

Vetrov Anatoly Nikolaevich, author of the unique cognitive modeling technology  
www.vetrovan.(spb.)ru  
The RF, Saint-Petersburg city

THE APPLIED DEVELOPMENTS DIRECTION  
"COGNITIVE MODELING IN THE HUMANITARIAN SCIENCES,  
ART AND CREATIVITY" ("NGNOT")

OF "THE SRI "SFA CMT" OF "THE RA(N)S" NAMED AFTER V.N. VENIAMINOV" (PART I)  
The developed "The applied developments direction  
"Cognitive modeling in the humanitarian sciences, art and creativity"" ("NGNOT")  
treats to the applied developments divisions  
of "The scientific-research institute "System and financial analysis  
based on cognitive modeling technology" of "The RA(N)S" named after V.N. Veniaminov"  
("The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov" – The SRI) as the first SRI  
in structure of "The SIO "Academy of cognitive natural sciences"" ("The SIO "ACNS""),  
an additional component of science and education system of the modern country  
for creation, distribution and use of the main and derivative  
scientific results of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru)  
[see the applied developments directions and scientific-researches laboratories of The SRI]:  
1) it is executed by the principle of "administrative-economy submission";  
2) works in several main directions, which allow to provide  
development of the applied main and derivative scientific results  
(my second report on SRW from 2006-2008(9) y. was submitted  
to "The SPbSETU "LETI"" and The Government of The RF  
for the translation, carrying out of int. action and receiving of "The Nobel Prize");  
3) includes several various main divisions:  
1) "The scientific-researches laboratory  
"The research of applications of the (cognitive) linguistics,  
(national) creativity, culture, the art and religion"" ("SGNT") (\*)  
*"the applied developments in are a  
Applications of study of language"* –  
usage of theory of general study of language,  
usage of theory of applied study of language, usage of theory of The World languages,  
usage of theory of cognitive modeling technology  
in applications of study of language;  
*"the applied developments in are a  
Applications of (cognitive) linguistics"* (\*) –  
usage of theory of general questions of languages,  
usage of theory of (cognitive) linguistics,  
usage of theory of applied linguistics,  
usage of theory of cognitive modeling technology  
in applications of (cognitive) linguistics,  
usage of theory of modified stratified-step model  
of understanding (cognitive linguistics) of information fragments content,  
usage of theoretical bases of (cognitive) linguistics  
and cognitive modeling technology  
in technical, economical, physical-mathematical and other sciences,  
usage of theoretical bases of parametrical cognitive models block  
for the system analysis of information-educational environments  
(cognitive models of subject of training and means of training),  
usage of theory of ways of representation of structure  
of cognitive models and difficult problem environments:  
formal classical of the 0<sup>th</sup> generation (logical and production models),  
nonformal classical of the 0<sup>th</sup> generation (semantic network, frame network and ontology),  
formal new of the 0<sup>th</sup> generation (calculus of theory of sets and corteges on domains  
and innovative calculus of theory of sets and graphs),  
nonformal new of the 0<sup>th</sup> generation (multilevel structural scheme  
and multilevel encapsulated pyramids combining theory of graphs and theory of sets),  
flat of the 1<sup>st</sup> generation (cognitive circle and cognitive disc),  
volumetric of the 1<sup>st</sup> generation (cognitive cylinder, cognitive cone and cognitive sphere),  
flat and volumetric of the 2<sup>nd</sup> generation (one-, two-, three-, four-, five- and more cognitive circle,  
cognitive disc, cognitive cylinder, cognitive cone and cognitive sphere),  
hybrid of the 3<sup>rd</sup> generation (combinations of the existing cognitive models),  
usage of theory of adaptive automation means  
of information-educational environment  
(basic and applied diagnostic module, electronic textbook,  
laboratory practical work, electronic dean, electronic library and others),  
usage of theory of technical means of support  
of adaptive information interaction  
(adaptive representation of sequence of information fragments processor,  
question-answers structures sequence processing processor,  
linguistical processor and others);

*the applied developments in area “Applications of culture and cultural science”* – usage of theory, methodology and philosophy of culture, usage of theory of history of culture, usage of theory of history of study of culture), usage of theory of culture in the modern World, usage of theory of organization and management in field of culture, usage of theory of international cooperation in field of culture, usage of theory of hardware of culture establishments, usage of theory of social-cultural activity in sphere of leisure, usage of theory of library affair, usage of theory of library science, usage of theory of bibliography, usage of theory of library-graphy science, usage of theory of museum affair, usage of theory of museology, usage of theory of protection of monuments of history and culture, usage of theory of archival affair, usage of theory of archival science, usage of theory of culture and cultural science of separate countries and peoples, usage of theory of cognitive modeling technology in applications of culture and cultural science;

*the applied developments in area “Applications of art and study of art”* – usage of theory and methodology of art, usage of theory of problems of study of art, usage of theory of history and modern condition of art, usage of theory of study of art and art critic, usage of theory of art in the modern World, usage of theory of organization and management in field of art, usage of theory of international cooperation in field of art, usage of theory of fine art, usage of theory of music, usage of theory of musicology, usage of theory of theatre, usage of theory of theater science, usage of theory of mass shows and theatrical holidays, usage of theory of dance, usage of theory of choreography, usage of theory of circus, usage of theory of platform, usage of theory of cinema, usage of theory of motion picture art, usage of theory of national folk art, usage of theory of art of separate countries and peoples, usage of theory of cognitive modeling technology in applications of art and study of art;

*the applied developments in area “Applications of religion and atheism”* – usage of theory of atheism and free-thinking, usage of theory of separate religions, usage of theory of church, usage of theory of cults, usage of theory of problems of religious consciousness, usage of theory of philosophy and religion, usage of theory of religion, usage of theory of church and society, usage of theory of organizational-practical activity of churches, usage of theory of history of atheism, usage of theory of religions and churches, usage of theory of cognitive modeling technology in applications of religion and atheism].

II. “The scientific-researches laboratory  
"The research of applications of the literature, science of science, philosophy,  
journalism and mass communication means"” (“SLPZ”)  
[the applied developments in area  
“Applications of literature, study of literature and oral national creativity” –  
usage of theory of literature, usage of theory of history of literature,  
usage of theory of national creativity,  
usage of theory of auxiliary study of literature disciplines,  
usage of theory of fiction literature products,  
usage of theory of cognitive modeling technology  
in applications of literature, study of literature and oral national creativity;  
the applied developments in area  
“Applications of science of science” –  
usage of theory of general questions of science of science,  
usage of theory of science development, usage of theory of science and society,  
usage of theory of sociology of science, usage of theory of scientific work,  
usage of theory of scientific creativity, usage of theory of science organization,  
usage of theory of politics in field of science,  
usage of theory of technique and technics of research work,  
usage of theory of economics of science, usage of theory of scientific staff,  
usage of theory of international cooperation in science,  
usage of theory of science and scientific-research work in separate countries,  
usage of theory of cognitive modeling technology  
in applications of science of science;  
the applied developments in area  
“Applications of mass communication,  
journalism and mass media means” –  
usage of theory of mass communication means,  
usage of theory of open network information resources (Internet and WWW),  
usage of theory of journalism, usage of theory of mass media means,  
usage of theory of printing, usage of theory of TV, usage of theory of radio,  
usage of theory of use of technical means for mass communication,  
usage of theory of cognitive modeling technology  
in applications of mass communication,  
journalism and mass media means].

The applied developments directions and scientific-researches laboratories of The SRI allow to develop the main and derivative scientific results of CMT.