Murray Shanahan** 11:45-12:15 *The logic of robotics inspired biology* **Martin Hülse and Mark Lee** 12:15-12:30 *2-minute poster announcements*	**DESIGN PERSPECTIVES** 11.00-11.15 *On making robots invisible-in-use* **Leila Takayama** 11:15-11:25 *Discussion* 11.25-12.05 — Keynote talk *Expressive robots and expressive interaction with robots: a design perspective* **Patrizia Marti** 12:05-12:30 *Discussion*	11:00-11:30 *Automatizing the evaluation of model matching systems* **Kelly Garces, Wolfgang Kling and Frederic Jouault** 11:30-12:00 *Recommendations for better quality ontology matching evaluations* **Aliaksandr Autayeu, Vincenzo Maltese and Pierre Andrews** 12:00-12:30 *The role of taxonomy properties in information content metrics* **Raul Ernesto Menendez-Mora and Ryutaro Ichise**	**EIS METHODOLOGY 2** *Cascaded multi-resolution spline-based fuzzy neural network* **Vitaliy Kolodyazhniy and Yevgeniy Bodyanskiy** *Clustering as a tool for self-generation of intelligent systems: a survey* **Rashmi Dutta Baruah and Plamen Angelov** *Reactive-adaptive methodology to encode evolving intelligent agents in serious games* **Mario Gongora and David Irvine** *Lifelong learning by evolution in robotics: bridging the gap from theory to reality* **Borja Santos-Diez, Fran-cisco Bellas, Andres Faina and Richard Duro**
12:30	**Lunch + Keynote talk (at Phoenix Square)**			

Detailed Programme: WEDNESDAY 31st March

	Room 1: Biologically inspired AI vs AI inspired Biology	Room 2: New Frontiers in Human-Robot Interaction	Room 4: Matching and Meaning	Room 5: Evolving Intelligent Systems
14:00	14:00-14:45 *The role of vision and attention in language processing* **Antje Meyer** 14:45-15:15 *Constructing emotions: epistemological groundings and robotics' applications for a synthetic approach to emotions* **Luisa Damiano and Lola Cañamero** 15:15-15:30 *Discussion session*	**DESIGN AND ANALYSIS OF HUMAN-ROBOT INTERACTION** 14:00-14:15 *Social, functional, and problem-related tasks in HRI - a comparative analysis of body orientation and gaze* **Manja Lohse** 14:15-14:30 *Validating characterizations of sociality in HRI: the case of interaction patterns* **Peter H. Kahn, Jr., Brian T. Gill, Aimee L. Reichert, Takayuki Kanda, Hiroshi Ishiguro and Jolina H. Ruckert** 14:30-14:45 *Development of human-robot interaction models by means of a cognitive walkthrough approach* **Astrid Weiss, Florian Foerster, Daniela Wurhofer and Manfred Tscheligi** 14:45-15:00 *Exploratory analysis of operator: robot ratio in search and rescue missions* **Alberto Valero, Chiara Saracini, Paloma de la Puente, Diego Rodriguez- Losada, Fernando Matia** 15:00-15:30 *Discussion*	**POSTER TALKS** 14:00-14:10 *An evidence based approach to collaborative ontology development* **Emma Tonkin, Heather D. Pfeiffer and Andrew Hewson** 14:10-14:20 *Evaluation of error taxonomy for OWL2* **Naseer Ahmed Sajid and Muhammad Abdul Qadir** 14:20-14:30 *A framework for mapping refinement specification* **Faycal Hamdi, Chantal Reynaud and Brigitte Safar** **POSTER SESSION** 14:30-15:30	**EIS APPLICATIONS** *New developments in statistical signal processing of quaternion random variables with applications in wind forecasting* **Clive Cheong Took and Danilo P. Mandic** *Application of ANN-GA hybrid to run a conveyor control system* **Paul Morley and Jeff Johnson** *An evolving framework for clustering computer users* **Jose Iglesias, Agapito Le-dezma and Araceli Sanchis**
15:30	Coffee Break			

Detailed Programme: WEDNESDAY 31st March

	Room 1: Biologically inspired AI vs AI inspired Biology	Room 2: New Frontiers in Human-Robot Interaction	Room 4: Matching and Meaning	Room 5: Evolving Intelligent Systems
16:00	16:00-16:45 *Biological and cultural foundations of human language: insights from computer simulations* **Nick Chater** 16:45-17:15 *AI, attachment theory and simulating secure base behaviour: Dr. Bowlby meet the Reverend Bayes* **Dean Petters and Everett Waters** 17:15-18:00 *Discussion*	**ROBOSKIN - ARTIFICIAL SKIN FOR HUMANOID ROBOTS** 16:00-16:15 *Touch-Triggered Protective Reflexes for Safer Robots* **Torbjørn S. Dahl and Andrew Palmer** 16:15-16:30 *Policy Adaptation through Tactile Correction* **Brenna D. Argall, Eric L. Sauser and Aude G. Billard** 16:30-16:45 *Towards Intrinsically Learned Skin Models in Robots* **Simon McGregor and Daniel Polani** 16:45-17:00 *Towards a Skin-Like Embedded Tactile Sensor for Robotic Hands* **Andrea Biggio, Perla Maiolino and Giorgio Cannata** 17:00-17:30 *Discussion*	16:00-16:30 *Representation and reasoning for ontology evolution* **Michael Chan, Alan Bundy and Jos Lehmann** 16:30-17:00 *Studying concept shift in political ontologies* **Shenghui Wang, Stefan Schlobach, Janet Takens and Wouter van Atteveldt**	**EIS METHODOLOGY 3** *An online predictor model as adaptive linear model and evolving Takagi-Sugeno model* **Ahmad Kalhor, Babak N. Araabi and Caro Lucas** *Incremental classification of images by human assisted fuzzy similarity analysis* **Gancho Vachkov** *Clustering to train an evolving radial basis function* **Jose de Jesus Rubio, Jaime Pacheco and Raul Rivera**
17:30	Session end	Session end	Session end	17:30-17:45 *Closing and round up*
18:00			Workshop drinks (venue TBA)	
19:00	**Convention Dinner** **At Belmont Hotel • De Montfort Street • Leicester • LE1 7GR**			

19:00 — Optional movie, for all convention participants, at Phoenix Square in the Leicester Cultural Quarter
***Moon* (15)**
£4.80 (with DMU discount) and £3.80 (on the presentation of AISB2010 delegates badge)

Detailed Programme: Detailed Programme: THURSDAY 1st April

	Room 1: Biologically inspired AI vs AI inspired Biology	Room 2: New Frontiers in Human-Robot Interaction	Room 4: Matching and Meaning
8:30	Registration		
9:00	9:00-9:45 *Social cognition: views from developmental and comparative psychology, and robotics on the role of emotion in joint attention* **Kim A. Bard** 9:45-10:15 *Advancing knowledge of cognitive development sequences in infancy* **Frank Guerin** 10:15-10:30 *Discussion session*	**COGNITION FOR ROBOTS IN HRI** 9:00-9:15 *Towards HRI on the move with mixed initiative* **Cristian Bogdan, Dominik Ertl, Michael Göller, Anders Green and Kerstin Severinson Eklundh** 9:15-9:30 *A smart action selection architecture taking into account both goal-orientedness and proactivity* **Woo Young Kwon and Il Hong Suh** 9:30-9:45 *An autonomous proxemic system for a mobile companion robot* **Mohammadreza Asghari Oskoei, Michael L. Walters and Kerstin Dautenhahn** 9:45-10:00 *Robot learning of lexical semantics from sensorimotor interaction and the unrestricted speech of human tutors* **Joe Saunders, Chrystopher L. Nehaniv and Caroline Lyon** 10:00-10:30 *Discussion*	09:30-10:00 *Adaptive user interface assistance in smart environments* **Maximilian Kern, Frank Trollmann, Marco Blumendorf and Sahin Albayrak** 10:00-10:30 *An approach for bipolar ontology alignment argumentation in multi-agent systems* **Paulo Maio and Nuno Silva**
10:30	Coffee Break		

Detailed Programme: Detailed Programme: THURSDAY 1st April

	Room 1: Biologically inspired AI vs AI inspired Biology	Room 2: New Frontiers in Human-Robot Interaction	Room 4: Matching and Meaning
11:00	11:00-11:30 *Modeling visual affordances: the selective attention for action model (SAAM)* **Christoph Böhme and Dietmar Heinke** 11:30-12:00 *Route learning through classification* **Bart Baddeley, Paul Graham, Andrew Philippides and Philip Husbands** 12:00-12:30 *Demonstration* **(Possibly involving Nick Hawes, Susannah Thorpe and Michael Zillich)**	**ATTITUDES AND RELATIONSHIPS WITH ROBOTS** 11:00-11:15 *Ibn Sina steps out: exploring Arabic attitudes toward humanoid robots* **Laurel D. Riek, Nikolaos Mavridis, Shammah Antali, Noura Darmaki, Zeeshan Ahmed, Maitha Al-Neyadi and Amina Alketheri** 11:15-11:25 *Discussion* 11:25-12:10 — Keynote talk *Is a Companion a distinctive kind of relationship with a machine?* **Yorick Wilks** 12:10-12:30 *Discussion*	11:00-12:30 — Panel session **Jos Lehmann, Vincenzo Maltese, and Fiona McNeill**
12:30	**Lunch + Keynote talk (at Phoenix Square)**		

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14:00	14:00-14:45 *Forward and inverse models in motor control and cognitive control* **Richard P. Cooper** 14:45-15:30 *The adaptive nature of reward: a computational framework for understanding intrinsic motivation* **Richard L. Lewis, Satinder Singh and Andrew Barto**	**ROBOTS FOR THE YOUNG AND OLD** 14:00-14:20 *A robot as persuasive social actor: a field trial on child-robot interaction* **Astrid Weiss, Thomas Scherndl, Roland Buchner and Manfred Tscheligi** 14:20-14:40 *How infants perceive the toy robot Pleo. An exploratory case study on infant-robot-interaction* **Karola Pitsch and Benjamin Koch** 14:40-15:00 *Ethical issues in robot care for the elderly: Dystopia or optimism?* **Amanda Sharkey and Noel Sharkey** 15:00-15:30 *Discussion*	14:00-14:30 *Exploring ontology merging with examples* **Liwei Deng** 14:30-15:00 *Integrating technical terms into Thesaurus using extracted related words* **Yoshimi Suzuki and Fumiyo Fukumoto** **15:00 Close of workshop**
15:30	Coffee Break		
16:00	16:00-16:45 *Causal networks in neural systems: from brain-based devices to consciousness* **Anil Seth** 16:50-**18:00** *Concluding discussion session* **Introduced by Margaret Boden**	16:00-17:00 — Panel *How social do robots really need to be?* **Panel members include Laurel Riek, Amanda Sharkey, Astrid Weiss, Karola Pitsch, Leila Takayama, Yorick Wilks. Chaired by Kerstin Dautenhahn** 17:00-17:30 *Final discussion and conclusion*	
17:30	Sessions end		

19:00 — Optional movie, for all convention participants, at Phoenix Square in the Leicester Cultural Quarter
***Bicentennial Man (*15) [To be confirmed]**
£4.80 (with DMU discount) and £3.80 (on the presentation of AISB2010 delegates badge)