

AISB 2004 Convention
Symposium on Adaptive Agents and Multi-Agent Systems
Programme

Venue: Music Lecture Theatre 1, Ground floor, Music & ICSRiM building
Monday, 29 March 2004

08:00–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–09:05	AISB 2004 Convention, Opening Session: Dr Kia Ng
09:05–10:00	Plenary keynote (Music Lecture Theatre 1): Prof Anthony Cohn Cognitive Vision: integrating symbolic qualitative representations with computer vision
10:00–10:25	Coffee/tea break
Session 1	
10:25–10:30	Welcome
10:30–12:30	<ul style="list-style-type: none"> • “Time Management Adaptability in Multi-Agent Systems”, <i>A. Helleboogh, T. Holvoet, D. Weyns</i> • “Dynamic and Distributed Interaction Protocols in Open Multi-Agent Systems”, <i>J.P. McGinnis</i> • “A Role Based Model for Adaptive Agents”, <i>D. Weyns, K. Schelfhout, T. Holvoet, O. Glorieux</i> • “Using XCS to Build Adaptive Agents”, <i>Z. Guessoum, L. Rejeb, O. Sigaud</i> • “Automated Component-Based Configuration: Promises and Fallacies”, <i>S. van Splunter, N. Wijngaards, F. Brazier, D. Richards</i>
12:30–14:00	Lunch break
Session 2	
14:00–15:30	<ul style="list-style-type: none"> • “Reinforcement Learning of Coordination in Heterogeneous Cooperative Multi-Agent Systems”, <i>S. Kapetanakis, D. Kudenko</i> • “Multi-Agent Coordination in Tree Structured Multi-Stage Games”, <i>K. Verbeeck, A. Nowe, M. Peeters</i> • “Baselines for Joint-Action Reinforcement Learning of Coordination in Cooperative Multi-Agent Systems”, <i>M. Carpenter, D. Kudenko</i>
15:30–16:00	Coffee/tea break
Session 3	
16:00–17:00	<ul style="list-style-type: none"> • “Interactive Multi-Agent Learning”, <i>P.R. Graca, G. Gaspar</i> • “A Motivation-based Approach for Autonomous Generation and Ranking of Goals in Artificial Agents”, <i>L. Macedo, A. Cardoso</i> • “Self-adaptive network of cooperative neuro-agents”, <i>J.P. Mano, P. Glize</i> • “A Multi-Agent Framework for Web Information Retrieval”, <i>P.A.C. Sousa, J.P. Pimentao, B.R.D. Santos, A.S. Garcao</i>

Tuesday, 30 March 2004

Venue: Music Lecture Theatre 1, Ground floor, Music & ICSRiM building

08:15–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–10:00	Plenary keynote (Music Lecture Theatre 1): Prof Antonio Camurri Expressive Gesture and Multimodal Interactive Systems
10:00–10:30	Coffee/tea break
10:30–11:30	AAMAS-4 Keynote Lecture: Juergen Schmidhuber, IDSIA, Switzerland: “Gödel Machines and other Wonders of the New, Rigorous, Universal AI”
Session 4	
11:30–12:30	<ul style="list-style-type: none"> • “Dynamic Scheduling of Multiple Agents for a Heterogeneous Task Stream”, <i>N. Windelinckx, M. Strens</i> • “Robust Online Reputation Mechanism by Stochastic Approximation”, <i>T. Sakai, K. Terada, T. Araragi</i>
12:30–14:00	Lunch break
Session 5	
14:00–15:15	<ul style="list-style-type: none"> • “Evolving the Game of Life”, <i>D. Kazakov, M. Sweet</i> • “The Role of Environment Structure in Multi-Agent Simulations of Language Evolution”, <i>M. Bartlett, D. Kazakov</i> • “The Strategic Control of an Ant-Based Routing System using Neural Net Based Q-Learning Agents”, <i>D. Legge, P. Baxendale</i>
15:15–15:30	• Concluding Discussion
15:30–16:00	Coffee/tea break

AISB 2004 Convention
**Symposium on Emotion, Cognition, and
Affective Computing**

Programme

Venue: Music Lecture Theatre 2, Ground floor, Music & ICSRiM building

Thursday, 1 April 2004

08:15–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–10:00	Plenary keynote (Music Lecture Theatre 1): Dr Ian Cross The social mind and the emergence of musicality: implications for modelling music
10:00–10:25	Coffee/tea break
10:25–10:30	Symposium welcome and introduction
10:30–11:00	On the Relation between Emotion and Entropy, <i>R. Belavkin</i>
11:00–11:30	Integration of Psychological Models in the Design of Artificial Creatures, <i>C.M. Bryant, G.J.F. Jones and A.M. Wills</i>
11:30–12:00	Why do anything? Emotion, Affect and the Fitness Function underlying Behaviour and Thought, <i>D.N. Davis</i>
12:30–14:00	Lunch break
14:00–14:30	Do Somatic Markers need to be Somatic? Analogies from Evolution and Hardware Interlocks, <i>C.G. Johnson</i>
14:30–15:00	Emotion-Based Planning, <i>L. Macedo and A. Cardoso</i>

AISB 2004 Convention
COST287-ConGAS Symposium on Gesture Interfaces for Multimedia Systems (GIMS)

www.leeds.ac.uk/aisb/gims

Programme

Venue: Rehearsal Hall (B09, Basement), Music & ICSRiM building

Monday, 29 March 2004

08:00–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–09:05	AISB 2004 Convention, Opening Session: Dr Kia Ng
09:05–10:00	Plenary keynote (Music Lecture Theatre 1): Prof Anthony Cohn Cognitive Vision: integrating symbolic qualitative representations with computer vision
10:00–10:30	Coffee/tea break
Session 1. Chair: Nicola Bernardini	
10:30–10:50	Object Design Considerations for Tangible Musical Interfaces (<i>M. Kaltenbrunner, S. O'Modhrain, E. Costanza</i>)
10:50–11:10	The Scangloves: a Video-Music Instrument Based on Scanned Synthesis (<i>L. Kessous, D. Arfib</i>)
11:10–11:30	Novagen: A Combination of Eyesweb and an Elaboration-Network Representation for the Generation of Melodies under Gestural Control (<i>A. Marsden</i>)
11:30–11:50	Virtual Sculpture – Gesture-Controlled System for Artistic Expression (<i>M. Marshall</i>)
11:50–12:10	Oscillation: Work for Saxophonist, 3D Animation and Real-time Sound Processing Controlled by Motion Capture Data (<i>F. Schroeder, P. Rebelo, P. Nelson</i>)
12:10–12:30	A Movement Recognition Engine for the Development of Interactive Multimedia Works (<i>T. Ingalls, T. Rikakis, J. James, G. Qian, L. Olson, F. Guo, S. Wong</i>)
12:30–14:00	Lunch break
Session 2. Chair: Antonio Camurri	
14:00–14:15	Motion and Emotion using Home-made Digital Musical Instruments (<i>D. Arfib, J.-M. Couturier, L. Kessous</i>)
14:15–14:30	Improving Gestural Articulation through Active Tactual Feedback in Musical Instruments (<i>B. Bongers, G. van der Veer and M. Simon</i>)
14:30–14:45	Toward Real-time Multimodal Processing: EyesWeb 4.0 (<i>A. Camurri, P. Coletta, A. Massari, B. Mazzarino, M. Peri, M. Ricchetti, A. Ricci, G. Volpe</i>)
14:45–15:00	Using Optical Motion Capture for Gesture Recognition (<i>D. Lowe, N. Murray, J. Y. Goulermas and T. Fernando</i>)
15:00–15:15	On Webcams and Ultrasonic Anemometers: Applications of Touchless Sensors in the White Cube Context (<i>M. Steiner</i>)
15:15–15:30	Sensing Systems for Interactive Architecture (<i>B. Bongers</i>)
15:30–16:00	Coffee/tea break
Session 3. Chair: Kia Ng	
16:00–16:30	Palpable pixels and virtual strings (<i>B. Bongers</i>)
16:30–17:00	EyesWeb 4.0 (<i>A. Camurri, G. Volpe</i>)
17:00–17:30	EyeCon – A Motion Sensing Tool for Creating Interactive Dance, Music and Video Projections (<i>R. Wechsler, F. Weiß, P. Dowling</i>)

You may also be interested in the plenary keynote by Prof Antonio Camurri (“Expressive Gesture and Multimodal Interactive Systems”) on Tuesday 30 March 2004, 9-10am. There is also a meeting of the EU COST action 287 "ConGAS - Gestural Controlled Audio Systems" Working Group 2 on Tuesday 30 March 2004. If you are interested to attend the meeting, please contact icsrim@leeds.ac.uk or inform the co-chairs.

COST-ConGAS WG2 Meeting

Venue: Rehearsal Hall (B09, Basement), Music & ICSRiM building

Tuesday, 30 March 2004

08:15–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–10:00	Plenary keynote (Music Lecture Theatre 1): Prof Antonio Camurri Expressive Gesture and Multimodal Interactive Systems
10:00–10:30	Coffee/tea break
10:30–12:30	<ul style="list-style-type: none"> • Agenda • ICSRiM Lab tour
12:30–14:00	Lunch break
14:00–15:30	ConGAS meeting: presentations and discussions
15:30–16:00	Coffee/tea break
16:00–17:30	ConGAS meeting: hands-on/demo

AISB 2004 Convention
Symposium on the Immune System and Cognition (ImmCog-2004)

Programme

Venue: Music Lecture Theatre 2, Ground floor, Music & ICSRiM building
Tuesday, 30 March 2004

08:15–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–10:00	Plenary keynote (Music Lecture Theatre 1): Prof Antonio Camurri Expressive Gesture and Multimodal Interactive Systems
10:00–10:25	Coffee/tea break
10:25–10:30	Opening comments: Simon Garrett
10:30–12:30	<ul style="list-style-type: none"> • Invited talk: An Introduction to AIS, Jon Timmis • PICS: Pittsburgh Immune Classifier System, Alessio Gaspar • What's most interesting: cognition, homeostasis or autonomy? Mark Neal
12:30–14:00	Lunch break
14:00–15:30	<ul style="list-style-type: none"> • An Artificial Immune System for Misbehavior Detection in Mobile Ad Hoc Networks with both Innate, Adaptive Subsystems and with Danger Signal, Slavisa Sarafijanovic • The Immune System, Networks and Cognition: Enough Thoughts for a Debate? Jon Timmis • Immune Systems, Danger Theory and Intrusion Detection, Jamie Twycross
15:30–15:55	Coffee/tea break
15:55–17:00	<ul style="list-style-type: none"> • Discussion session, Simon Garrett

Wednesday, 31 March 2004

Venue: Music Lecture Theatre 2, Ground floor, Music & ICSRiM building

08:15–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–10:00	Plenary keynote (Music Lecture Theatre 1): Dr David Randell Reasoning about Perception, Space and Motion: a Cognitive Robotics Perspective
10:00–10:25	Coffee/tea break
10:25–11:25	Invited talk: Immune Modelling, Derek Smith
11:30–12:35	<ul style="list-style-type: none"> • Exploiting Immune Memory for Supervised Learning, Andrew Watkins • An Investigation into Immunological Robot Controllers, Andrew Webb • Closing comments, Simon Garrett
12:35–13:30	Lunch break
13:30–14:30	<ul style="list-style-type: none"> • AISB 2004 AGM (Music Lecture Theater 1, Ground floor)

AISB 2004 Convention
Symposium on Language, Speech and Gesture for Expressive Characters

Programme

Venue: Roger Stevens Lecture Theatre 24
Tuesday, 30 March 2004

08:15–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–10:00	Plenary keynote (Music Lecture Theatre 1): Prof Antonio Camurri Expressive Gesture and Multimodal Interactive Systems
10:00–10:25	Coffee/tea break
10:25–10:30	Opening comments:
Session 2: Gesture	
10:30–12:15	<ul style="list-style-type: none"> "Virtual Human Signing as Expressive Animation", <i>John Glauert, Ralph Elliott, Richard Kennaway & Barry-John Theobald</i> "Defining the Gesticon: Language and Gesture Coordination for Interacting Embodied Agents", <i>Brigitte Krenn & Hannes Pirker</i> "Pragmatics of Body-Speech Coordination in Multi-Modal Expression", <i>Satinder P. Gill & Masahito Kawamori</i>
12:15–13:30	Lunch break
Session 3: Motion and facial expression	
13:30–15:15	<ul style="list-style-type: none"> "Artistically Based Computer Generation of Expressive Motion", <i>Michael Neff & Eugene Fiume</i> "Developing a Virtual Ballet Dancer to Visualise Choreography", <i>Royce Neagle, Kia Ng & Roy Ruddle</i> "A Probabilistic Hierarchical Framework for Active Appearance Model", <i>Lukasz Zalewski & Shaogang Gong</i>
15:15–15:45	Coffee/tea break
Session 4: Comment and demo session	
15:45–17:30	<ul style="list-style-type: none"> "To be, or to seem to be? That is the question", <i>Chris Newell</i> <i>System Demonstrations</i>
	<ul style="list-style-type: none"> Workshop Dinner (...don't make other plans!)

Wednesday, 31 March 2004

Venue: Roger Stevens Lecture Theatre 24

08:15–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–10:00	Plenary keynote (Music Lecture Theatre 1): Dr David Randell Reasoning about Perception, Space and Motion: a Cognitive Robotics Perspective
10:00–10:30	Coffee/tea break
Session 2: Speech	
10:30–12:15	<ul style="list-style-type: none"> "Speaking with Emotions", <i>E. Bevacqua, M. Mancini & C. Pelachaud</i> "Reusing Motion Data to Animate Visual Speech", <i>James D. Edge, Manuel A. Sanchez Lorenzo & Steve Maddock</i> "Expressive Speech Characteristics in the Communication with Artificial Agents", <i>Kirsten Fischer</i>
12:15–13:30	Lunch break
13:30–14:30	<ul style="list-style-type: none"> AISB 2004 AGM (Music Lecture Theater 1, Ground floor)
Session 3: Emotion and expressive behaviour	
14:30–16:15	<ul style="list-style-type: none"> "Modelling character emotion in an interactive virtual environment", <i>Mehdi El Jed, Nico Pallamin, Julie Dugdale & Bernard Pavard</i> "Influenceable Embodied Conversational Agent", <i>Vincent Maya, Myriam Lamolle & Catherine Pelachaud</i> "Expressive characters and a text chat interface", <i>Marco Gillies, Barry Crabtree & Daniel Ballin</i>
16:15–16:45	Coffee/tea break
Session 4: Systems	
16:45–18:30	<ul style="list-style-type: none"> "Artificial companions for older people", <i>David Benyon, Greg LePlatre, Oli Mival, Stewart Cringean & Gopal Vaswani</i> "To tell or not to tell...Building an interactive virtual storyteller", <i>Andre Silva, Guilherme Raimundo, Celso de Melo & Ana Paiva</i> "Don't hit me! - combining language and action in FearNot!", <i>Sandy Louchart, Ruth Aylett, Jonathan Pickering & Daniela Romano</i>

Automated Reasoning Workshop Programme

Venue: Music Lecture Theatre 1, Ground floor, Music & ICSRiM building
Wednesday, 31 March 2004

08:15–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–10:00	Plenary keynote (Music Lecture Theatre 1): Dr David Randell Reasoning about Perception, Space and Motion: a Cognitive Robotics Perspective
10:00–10:25	Coffee/tea break
10:25–10:30	ARW Welcome
Technical Session 1: NON-CLASSICAL SYSTEMS	
10:30–11:45	<ul style="list-style-type: none"> • Implementation of a tableau theorem prover for modal logic, Zhen Li • A principle for incorporating axioms into the first-order translation of modal formulae, Renate A. Schmidt and Ullrich Hustadt • A Three-Valued Hoare Calculus, Viviana Bono and Manfred Kerber • E-Checker: A prototype tool for investigating some properties of multivalent logic systems, David Anderson and Peter W. Pearson • Abductive Logic Programming with ClIFF, Ulle Endriss, Paolo Mancarella, Fariba Sadri, Giacomo Terreni, and Francesca Toni • Short Poster introductions: <ul style="list-style-type: none"> ○ Case studies for first-order temporal logic, M.Carmen Fernandez Gago ○ Qualitative Descriptions of Location: an approach using a hybrid matroid structure, Anthony J. Roy ○ Environmental knowledge representation, Antony Galton and James Hood ○ Compilation of quasi-destructive unification of type feature structures, Liviu Ciortuz ○ Specifying and Verifying Security Protocols using Temporal Logics of Knowledge, Clare Dixon, Mari-Carmen Fernandez Gago, Michael Fisher and Wiebe van der Hoek
11:45–12:30	Poster Session 1
12:30–13:30	Lunch break
13:30–14:30	<ul style="list-style-type: none"> • AISB 2004 AGM (Music Lecture Theater 1, Ground floor)
Technical Session 1: SPATIAL and TEMPORAL REASONING	
14:30–15:30	<ul style="list-style-type: none"> • Logical representation for route graphs, Paolo Torrini • Michael Fischer, Clare Dixon, Boris Konev, Ullrich Hustadt, and Frank Wolter • Deductive Verification of Infinite Systems: Broadcast Protocols Michael Fisher and Alexei Lisitsa, Fisher • A Clausal Resolution Method for Branching-Time Logic ECTL+, Alexander Bolotov and Artie Basukoski
14:45–15:30	Poster Session 2
15:30–15:55	Coffee/tea break
15:55–17:00	Invited talk by Jacques Fleuriot: Interactive Theorem Proving in Geometry: issues and applications
19:30	Workshop Dinner: Darbar restaurant

Thursday, 1 April 2004

Venue: Music Lecture Theatre 1, Ground floor, Music & ICSRiM building

08:15–09:00	Registration: New School of Music & ICSRiM building, Cavendish Road, University of Leeds
09:00–10:00	Plenary keynote (Music Lecture Theatre 1): Dr Ian Cross The social mind and the emergence of musicality: implications for modelling music
10:00–10:25	Coffee/tea break
10:25–11:30	Invited talk by Franz Baader: From Tableau to Automata for Description Logics
Technical Session 3: AUTOMATED REASONING TECHNIQUES	
11:30–12:00	<ul style="list-style-type: none"> • Reasoning about types in a general purpose inference engine, Allan Ramsay • Proof planning: Comparing OMEGA, lambda-CLAM and ISAPLANNER, Lucas Dixon, Mateja Jamnik, and Martin Pollet • Mechanized Support for Retrenchment, Simon Fraser and Richard Banach
12:00–12:30	Poster Session 3
12:30–14:00	Lunch break (and ARW Committee Meeting)
Technical Session 4: LEARNING and KNOWLEDGE	
14:00–14:40	<ul style="list-style-type: none"> • Automatic conjecture modification, Alison Pease and Simon Colton • Looking for Logic in Vision, Paulo Santos, Derek Magee and Anthony Cohn • Automatic Generation of Classification Theorems for Finite Algebras, Simon Colton, Andreas Meier, Volker Sorge, Roy McCasland • A reasoning mechanism for corpus-based knowledge representation, Shabnam Surjitsingh Ivkovic and Anne Banks Pidduck
14:40–15:30	Difficult Questions for Automated Reasoning
15:30–15:55	Coffee/tea break
15:55	Closing Session