

Second Call for Extended Abstracts
The First International Workshop on Cognitonics
in conjunction with the Multi-Conference “Information Society 2009”
(October 12, 2009, Jozef Stefan Institute, Ljubljana, Slovenia,
http://is.ijs.si/urnik_eng.asp?lang=eng)

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Workshop Theme

One of the most important negative aspects of quick technological development in the modern information society are the observed shifts in the systems of values of people. *The first shift* is the shift from the eternal values to commercialized values. *The second shift* is a consequence of the underestimation of the value of national cultures in contrast to the overestimation of the on-going processes of globalization (by the young generation, in particular). *The third shift* is dealing with the existing gap between the rational, pragmatic, self-oriented development and spiritually-coloured emotional development of the personality. The expanding gap destroys the integrity of the human nature.

The goal of the workshop is to start combing the efforts of the scholars from numerous scientific fields in order to establish a new synergy aimed at supporting the harmonic development of the personality in the modern information society and, as a consequence, to compensate a number of negative shifts in the systems of values of people taking place in this society. It is intended to establish this synergy under the framework of a new scientific discipline – Cognitonics.

Now only initial configuration of Cognitonics does exist. The scholars from various fields will be able to considerably expand this initial configuration, proceeding from their scientific backgrounds and national cultures.

The workshop (being a part of the Conference on Cognitive Sciences) will have two tracks:

- (1) Humanities Track
- (2) Computer Science and Web Science Track

The working language of the workshop is English.

The participants of the workshop register for the Multi-Conference “Information Society-2009” (Jozef Stefan Institute, Ljubljana, Slovenia)

Important Dates

Extended abstract (one-two pages)
and/or a Preliminary Registration Form
Authors Notification
Full Paper (for the Proceedings of

March 7, 2009
March 30, 2009

Information Society 2009)
Invitation to the authors of best papers
to prepare an expanded paper for a Special Issue
of an International Journal or for a Book
Expanded Paper

April 30, 2009

May 30, 2009
September 15, 2009

Goals of Cognitonics

There are weighty grounds to believe that the modern information society has accumulated a lot of such problems concerning the development/underdevelopment of the personality that for solving these problems it is necessary and possible to elaborate a unified, fundamental approach. This approach is the creation of a new scientific discipline – *Cognitonics* (see *Informatica. An International Journal of Computing and Informatics* (Slovenia), 2006, Vol. 30, No. 4, pp. 387-398, URL www.informatica.si/vol30.htm#No4).

Cognitonics is aimed at keeping the integrity of the nature of the human being and, consequently, conducing to overcoming a gap between spiritual, emotional and intellectual (rational, pragmatic) development of the person in the new reality of swift changes, technological challenges, and globalization. Cognitonics is studying and looking for the ways of improving cognitive mechanisms of processing information and developing emotional sphere of the personality – the ways aiming at compensating three mentioned shifts in the systems of values and, as an indirect consequence, for the ways of developing symbolic information processing skills of the learners, linguistic mechanisms, associative and reasoning abilities, broad mental outlook being important preconditions of successful work practically in every sphere of professional activity in information society.

From the standpoint of educational practice, Cognitonics proposes an answer to the following question: *what precious ideas and images* accumulated by the mankind, *at what age*, and in *what a way* are to be inscribed into the conceptual picture of the world of a person in order to harmonize his/her intellectual and spiritually-coloured emotional development.

Cognitonics formulates a new, large-scale goal for the software industry and Web science: to develop a new generation of culture-oriented computer programs and online courses (in the collaboration with educators, linguists, art historians, psychologists) – the programs and online courses intended for supporting and developing creativity, cognitive-emotional sphere, the appreciation of the roots of the national cultures, the awareness of the integrity of the cultural space in the information society, and for developing symbolic information processing and linguistic skills, associative and reasoning abilities of children.

Aims and Topics (their list is not exhaustive)

(1) Humanities Track

- The methods and experience of developing a broad mental outlook and creativity,
- Establishing ties between self-paced activity and the necessity to keep pace with time,

- Looking for the philosophical roots of modern technological achievements and forecasting their impact on the nature of human being,
- Looking for the new ways of introducing the eternal values of the humanity and the changes in the perception of the world in the educational programs in the form of cross-disciplinary courses,
- Analyzing the negative shifts in the modern society and the response of the young generation to these shifts.

(2) Computer Science and Web Science Track

(2-1) The methods of designing and experience of using culture-oriented computer intelligent systems (local computer network based or Web-based) for:

- developing linguistic mechanisms of young children, teenagers, university students, and adult learners,
- expanding mental outlook through learning history, literature, poetry, art, architecture, ecology, etc.;

(2-2) The structure of online courses for developing linguistic mechanisms and expanding mental outlook of the learners,

(2-3) cognitive preconditions of introducing children to computers.

Format and Way of Submitting Abstracts and/or Preliminary Registr. Forms

A plain text message or a Word file with the extension .DOC (not .DOCX) or Word RTF file with the extension .RTF via e-mail at EACH of the following addresses:

vdrfom@aha.ru; vfomichov@hse.ru

PRELIMINARY REGISTRATION FORM

Last name, First Name, Title (in particular, Ms. or Mr.):

Position, Institution:

Postal Address:

E-mail:

Fax number:

Phone Number (optional):

Do you plan to submit a paper?: Yes/No

Preliminary title of the paper (if applicable)

Do you plan to attend the Workshop? Yes/No

I need the following technical equipment: