

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

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| 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

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|------------------|--|
| 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

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|-------------|---|
| 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

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|--|---|
| 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

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|--|---|
| 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 |