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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 2)
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:
III. “The scientific-researches laboratory
“The research of applications of the problems of (cognitive) psychology,
education, science and supports of young scientists
(the grants programs and others)”” (“SPOPMU”) (*)
the applied developments in area
“Applications of national education and pedagogics” –
usage of theory of general pedagogics,
usage of theory of history of education and pedagogics,
usage of theory of personnels, usage of theory of education systems,
usage of theory of preschool education,
usage of theory of preschool pedagogics,
usage of theory of comprehensive school,
usage of theory of pedagogics of comprehensive school,
usage of theory of out-of-school (additional) education and training,
usage of theory of out-of-school pedagogics,
usage of theory of special (correctional) schools,
usage of theory of defectology,
usage of theory of initial vocational-technical education,
usage of theory of pedagogics of professional school,
usage of theory of average vocational education,
usage of theory of average vocational education pedagogics,
usage of theory of supreme vocational education,
usage of theory of supreme professional school pedagogics,
usage of theory of education of adults, usage of theory of improvement of professional skill,
usage of theory of self-education,
usage of theory of family training, theory of family pedagogics,
usage of theory of specialized branches of pedagogics,
usage of theory of technical means of training and training equipment,
usage of theory of national education and pedagogics in separate countries,
usage of theory of cognitive modeling technology
in applications of national education and pedagogics;

t h e a p p l i e d d e v e l o p m e n t s i n a r e a
“Applications of (cognitive) psychology” (*) –
 usage of theory of general psychology, usage of theory of development psychology,
 usage of theory of age psychology, usage of theory of comparative psychology,
 usage of theory of social psychology, usage of theory of applied psychology,
 usage of theory of cognitive modeling technology
 in applications of (cognitive) psychology,
 usage of theory of modified stratified-step model
 of processing (cognitive psychology) of information fragments content,
 usage of theoretical bases of cognitive psychology
 and cognitive modeling technology,
 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 0th generation (logical and production models),
 nonformal classical of the 0th generation (semantic network, frame network and ontology),
 formal new of the 0th generation (calculus of theory of sets and corteges on domains
 and innovative calculus of theory of sets and graphs),
 nonformal new of the 0th generation (multilevel structural scheme
 and multilevel encapsulated pyramids combining theory of graphs and theory of sets),
 flat of the 1st generation (cognitive circle and cognitive disc),
 volumetric of the 1st generation (cognitive cylinder, cognitive cone and cognitive sphere),
 flat and volumetric of the 2nd generation (one-, two-, three-, four-, five- and more cognitive circle,
 cognitive disc, cognitive cylinder, cognitive cone and cognitive sphere),
 hybrid of the 3rd 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 other processors),
 usage of theory of technical means of the complex analysis support
 (automation means of formation and research
 of psychological parameters of cognitive model as cognitive circle,
 cognitive disc, cognitive cylinder, cognitive cone, cognitive sphere,
 one-, two-, three-, four-, five- and more cognitive sphere and others);
t h e a p p l i e d d e v e l o p m e n t s i n a r e a
“Applications of grants of "The RFBR", "The RHSF" and other organizations” –
 usage of theory of general data of grants
 of “The Russian fund of basic researches”,
 “The Russian humanitarian scientific fund” and other organizations,
 usage of theoretical-methodological basis of grants,
 usage of theory of reception, distribution and use of grants
 of “The RFBR”, “The RHSF” and other grant-formation organizations,
 usage of theory of cognitive modeling technology
 in applications of grants of “The RFBR”, “The RHSF” and other organizations].

IV. "The scientific-researches laboratory 'The research of applications of the innovations of project 'The Russian encyclopedias', philosophy of science, technics and technology on branches of knowledge'" ("SRE")
"the applied developments in area 'Applications of encyclopedias on natural and exact sciences' –
 usage of theory of encyclopedias on mathematics, cybernetics, physics, mechanics, chemistry, biology, geodesy and cartography, geo-physics, geology, geography, astronomy, usage of theory of general and complex problems of natural and exact sciences, usage of theory of cognitive modeling technology in applications of encyclopedias on natural and exact sciences;
"the applied developments in area 'Applications of encyclopedias on social sciences' –
 usage of theory of encyclopedias on social sciences as a whole, usage of theory of encyclopedias on philosophy, history and historical sciences, sociology, demography, economics and economical sciences, state, law and jurisprudence sciences, politics and political sciences, science of science, culture and cultural science, national education and pedagogics, psychology, science of language, literature and study of literature, oral national creativity, art and art science, mass communication and journalism, mass media means, Computer science, religion and atheism, complex studying of separate countries and regions, complex problems of social sciences, usage of theory of cognitive modeling technology in encyclopedias on social sciences;
"the applied developments in area 'Applications of encyclopedias on technical, applied and economical sciences' –
 usage of theory of encyclopedias on power engineering, electrical engineering, electronics, radio engineering, connection, automatics, computer engineering, mining, metallurgy, mechanical engineering, nuclear technics, instrument making, polygraphy, reprography, photo-cinema-technics, chemical technology and chemical industry, bio-technology, light industry, food-processing industry, forest and wood-processing industry, construction and architecture, agriculture and forestry economy, fish economy and aqua-culture, water economy, internal trade, tourist-excursion service, external trade, transport, housing-communal economy, housekeeping, consumer services, medicine and public health services, physical training and sport, military science, other branches of economics, usage of theory of cognitive modeling technology in applications of encyclopedias on technical, applied and economical sciences;
"the applied developments in area 'Applications of encyclopedias on general and complex problems of technical and applied sciences and branches of national economy' –
 usage of theory of encyclopedias on organization and management, statistics, standardization, patent business, invention and rationalization, labor safety, environment preservation and ecology of person, space researches, metrology, usage of theory of cognitive modeling technology in applications of encyclopedias on general and complex problems of technical and applied sciences and branches of national economy;
"the applied developments in area 'Applications of philosophy of science, technics and technology' –
 usage of theory of general problems of modern philosophy of science, technics and technology, usage of theory of global philosophy problems, usage of theory of logic of philosophy and methodology of science, usage of theory of social philosophy, usage of theory of ethics, usage of theory of aesthetics, usage of theory of philosophy of religion and atheism, usage of theory of history of philosophy, usage of theory of cognitive modeling technology in applications of philosophy of science, technics and technology.
 The applied developments directions and scientific-researches laboratories of The SRI allow to develop the main and derivative scientific results of CMT.