

**35th Annual Convention of the Society for
the Study of Artificial Intelligence and the
Simulation of Behaviour
(AISB 2009)**

**Adaptive & Emergent Behaviour &
Complex Systems**

**Edinburgh, Scotland
6-9 April 2009**

ISBN: 978-1-63266-874-5

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2009) by AISB – The Society for the Study of Artificial Intelligence
and the Simulation of Behaviour
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact AISB
at the address below.

AISB
c/o Dr. Katerina Koutsantoni
4 Windsor Walk, Denmark Hill
London SE5 8AF UK

Phone: 441 273 678 448
Fax: 441 273 671 320

aisb@cogs.susx.ac.uk

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

8 April 2009
AISB'09 Convention @ Heriot-Watt University
Edinburgh, UK

AISB 2009 Society General Meeting Presents

The Turing Test Challenged

Is the Turing Test about
intelligence or deception?

Can a new era test
be developed to
test True
Intelligence?

Are these tests to
be based on
Formal Metrics or
Human
Subjectivity?

Are different
tests
needed for
different
types of
intelligence?

Is True Intelligence always
useful?

Can a machine psychology be
founded?



6th April 2009

Our ref.: nkt/aisb09

Dear Delegate

AISB'09

Welcome to the 23rd Convention of the Society for the Study of Artificial Intelligence and Simulation of Behaviour in the Edinburgh Conference Centre at Heriot-Watt University.

We have a broad and exciting mix of papers at this year's SSAISB Convention, spread across 12 Symposia. In addition to this we have organised keynote addresses for each evening of the Convention which are also public lectures in this year's Edinburgh International Science Festival programme.

Free WiFi is available throughout the Conference Centre –

Network SSID : *eccnet*
Network Key: *eccwireless07*

For those of you who are registered with *eduroam*, whilst not accessible in the Conference Centre itself, this service is available almost everywhere else on the campus. Free Internet access is also available in the on-campus accommodation via a wired connection.

If you experience any problems whilst you are with us do not hesitate to approach anybody with a cream-coloured delegate badge as they will be pleased to assist you.

We very much hope you enjoy your time at AISB'09 and Heriot-Watt University.

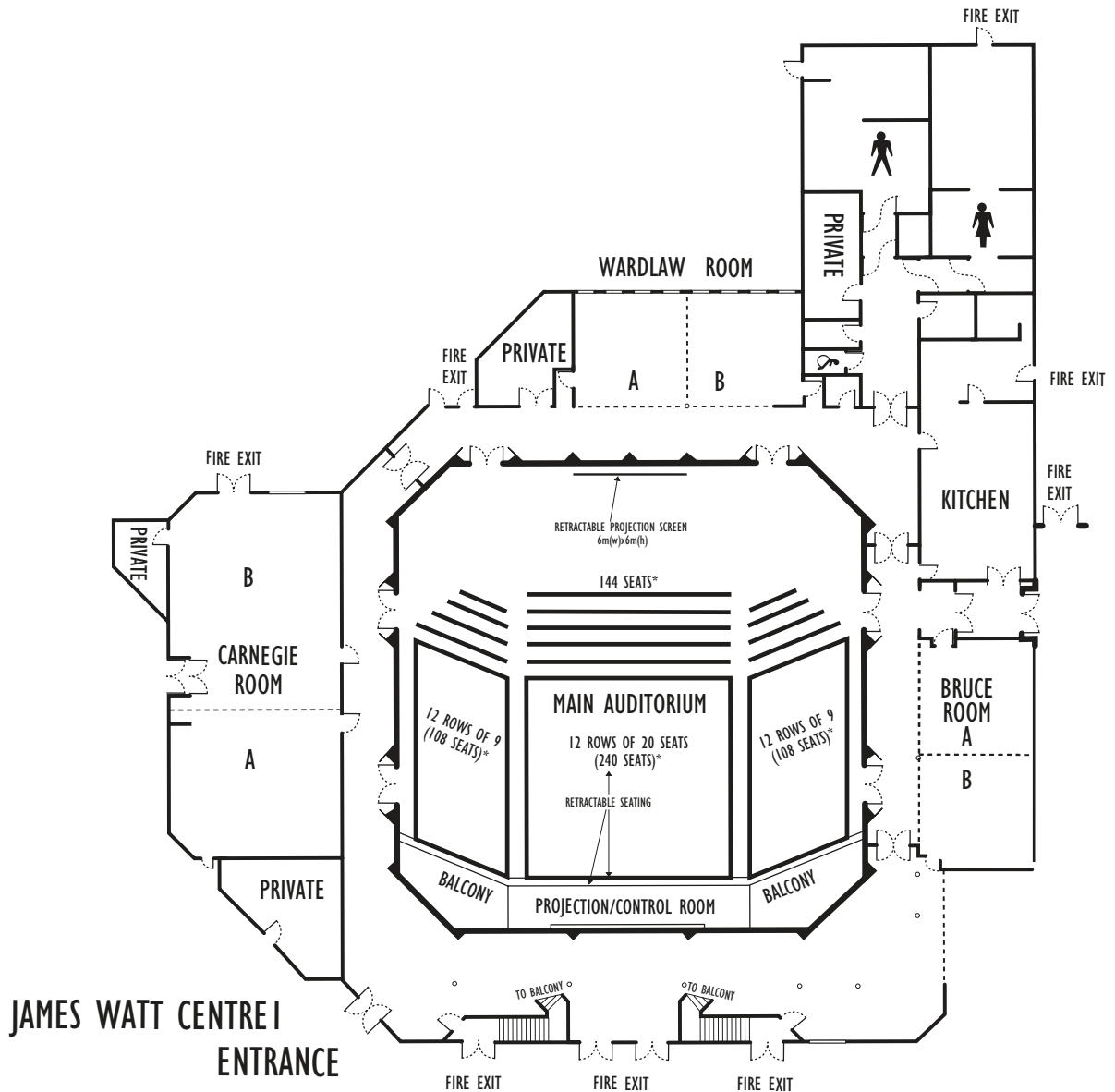
Yours, on behalf of the AISB'09 Local Organising Committee,

Professor Nick Taylor
Convention Chair

Tel. (direct dial) 0131 451 3436
Email N.K.Taylor@hw.ac.uk

Computer Science
School of Mathematical and Computer Sciences
Mounbatten Building Heriot Watt University Edinburgh EH14 4AS United Kingdom
Telephone +44(0)131 451 3425 Fax +44(0)131 451 3327

Edinburgh Campus Scottish Borders Campus



James Watt Centre I	
Main Auditorium	Area (m²) 506
Carnegie Room	171
Wardlaw Room	72
Bruce Room	72
Additional concourse area and poster space	
Ceiling Height Main Auditorium	
Highest point	8m
Lowest point	5.6m
Ceiling Height Seminar Rooms	2.65m
Maximum Seating Capacity	600

Key	
<ul style="list-style-type: none"> W WALL MOUNTED BOX: 2X13A SWITCHED SOCKETS F FLOOR ACCESS BOX: 2X13A SWITCHED SOCKETS D 2x FLEXIBLE DATA LINKS, RJ45 SOCKET FOR DATA, ISDN OR TELEPHONE LINKS --- PARTITION WALL OF SOLID MOVEABLE PANELS SINGLE DOOR: 	<ul style="list-style-type: none"> T TELE JACK SW SWITCHED POWER SOCKET 250VAC, 13 AMP, 50 HZ TV AND C.C.T.V. CO-AXIAL OUTLET (WALL MOUNTED) ○ SUPPORT PILLAR — WINDOWS DOUBLE DOOR:

TABLE OF CONTENTS

USER INTENT TO SUPPORT PROACTIVITY IN A PERVASIVE SYSTEM	1
<i>Yussuf Abu Shaaban, Sarah McBurney, Nick Taylor, M. Howard Williams, Nikos Kalatzis, Ioanna Roussaki</i>	
AN ARCHITECTURE SUPPORTING PROACTIVE ROBOT COMPANION BEHAVIOR	7
<i>Muhammad Ali, Samir Alili, Matthieu Warmier, Rachid Alami</i>	
HUMAN TO ROBOT DEMONSTRATIONS OF ROUTINE HOME TASKS: ACKNOWLEDGMENT AND RESPONSE TO THE ROBOT’S FEEDBACK	15
<i>Aris Alissandrakis, Yoshihiro Miyake</i>	
THE IMPLEMENTATION OF OPTIMIZATION ALGORITHM FOR ENERGY EFFICIENT DYNAMIC AD HOC WIRELESS SENSOR NETWORKS	22
<i>Mohaned Al. Obaidy, Aladdin Ayesh</i>	
MEASURE OF BELIEF CHANGE AS AN EVALUATION OF PERSUASION	29
<i>Pierre Andrews, Suresh Manandhar</i>	
A CRITICAL REVIEW OF INTERACTIVE DRAMA SYSTEMS	35
<i>Maria Arinbjarnar, Heather Barber, Daniel Kudenko</i>	
DIRECTED EMERGENT DRAMA VS. PEN & PAPER ROLE-PLAYING GAMES	47
<i>Maria Arinbjarnar, Daniel Kudenko</i>	
ADAPTIVE MESH ARCHITECTURES FOR SPECKLED ROBOTS	49
<i>D.K. Arvind, A. P. Kulkarni</i>	
SUPPORTING REMOTE MANIPULATION WITH AN ECOLOGICAL AUGMENTED VIRTUALITY INTERFACE	54
<i>J. Alan Atherton, Michael A. Goodrich</i>	
AQUAROBOTS PHASE II: OIL SPILLAGE DETECTION USING SWARM AQUABOTS	62
<i>Babu K. Shamanna, Aladdin Ayesh</i>	
A LONG-TERM SWARM INTELLIGENCE HEDGING TOOL APPLIED TO ELECTRICITY MARKETS	67
<i>Filipe Azevedo, Zita A. Vale</i>	
TOWARDS AN ANALYSIS OF ARGUMENTATION STRUCTURE AND THE STRENGTH OF ARGUMENTS IN NEWS EDITORIALS	74
<i>Bal Krishna Bal, Patrick Saint-Dizier</i>	
‘BIG CHIEF’: THE UTILISATION OF MODEL BUILDING FOR THE DESIGN OF SCIENCE EDUCATION FOR SUSTAINABLE DEVELOPMENT GAMES	78
<i>Timothy Barker</i>	
HEURISTIC RULES FOR HUMAN-ROBOT INTERACTION BASED ON PRINCIPLES FROM LINGUISTICS - ASKING FOR DIRECTIONS	80
<i>Andrea Bauer, Barbara Gonsior, Dirk Wollherr, Martin Buss</i>	
TOWARDS THE AUTOMATIC INVENTION OF SIMPLE MIXED REALITY GAMES	87
<i>Robin Baumgarten, Maria Nika, Jeremy Gow, Simon Colton</i>	
COMPARING PERCEPTION OF AFFECTIVE BODY MOVEMENTS DISPLAYED BY ACTORS AND ANIMATED CHARACTERS	93
<i>Ariel Beck, Brett Stevens, Kim A. Bard</i>	
A DYNAMIC FIELD APPROACH TO GOAL INFERENCE AND ERROR MONITORING FOR HUMAN-ROBOT INTERACTION1	99
<i>Estela Bicho, Luis Louro, Nzoji Hipolito, Wolfram Erlhagen</i>	
IMPLEMENTATION OF MILLENSON’S MODEL OF EMOTIONS IN A GAME ENVIRONMENT	106
<i>William Blewitt, Aladdin Ayesh</i>	
DO SOCIO-TECHNICAL SYSTEMS COGNISE?	112
<i>Olle Blomberg</i>	
IMPACT OF AGENT’S ANSWERS VARIABILITY ON ITS BELIEVABILITY AND HUMAN- LIKENESS AND CONSEQUENT CHATBOT IMPROVEMENTS	119
<i>Mao Xuetao, Francois Bouchet, Jean-Paul Sansonnet</i>	
A MULTI-OBJECTIVE EVOLUTIONARY ALGORITHM FOR PORTFOLIO OPTIMISATION	125
<i>Noel-Ann Bradshaw, Chriswalshaw, Constantinos Ierotheou, A. Kevin Parrott</i>	
CRUDE, CHEESY, SECOND-RATE CONSCIOUSNESS	131
<i>Joanna J. Bryson</i>	
THE DESIGN OF CONVIVIAL MULTIAGENT SYSTEMS	137
<i>Patrice Caire, Leendert Van Der Torre</i>	

USING VISUAL ATTENTION TO EVALUATE COLLABORATIVE CONTROL ARCHITECTURES FOR HUMAN ROBOT INTERACTION	143
<i>Tom Carlson, Yiannis Demiris</i>	
DOES EMBEDDEDNESS TELL AGAINST COMPUTATIONALISM? A TALE OF BEES AND SEA HARES.....	149
<i>Matteo Colombo</i>	
TOWARD THERAPIST-IN-THE-LOOP ASSISTIVE ROBOTICS FOR CHILDREN WITH AUTISM AND SPECIFIC LANGUAGE IMPAIRMENT.....	155
<i>Mark B. Colton, Daniel J. Ricks, Michael A. Goodrich, Behzad Dariush, Kikuo Fujimura, Martin Fujiki</i>	
ON THE USE OF SHARPE'S INDEX IN EVOLUTIONARY PORTFOLIO OPTIMIZATION UNDER MARKOWITZ'S MODEL	160
<i>Feijoo Colomine Duran, Carlos Cotta, Antonio J. Fernandez</i>	
CREW INTELLIGENCE SYSTEMS FOR DIGITAL OBJECTS PRESERVATION	166
<i>Josep Lluís De La Rosa, Esteve Del Acebo, Albert Trias, Silvana Aciar, Hugo Quisbert</i>	
CREATING TRUSTWORTHY ROBOTS: LESSONS AND INSPIRATIONS FROM AUTOMATED SYSTEMS	174
<i>Munjal Desai, Kristen Stubbs, Aaron Steinfeld, Holly Yanco</i>	
SPATIAL FOUNDINGS FOR MEANINGFUL SYMBOLS.....	182
<i>Stefan Dietze, Vlad Tanasescu</i>	
CONSTRUCTING A RHETORICAL FIGURATION ONTOLOGY	186
<i>Randy Harris, Chrysanne Dimarco</i>	
PROTECTING THE PRIVACY OF PERSONAL SMART SPACES	192
<i>Kajetan Dolinar, Elizabeth Papadopoulou, Nicolas Liampotis, Yussuf Abu-Shaaban, Ioanna Roussaki</i>	
THE EMERGENCE OF SHARED SOCIAL REPRESENTATIONS IN COMPLEX NETWORKS	200
<i>Davide Donetto, Federico Cecconi</i>	
WHO'S AFRAID OF VIRTUAL HUMANS?.....	204
<i>Claude Draude</i>	
USING ON-BOARD DRIVER FEEDBACK SYSTEMS TO ENCOURAGE SAFE, ECOLOGICAL AND EFFICIENT DRIVING: THE FOOT-LITE PROJECT	211
<i>R. G. Fairchild, J. F. Brake, N. Thorpe, S. A. Birrell, M. S. Young, T. Felstead, M. Fowkes</i>	
TRUST AND RELATIONAL CAPITAL.....	215
<i>Cristiano Castelfranchi, Rino Falcone, Francesca Marzo</i>	
CONVERTING CLASSIFICATIONS INTO OWL ONTOLOGIES.....	221
<i>Fausto Giunchiglia, Ilya Zaihrayeu, Feroz Farazi</i>	
SOCIAL NETWORKING SITES AS PLATFORMS TO PERSUADE BEHAVIOUR CHANGE IN DOMESTIC ENERGY CONSUMPTION	237
<i>Derek Foster, Mark Blythe, Shaun Lawson, Mark Doughty</i>	
A HYBRID PREFERENCE LEARNING AND CONTEXT REFINEMENT ARCHITECTURE	243
<i>Korbinian Frank, Patrick Robertson, Sarah McBurney, Nikos Kalatzis, Ioanna Roussaki, Marco Marengo</i>	
COMPUTATIONAL MODEL AND THE HUMAN PERCEPTION OF EMOTIONAL BODY LANGUAGE (EBL).....	250
<i>Marina Fridin, Avi Barliya, Edna Schechtman, Beatrice De Gelder, Tamar Flash</i>	
MULTILINGUAL ONTOLOGY MAPPING: CHALLENGES AND A PROPOSED FRAMEWORK.....	254
<i>Bo Fu, Rob Brennan, Declan O'Sullivan</i>	
EXAMPLE-ASSIGNMENT TO WORDNET THESAURUS BASED ON DISTRIBUTIONAL SIMILARITY OF WORDS.....	257
<i>Fumiyo Fukumoto, Nik Adilah Hanin Binti Zahri</i>	
SOCIAL EVALUATIONS AND NETWORKS: A PROPOSAL FOR INTEGRATION.....	262
<i>Francesca Giardini</i>	
INFERENCE TO THE BEST EXPLANATION: A COMPARISON OF APPROACHES	267
<i>David H. Glass</i>	
HAPTIC CONTROL FOR THE INTERACTIVE BEHAVIOR OPERATED SHOPPING TROLLEY INBOT	273
<i>Michael Goller, Thilo Kerscher, Marco Ziegenmeyer, Arne Ronnau, J. Marius Zollner, Rudiger Dillmann</i>	
MODELLING NETWORK-ENABLED C2 USING MULTIPLE AGENTS AND SOCIAL NETWORKS.....	281
<i>Tim Grant</i>	
A TAXONOMY OF VIDEO GAMES AND AI	287
<i>E. A. A. Gunn, B. G. W. Craenen, E. Hart</i>	
FACILITATING THE PERCEPTION OF ANGER AND FEAR IN MALE AND FEMALE WALKERS.....	298
<i>Shaun Halovic, Christian Kroos</i>	

UNCONSCIOUS PERSUASION BY AMBIENT PERSUASIVE TECHNOLOGY: EVIDENCE FOR THE EFFECTIVITY OF SUBLIMINAL FEEDBACK.....	303
<i>Jaap Ham, Cees Midden, Femke Beute</i>	
INTERMEDIATE SELECTION PRESSURE BRING IN THE EMERGENCE OF ALTRUISM AND COMMON WORDS.....	309
<i>Yoshimitsu Hashizume, Jun Nishii</i>	
TECHNOLOGY IN THE AMBIENT AGE: BACK TO NATURE.....	315
<i>Dirk Heylen</i>	
SERIOUS GAMES TO TEACH ETHICS	319
<i>Rania Hodhod, Daniel Kudenko, Paul Cairns</i>	
ATTACKING THE KNOWLEDGE ACQUISITION BOTTLENECK THROUGH GAMES-FOR-MODELLING.....	329
<i>S. J. B. A. Hoppenbrouwers, P. J. F. Lucas</i>	
AUDIO DESCRIPTION OF EMOTIONS IN FILMS USING EYE TRACKING.....	335
<i>Paula Igareda, Alejandro Maiche</i>	
NOISE AND BIAS FOR FREE : PERPLEXUS AS A MATERIAL PLATFORM FOR EMBODIED THOUGHT-EXPERIMENTS	339
<i>Olivier Jorand, Andres Perez-Uribe, Henri Volken, Andres Upegui, Yann Thoma, Eduardo Sanchez, Francesco Mondada, Philippe Retornaz</i>	
HAPTIC SPACE AND BODILY EXPRESSIONS: A BI-DIRECTIONAL RELATION OF AFFECT.....	346
<i>Myrto Karanika</i>	
TOWARDS A SYSTEM-THEORETIC MODEL FOR TRANSITION OF AFFECT.....	349
<i>Michelle Karg, Kolja Kuhlentz, Martin Buss</i>	
GENE EXPRESSION CLASSIFICATION USING MULTI-OBJECTIVE ENSEMBLES	357
<i>Ed Keedwell, Ajit Narayanan</i>	
PHOTOGEOMETRIC SENSING FOR MOBILE ROBOT CONTROL AND VISUALISATION TASKS.....	363
<i>Alonzo Kelly, Dean Anderson, Erin Capstick, Herman Herman, Pete Rander</i>	
INTERACTIVE CONTENT SYSTEM BASED ON SPATIAL AUGMENTED REALITY AND MULTI TOUCH SCREEN	371
<i>Kim Jung-Hoon, Kim Ki-Hyun, Yun Tae-Soo, Lee Dong-Hoon</i>	
A DYNAMIC CONNECTION CAPABILITY FOR PERVASIVE ADAPTIVE ENVIRONMENTS USING JCSP.....	373
<i>Anna Kosek, Aly Syed, Jon Kerridge, Alistair Armitage</i>	
A WOZ FRAMEWORK FOR EXPLORING MISCOMMUNICATION IN HRI.....	381
<i>Theodora Koulouri, Stasha Lauria</i>	
VIDEO OBSERVATION OF HUMANOID ROBOT MOVEMENTS ELICITS MOTOR INTERFERENCE	389
<i>Aleksandra Kupferberg, Stefan Glasauer, Markus Huber, Markus Rickert, Alois Knoll, Thomas Brandt</i>	
SMART SPACE A NEW DIMENSION OF CONTEXT	394
<i>Luca Lamorte, Claudio Venezia</i>	
CONCEPTUALISATION OF AN APPLICATION OF ADAPTIVE SYNTHETIC SOCIOECONOMIC AGENTS FOR INTELLIGENT NETWORK CONTROL	400
<i>Doug Legge, Atta Badii</i>	
THE EFFECTS OF INITIAL SOLUTION GENERATORS UNDER GENETIC ALGORITHM FRAMEWORK FOR THE HETEROGENEOUS PROBABILISTIC TSP.....	408
<i>Yu-Hsin Liu</i>	
THE ROLE OF EXPECTATIONS IN HRI.....	414
<i>Manja Lohse</i>	
USEFULNESS OF SIMULATING SOCIAL PHENOMENA.....	422
<i>Pablo Lucas</i>	
GIVING THE USER EXPLICIT CONTROL OVER IMPLICIT PERSONALISATION.....	428
<i>Sarah McBurney, Nick Taylor, Howard Williams, Eliza Papadopoulou</i>	
UTILITY SEEKING IN COMPLEX SOCIAL SYSTEMS: AN APPLIED LONGITUDINAL NETWORK STUDY ON COMMAND AND CONTROL	432
<i>Joshua Lospinoso, Ian McCulloh, Kathleen M. Carley</i>	
ITERATIVE DESIGN PROCESS FOR ROBOTS WITH PERSONALITY	438
<i>Bernt Meerbeek, Martin Saerbeck, Christoph Bartneck</i>	
AN ANT-LIKE TASK ALLOCATION MODEL FOR A SWARM OF HETEROGENEOUS ROBOTS	446
<i>Sifat Momen, Amanda J. C. Sharkey</i>	
ADAPTIVE GENE EXPRESSION PROGRAMMING USING A SIMPLE FEEDBACK HEURISTIC	454
<i>Jonathan Mwaura, Ed Keedwell</i>	

SIMULATING TIME	460
<i>Michael Nicolaïdis</i>	
TOWARDS INSTANCE COREFERENCE RESOLUTION IN A MULTI-ONTOLOGY ENVIRONMENT	468
<i>Andriy Nikolov, Victoria Uren, Enrico Motta, Anne De Roeck</i>	
WEBSITE CREDIBILITY AND INTERVENTION EFFECTIVENESS	471
<i>Thomas Nind, Jeremy Wyatt, Ian Ricketts, Paul McPate, Joseph Liu</i>	
ONTOLOGY CORRESPONDENCE VIA THEORY INTERPRETATION	475
<i>Immanuel Normann, Oliver Kutz</i>	
MULTI-AGENT SYSTEMS AND SANDBOX GAMES	479
<i>Sergio Ocio, Jose Antonio Lopez Brugos</i>	
ONTOLOGY EVOLUTION THROUGH AGENT COLLABORATION	484
<i>Heather S. Packer, Nicholas Gibbins, Nicholas R. Jennings</i>	
MALE BODILY RESPONSES TOWARDS A VIRTUAL WOMAN	488
<i>Xueni Pan, Marco Gillies, Mel Slater</i>	
TOWARDS A COMPUTATIONAL MODEL OF EMBODIED MATHEMATICAL LANGUAGE	490
<i>A. Pease, P. Crook, A. Smaill, S. Colton, M. Guhe</i>	
ADAPTIVE PERSUASIVE SCRIPTS	493
<i>Maria E. Pertou, Henrik Scharfe</i>	
METROPED: A TOOL FOR SUPPORTING CROWDS OF PEDESTRIAN AI'S IN URBAN ENVIRONMENTS	497
<i>Christopher Peters, Carol O' Sullivan</i>	
MULTI-OBJECTIVE OPTIMIZATION OF CANCER CHEMOTHERAPY USING SWARM INTELLIGENCE	503
<i>Andrei Petrovski, John McCall, Bhavani Sudha</i>	
MICRO-SOCIAL SYSTEMS: INTERLEAVING AGENTS, NORMS AND SOCIAL NETWORKS	509
<i>Moez Draief, Jeremy Pitt, Daniel Ramirez-Cano</i>	
MULTI-AGENT SYSTEMS AND VIRTUAL PRODUCERS IN ELECTRONIC MARKETPLACES	515
<i>Isabel Praca, Maria Joao Viamonte, Hugo Morais, Zita Vale, Carlos Ramos</i>	
ONTOLOGY EVOLUTION IN LEGAL REASONING: A STUDY OF ONTOLOGY INTERPRETATION (EXTENDED ABSTRACT)	521
<i>Andrew Priddle-Higson</i>	
USING NEURAL NETWORKS FOR STRATEGY SELECTION IN REAL-TIME STRATEGY GAMES	523
<i>Thomas Randall, Peter Cowling, Roderick Baker, Ping Jiang</i>	
AFFECTIVE-CENTERED DESIGN FOR INTERACTIVE ROBOTS	531
<i>Laurel D. Riek, Peter Robinson</i>	
FAITH IN THE ALGORITHM, PART 1: BEYOND THE TURING TEST	538
<i>Marko A. Rodriguez, Alberto Pepe</i>	
THE GROWTH PLAN: AN APPROACH FOR CONSIDERING SOCIAL IMPLICATIONS IN AMBIENT INTELLIGENT SYSTEM DESIGN	543
<i>Philip Ross, Oscar Tomico</i>	
HOW TO MAKE PERSONAL SMART SPACES CONTEXT-AWARE	548
<i>Ioanna Roussaki, Nicolas Liampotis, Nikos Kalatzis, Korbinian Frank, Patrick Hayden</i>	
THE PARADOX OF ELEGANCE – A VERY SHORT INTRODUCTION TO THE TOPOLOGY OF COMPLEX SOCIAL SYSTEMS AND THE “SMALL WORLD”-PARADIGM IN THE REALM OF LAW	555
<i>Ugo Pagallo, Giancarlo Ruffo</i>	
AN ANALYSIS OF THE PERSUASIVE STRENGTH OF ARGUMENTS IN PROCEDURAL TEXTS	559
<i>Lionel Fontan, Patrick Saint-Dizier</i>	
UBIQUITOUS COMPUTING AND PERVASIVE ADAPTATION OF SOCIAL NORMS INWORKPLACE DESIGN	563
<i>Monica Sara Santos, Jeremy Pitt</i>	
AFFECT IN AUTONOMOUS ARTIFICIAL SYSTEMS: INTERFACING TECHNOLOGY AND PHILOSOPHY	567
<i>Chryssa Sdrolia</i>	
HEALTHY PERSUASION: WEB SITES THAT YOU CAN TRUST	572
<i>Elizabeth Sillence, Pam Briggs, Peter R. Harris</i>	
FROM “BABY STUFF” TO THEWORLD OF ADULT SCIENCE: DEVELOPMENTAL AI FROM A KANTIAN VIEWPOINT	575
<i>Aaron Sloman</i>	
RELATING SMALL ONTOLOGIES	582
<i>Alan Smaill, Markus Guhe, Alison Pease</i>	

PRO OR CONTRA? PERSUASION IN THE POTSDAM COMMENTARY CORPUS	583
<i>Manfred Stede</i>	
PERSUASION AT THE MUSEUM CAFÉ: INITIAL EVALUATION OF A TABLETOP DISPLAY INFLUENCING GROUP CONVERSATION	585
<i>Cesare Rocchi, Oliviero Stock, Massimo Zancanaro, Fabio Pianesi, Daniel Tomasini</i>	
DETECTING UNKNOWN WORD SENSES USING CONCEPT DICTIONARY	591
<i>Yoshimi Suzuki, Fumiyo Fukumoto</i>	
THE BOY-ROBOT SHOULD BARK! – CHILDREN’S IMPRESSIONS OF AGENT MIGRATION INTO DIVERSE EMBODIMENTS	594
<i>Dag Sverre Syrdal, Kheng Lee Koay, Michael L. Walters, Kerstin Dautenhahn</i>	
THE NEGATIVE ATTITUDES TOWARDS ROBOTS SCALE AND REACTIONS TO ROBOT BEHAVIOUR IN A LIVE HUMAN-ROBOT INTERACTION STUDY	600
<i>Dag Sverre Syrdal, Kerstin Dautenhahn, Kheng Lee Koay, Michael L. Walters</i>	
EVALUATION OF ONTOLOGY MAPPING REPRESENTATIONS	607
<i>Hendrik Thomas, Declan O’Sullivan, Rob Brennan</i>	
ETHICAL IMPLEMENTATION: A CHALLENGE FOR MACHINE ETHICS	612
<i>Ryan S. Tonkens</i>	
THE ADVANTAGE OF MOBILITY: MOBILE TELE-OPERATION FOR MOBILE ROBOTS	620
<i>Alberto Valero, Gabriele Randelli, Chiara Saracini, Fabiano Botta, Massimo Mecella</i>	
ACTUAL AND IMAGINED MOVEMENT IN BCI GAMING	628
<i>Bram Van De Laar, Danny Oude Bos, Boris Reuderink, Dirk Heylen</i>	
TO FORGET OR NOT TO FORGET: TOWARDS A ROBOETHICAL MEMORY CONTROL	633
<i>Patricia A. Vargas, Wan Ching Ho, Meiyii Lim, Sibylle Enz, Ruth Aylett</i>	
FOURWAYS TO CHANGE COALITIONS: AGENTS, DEPENDENCIES, NORMS AND INTERNAL DYNAMICS	639
<i>Leendert Van Der Torre, Serena Villata</i>	
BABY STEPS: A DESIGN PROPOSAL FOR MORE BELIEVABLE MOTION IN AN INFANT-SIZED ANDROID	645
<i>Silpa Wairatpanij, Himalaya Patel, Gary D. Cravens, Karl F. Macdorman</i>	
PREFERENCES AND PERCEPTIONS OF ROBOT APPEARANCE AND EMBODIMENT IN HUMAN-ROBOT INTERACTION TRIALS	651
<i>Michael L. Walters, Kheng Lee Koay, Dag Sverre Syrdal, Kerstin Dautenhahn, René Te Boekhorst</i>	
AN EMPIRICAL FRAMEWORK FOR HUMAN-ROBOT PROXEMICS	659
<i>Michael L Walters, Kerstin Dautenhahn, René Te Boekhorst, Kheng Lee Koay, Dag Sverre Syrdal, Chrystopher L. Nehaniv</i>	
DEALING WITH UNCERTAINTY ISSUES IN COMPLEX ONTOLOGY MATCHING	665
<i>Ying Wang, Weiru Liu, David Bell</i>	
ADDRESSING USER EXPERIENCE AND SOCIETAL IMPACT IN A USER STUDY WITH A HUMANOID ROBOT	669
<i>Astrid Weiss, Regina Bernhaupt, Manfred Tscheligi, Eiichi Yoshida</i>	
THE USUS EVALUATION FRAMEWORK FOR HUMAN-ROBOT INTERACTION	677
<i>Astrid Weiss, Regina Bernhaupt, Michael Lankes, Manfred Tscheligi</i>	
MAPPING PERSUASIVE DIALOGUE GAMES ONTO ARGUMENTATION STRUCTURES	685
<i>Andrew Ravenscroft, Simon Wells, Musbah Sagar, Chris Reed</i>	
INTRODUCTION TO THE LIFEGUIDE: SOFTWARE FACILITATING THE DEVELOPMENT OF INTERACTIVE BEHAVIOUR CHANGE INTERNET INTERVENTIONS	689
<i>Lucy Yardley, Adrian Osmond, Jonathon Hare, Gary Wills, Mark Weal, Dave De Roure, Susan Michie</i>	
MULTI-TOUCH DISPLAY SYSTEM FOR AR CARD GAME	693
<i>Sang Heon Han, Chang Ok Yun, Tae Soo Yun, Dong Hoon Lee</i>	
CAMERA SYSTEM FOR INTERACTION IN GOLF GAME	695
<i>Ki Hyun Kim, Chang Ok Yun, Hyunwoo Park, Woo Suk Joo, Dong Hoon Lee, Tae Soo Yun</i>	
ONTOLOGY EVOLUTION: A PRACTICAL APPROACH	697
<i>Fouad Zabli</i>	
AUTOMATED ACCESS CONTROL RULE GENERATION VIA SEMANTIC MATCHING	700
<i>Rui Zhang</i>	
AUTOMATED EVENT RECOGNITION FOR FOOTBALL COMMENTARY GENERATION	704
<i>Maliang Zheng, Daniel Kudenko</i>	

(SNAMAS-09) SYMPOSIUM

SOCIAL NETWORKS AND MULTI-AGENT SYSTEMS SYMPOSIUM INTRODUCTION (SNAMAS-09) SYMPOSIUM TABLE OF CONTENTS BEGINS ON PAGE (714)	713
<i>Giulia Andrighetto, Guido Boella, Jaime Sichman, Harko Verhagen</i>	

Author Index