AGI-08 Program Saturday, March 1st, 2008

(Opening Session Conference Introduction [Stan Franklin] Review of Past and Present AGI Research [Ben Goertzel] 	9:00–10:30
(Coffee Break	10:30-11:00
	 Technical Session I: Overview of AGI Research [Session Chair: Eric Baum] Seven Principles of Synthetic Intelligence [Joscha Bach] Four Paths to AI [Jonathan Connell, Kenneth Livingston] Cognitive Architectures: Where Do We Go From Here? [Wlodzislaw Duch, Richard Oentaryo, Michel Pasquier] What Do You Mean by "AI"? [Pei Wang] 	11:00-12:30
l	Lunch (On Your Own)	12:30-2:00
	 Technical Session II: Architecture of AGI Systems [Session Chair: Sam S. Adams] Governing Lethal Behavior: Embedding Ethics in a Hybrid Deliberative/Reactive Robot Architecture [Ronald Arkin] LIDA and a Theory of Mind [David Friedlander, Stan Franklin] Learning from Inconsistencies in an Integrated Cognitive Architecture [Kai-Uwe Kühnberger, Peter Geibel, Helmar Gust, Ulf Krumnack, Ekaterina Ovchinnikova, Angela Schwering, Tonio Wandmacher] Extending the Soar Cognitive Architecture [John Laird] OSCAR: An Architecture for Generally Intelligent Agents [John Pollock] Cognitive Constructor: An Intelligent Tutoring System Based on a Biologically Inspired Cognitive Architecture [Alexei Samsonovich] 	2:00-4:00
(Coffee Break	4:00-4:30
	 Technical Session # 3: Language and Cognition [Session Chair – Stephen Reed] Language Processing in Human Brain [Alexander Borzenko] A Cognitive Substrate for Natural Language Understanding [Nick Cassimatis, Arthi Murugesana] Anticipative Coordinated Cognitive Processes for Interactivist and Piagetian Theories [Jean-Charles Quinton, Jean-Christophe Buisson, Filipo Perotto] Using Decision Trees to Model an Emotional Attention Mechanism [Saman Harati Zadeh, Saeed Bagheri Shouraki, Ramin Halavati] 	4:30-6:00

Reception and Poster Session

[Session Co-chairs: Lee McCauley and Sidney D'Mello]

- Reasoning with Prioritized Data by Aggregation of Distance Functions [Ofer Arieli]
- Distance-Based Non-Deterministic Semantics [Ofer Arieli, Anna Zamansky]
- Fusing Animals and Humans [Jonathan Connell]
- Variac: an Autogenous Cognitive Architecture [J. Storrs Hall]
- Artificial General Intelligence via Finite Covering with Learning [Yong Hwang, Samuel Hwang, David Hwang]
- Cognitive Primitives for Automated Learning [Sudharsan lyengar]
- Essential Phenomena of General Intelligence [Marc Pickett, Don Miner, Tim Oates]
- Analogy as Integrating Framework for Human-Level Reasoning [Angela Schwering, Ulf Krumnack, Kai-Uwe Kühnberger, Helmar Gust]
- Designing Knowledge Based Systems as Complex Adaptive Systems [Karan Sharma]
- Artificial General Intelligence: An Organism and Level Based Position Statement [Leslie Smith]
- Real-time Machine Deduction and AGI [Peter Tripodes]
- Text Disambiguation by Educable AI System [Alexander Voskresenskij]

AGI-08 Program Sunday, March 2nd, 2008

Technical Session # 4 : Reasoning [Session Chair: Steve Omohundro] Probabilistic Quantifier Logic for General Intelligence: An Indefinite Probabilities Approach [Matthew Ikle, Ben Goertzel] 9:00-10:15 Comirit: Commonsense Reasoning by Integrating Simulation and Logic [Benjamin Johnston, Mary-Anne Williams1 • Hybrid Reasoning and the Future of Iconic Representations [Catherine Recanati] Coffee Break 10:15-10:45 Technical Session # 5: Learning [Chair: J. Storrs Hall] Participating in Cognition: The Interactive Search Optimization Algorithm [Israel Gottlieb, Nadav Abkasis, Eliraz Itzchaki] Adversarial Sequence Prediction [Bill Hibbard] • Artificial General Intelligence through Large-Scale, Multimodal Bayesian Learning [Brian Milch] 10:45-12:30 • A Computational Approximation to the AIXI Model [Sergey Pankov1 Transfer Learning and Intelligence: an Argument and Approach [Matthew Taylor, Gregory Kuhlmann, Peter Stone] Lunch (On Your Own) 12:30-2:00 Technical Session # 6: Virtually Embodied AI [Session Chair: Sibley Verbek] Toward Cognitively Robust Synthetic Characters in Digital Environments [Selmer Bringsjord, Andrew Shilliday, Micah Clark, Dan Werner, Joshua Taylor, Alexander Bringsjord, Ed Charpentier] • An Integrative Methodology for Teaching Embodied Non-2:00-3:15 Linguistic Agents [Ben Goertzel, Cassio Pennachin, Nil Geissweiller, Moshe Looks, Andre Senna, Welter Silva, Ari Heljakka, Carlos Lopes] Temporal Action Logic for Question Answering in an Adventure Game [Martin Magnusson, Patrick Doherty] Coffee Break 3:15-3:45 Discussion Session: Catalyzing the Coming AGI 3:45-5:15 Renaissance [Session Chair: Stan Franklin] Banquet [Holiday Inn] 6:00-8:00 Business Meeting [Chair:Stan Franklin] [Room 405] 8:00-9:30

AGI-08 Program Monday, March 3rd, 2008

Technical Session # 7: Neural Network and Brain Modeling [Session Chair: Randal Koene]

- Recurrent Feedback Neuronal Networks: Classification and Inference Based on Network Structure [Tsvi Achler, Eyal Amir]
- The China-Brain Project: Building China's Artificial Brain Using An Evolved Neural Net Module Approach [Hugo de Garis]
 How Might Probabilistic Possoning Emorgo from the Brain?
- How Might Probabilistic Reasoning Emerge from the Brain?
 [Ben Goertzel, Cassio Pennachin]
- Vector Symbolic Architectures: A New Building Material for Artificial General Intelligence [Simon Levy, Ross Gayler]

Coffee Break10:30-11:00Panel Discussion: Future Directions for AGI Research
[Session Chair: Ben Goertzel]11:00-12:30