



STeP 2008



13th Finnish Artificial Intelligence Conference
Helsinki, Finland, August 20-22, 2008

Call for papers:

STeP 2008 is the 13th Finnish Artificial Intelligence Conference and it will be held in the Helsinki University of Technology and Nokia Research Center, Finland, on August 20-22, 2008. The first day consists of conference sessions, and the second and third days are for the Nokia Workshop on Machine Consciousness with 14 invited talks.

Contributions (4-8 pages, double column) are invited on any topic in Artificial Intelligence. The first day is divided into two parallel sessions: one for general AI topics, and another for a special session on the semantic web. Work in progress and recently published work is also welcome, as long as there are no copyright conflicts.

The papers will be published in the Proceedings of the Finnish Artificial Intelligence Conference (STeP 2008), Espoo, Finland, Publications of the Finnish Artificial Intelligence Society, August 2008. The proceedings will appear both in printed form and in the web.

The conference will be co-organized by the Finnish Artificial Intelligence Society and by the Helsinki University of Technology.

Important dates:

- 4 August: Deadline for paper submission (4-8 pages double column)
- 4 August: Early registration deadline
- 20 August: Conference sessions at Helsinki University of Technology
- 21-22 August: NOKIA Workshop on Machine Consciousness, Ruoholahti

More information: www.stes.fi/step2008

Helsinki, Finland, August 21. – 22. 2008

Nokia Research Center, Itämerenkatu 11 – 13, Helsinki

Tentative Program (changes possible)

Thursday, 21.8. 2008

- 9:00 – 9:15 Welcoming words by Nokia Management
9:15 – 10:00 Introductory speech by Prof. Igor Aleksander
10:00 – 10:30 Coffee break
Session 1. Consciousness Models; session chairman Riccardo Manzotti
10:30 – 11:00 Antonio Chella: *Robotanic: an externalist outlook of a robot architecture*
11:00 – 11:30 Will Browne: *Emotional cognitive steps towards consciousness*
11:30 – 12:00 Ricardo Sanz: *Systems, models and self-awareness: A SysML model of consciousness*
12:00 – 13:00 Lunch
Session 2. Systems and Architectures; session chairman Ricardo Sanz
13:00 – 13:30 Ben Goertzel: *Achieving advanced machine consciousness through integrative, virtually embodied artificial general intelligence*
13:30 – 14:00 Yasuo Kinouchi: *A logical model of consciousness on a neural network system with a simple abstract brain-like structure*
14:00 – 14:30 Harri Valpola: *The engine of thought - a bio-inspired mechanism for distributed selection of useful information*
14:30 – 15:00 Uma Ramamurthy: *TBA*
15:00 – 15:30 Coffee break
15:30 – 17:00 **Round Table Discussion;** moderator Prof. Igor Aleksander

Friday, 22.8. 2008

- 9:00 – 9:05 Introduction to day 2
Session 3. Imagination and Phenomenology; session chairman Germund Hesslow
9:05 – 9:35 Hugo Gravato Marques: *Imagination in an anthropomimetic robot*
9:35 – 10:05 David Gamez: *A systematic approach to synthetic phenomenology*
10:05 – 10:30 Coffee break
Session 4. Phenomenology and Qualia; session chairman Antonio Chella
10:30 – 11:00 Riccardo Manzotti: *Physical foundations of phenomenal content in a conscious machine*
11:00 – 11:30 Germund Hesslow: *Qualia and how to make a machine have them (tentative title)*
11:30 – 12:00 Pentti Haikonen: *The role of qualia in machine consciousness; nothing or everything?*
12:00 – 13:00 Lunch
Session 5. Special Issues; session chairman Pentti Haikonen
13:00 – 13:30 Markku Åberg: *Neuron microchips*
13:30 – 14:00 Raúl Arrabales Moreno: *ConsScale: A plausible test for machine consciousness?*
14:00 – 14:30 Emmanuel Lesser, Charles Jorgensen: *A Cognitive Approach to Silent Speech Recognition*
14:30 – 15:00 Coffee break
15:00 – 17:00 **Concluding Discussion;** moderator TBA

End of workshop