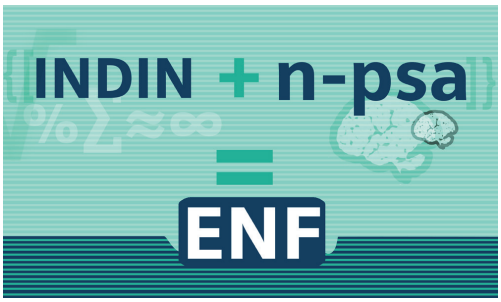

ENF 2007
Emulating the Mind

www.indin2007.org/enf

1st International Engineering & Neuro-Psychoanalysis Forum

July 23, 2007, Vienna, Austria

A joint forum accompanying two international conferences:
8th N-PSA 2007 (July 20 - 22, 2007) & 5th IEEE INDIN 2007 (July 24 - 26, 2007)

Program:
Two completely different scientific worlds are to be brought together in order to discuss fundamental problems – a big challenge for communication and mutual understanding. Therefore, this extraordinary workshop has an extraordinary agenda.

An internationally recognized personality of computational intelligence sets the ball rolling with a first presentation, spanning from the state of the art to modern visions. Subsequently, a group of computer scientists present results of their research on a model, based on Freud and Lurija. Neuro-psychoanalysts complete the session of presentations with an answer to this work. Finally all participants are involved, first with a fishbowl discussion and then with a short workshop in groups.

Scope:
With the advent of ubiquitous computing the complexity of systems in several fields, including building and industrial automation has increased exponentially over the past decade. The number of intelligent network nodes occurring in such systems is likely to increase to several million in the foreseeable future. In order to enhance the services and cognitive capabilities of these systems, Artificial Intelligence must radically increase the levels of abstraction – something that is not feasible with currently available tools.

More than 100 years ago Sigmund Freud revolutionized the fields of medicine and psychology with his scientific understanding of the human mind.
During the past decade neuro-psychoanalysts have worked on integrating the highly abstract concepts of psychoanalysis with lower levels of abstraction in the neurosciences. At the same time current developments in the field of computer sciences were heading towards ever higher levels of abstraction. These concurring developments give rise to the idea that engineers could use psychoanalytic concepts for machine thinking systems.

Goal:
Engineers and psychoanalysts come from very different scientific cultures. Our goal is to reduce the gap between the cultures of these two communities by providing a common forum, which is to take place as a one-day workshop – positioned between the International Neuro-Psychoanalysis Congress (N-PSA 2007), and the IEEE International Conference on Industrial Informatics (INDIN 2007).

This forum is designed to facilitate communication, interaction and mutual understanding between the two fields and thereby expand the prospects of investigating common approaches for the analysis, comprehension, description, and synthesis of intelligent systems.

The dialogue could lead to more precise definitions of psychological concepts used at present by examining them from the perspective of a radically different discipline within the field of engineering.

For engineers a new perspective on modelling machine intelligence is to be revealed as the essence of the human mind is spelled out, allowing its complexity to be incorporated into machines and intelligent devices.

Important dates:
September 2006
Registration

June 15, 2007
Proceedings available

July 23, 2007
ENF Forum
Vienna, Austria

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