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THE APPLIED SCIENTIFIC RESEARCHES DIRECTION  
“APPLICATIONS OF SOCIAL-SCIENCE AND TECHNOLOGIES OF SOCIAL SCIENCES  
IN MEDICINE” (“TSOC-S AND TSOCS IN M”)

OF “SEC "SFA CMT" OF "RA(M)S" N. A. ACAD. BURDENKO N.N.” (PART 1)

The developed “The applied scientific researches direction  
"Applications of social-science and technologies of social sciences  
in medicine”” (“TSOC-S and TSOCS in M”)  
treats to the applied scientific researches divisions  
of “The scientific-educational centre "System and financial analysis based on  
cognitive modeling technology" of "RA(M)S" named after acad. Burdenko N.N.”  
 (“SEC "SFA CMT" of "RA(M)S" n. a. acad. Burdenko N.N.” – SEC) as the first SEC  
in the structure of “SIO "Academy of cognitive natural sciences”” (“SIO "ACNS””)  
as the add. component of the system of science and education of the modern country  
for the creation, distribution and use of the main and derivative  
scientific results of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru)  
[see the applied scientific researches directions and departments of SEC]:  
1) it is executed by the principle of “administrative-economy submission”;  
2) works in the several main directions, which allow to provide  
the development of the applied main and derivative scientific results  
(my second report on SRW from 2006-2008(9) y. was submitted  
to “SPbSETU "LETI”” and “The Government of RF”  
for the translation, carrying out of int. action and receiving of “The Nobel prize”);  
3) includes the several various main divisions:  
I. “The applied scientific researches department  
"Applications of social sciences, philosophy, science-study, politics and political sciences,  
sociology, (cognitive) psychology, state, law and jurisprudential sciences,  
patent business, invention and rationalization in medicine””  
 (“APSOCSPHS-STP and PSS(C)PSL and JSPBI and R in M”) (\*)  
[ *the applied scientific researches in area*  
“*Applications of social sciences in medicine*” –  
usage of the theoretical bases of social sciences in medicine,  
usage of theory of social sciences and ideology in medicine,  
usage of theory of the history of social sciences in medicine,  
usage of theory of the modern condition of social sciences in medicine,  
usage of theory of scientific societies, conventions, congresses, conferences  
and symposiums on the social sciences in medicine,  
usage of theory of international cooperation in the area of social sciences in medicine,  
usage of theory of the organization of scientific-research work  
in the area of social sciences in medicine,  
usage of theory of information activity in social sciences in medicine,  
usage of theory of the terminology of social sciences in medicine,  
usage of theory of the promotion and popularization of social sciences in medicine,  
usage of theory of the teaching of social sciences in medicine,  
usage of theory of mathematical modeling  
in the social and humanitarian sciences in medicine,  
usage of theory of the personnel of social-scientists in medicine  
and usage of the cognitive modeling technology  
in the applications of social sciences in medicine;

*the applied scientific researches in area “Applications of philosophy in medicine”* – usage of the theoretical bases of philosophy in medicine, usage of theory of the general problems of modern philosophy in medicine, usage of theory of general-philosophical problems in medicine, usage of theory of logic in medicine, usage of theory of philosophy and methodology of science in medicine, usage of theory of social philosophy in medicine, usage of theory of ethics in medicine, usage of theory of aesthetics in medicine, usage of theory of philosophy of religion and atheism in medicine, usage of theory of history of philosophy in medicine and usage of the cognitive modeling technology in the applications of philosophy in medicine;

*the applied scientific researches in area “Applications of science-study in medicine”* – usage of the theoretical bases of science-study in medicine, usage of theory of the development of medicine as the science, usage of theory of science and society in medicine, usage of theory of the sociology of science in medicine, usage of theory of scientific work and scientific creativity in medicine, usage of theory of the organization of science in medicine, usage of theory of politics in the area of medicine as the science, usage of theory of the technique and technics of research work in medicine, usage of theory of the economics of medicine as the science, usage of theory of scientific personnel in medicine, usage of theory of international cooperation in medicine as the science, usage of theory of medicine as the science and the scientific-research work in the separate countries and usage of the cognitive modeling technology in the applications of science-study in medicine;

*the applied scientific researches in area “Applications of politics and political sciences in medicine”* – usage of the theoretical bases of politics and political sciences in medicine, usage of theory of the methodology of political researches in medicine, usage of theory of the history of political doctrines in medicine, usage of theory of political systems in medicine, usage of theory of internal policy in medicine, usage of theory of international relations in medicine, usage of theory of foreign (external) policy and diplomacy in medicine and usage of the cognitive modeling technology in the applications of politics and political sciences in medicine;

*the applied scientific researches in area “Applications of sociology in medicine”* – usage of the theoretical bases of sociology in medicine, usage of theory of the general problems of modern sociology in medicine, usage of theory of the methodology of sociology in medicine, usage of theory of the technique and technics of sociological researches in medicine, usage of theory of society as the system in medicine, usage of theory of social relations and processes in medicine, usage of theory of social classes, communities and groups in medicine, usage of theory of sociology of the spheres of social life in medicine, usage of theory of social phenomena and institutions in medicine, usage of theory of the sociology of personality and behavior in medicine, usage of theory of the historical and regional sociology in medicine, usage of theory of the applied sociology in medicine, usage of theory of the history of sociology in medicine and usage of the cognitive modeling technology in the applications of sociology in medicine;

*the applied scientific researches in area “Applications of (cognitive) psychology in medicine” (\*)* – usage of the theoretical bases of (cognitive) psychology in medicine, usage of theory of general psychology in medicine, usage of theory of the psychology of development in medicine, usage of theory of age psychology in medicine, usage of theory of comparative psychology in medicine, usage of theory of social psychology in medicine, usage of theory of applied psychology in medicine, usage of theory of the layered-step model of processing (cognitive psychology) of the content of information fragments in medicine, usage of the theoretical bases of cognitive psychology and the cognitive modeling technology in medicine, usage of the theoretical bases of formation of the parametrical cognitive models block in the theoretical (cognitive) psychology in medicine, usage of theory of the structure of the cognitive model of the 0<sup>th</sup>, 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> generation in the theoretical (cognitive) psychology in medicine, usage of theory of the ways of representation of the structure of the cognitive models and problem environments in the theoretical (cognitive) psychology in medicine: the formal classical of the 0<sup>th</sup> generation (the logical and production models), the non-formal classical of the 0<sup>th</sup> generation (the semantic network, the frame network and ontology), the formal new of the 0<sup>th</sup> generation (the calculus of theory of sets and corteges on domains and the innovative calculus of theory of sets and graphs), the non-formal new of the 0<sup>th</sup> generation (the multi-level structural scheme and the multi-level encapsulated pyramids combining theory of graphs and theory of sets), the flat of the 1<sup>st</sup> generation (the cognitive circle and the cognitive disc), the volumetric of the 1<sup>st</sup> generation (the cognitive cylinder, the cognitive cone and the cognitive sphere), the flat and volumetric of the 2<sup>nd</sup> generation (the one-, two-, three-, four-, five- and more cognitive circle, cognitive disc, cognitive cylinder, cognitive cone and cognitive sphere), the hybrid of the 3<sup>rd</sup> generation (the combinations of the existing cognitive models), usage of theory of the algorithms of formation of the structure of the cognitive models of the 0<sup>th</sup>, 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> generations in the theoretical (cognitive) psychology in medicine, usage of theory of the techniques of research of the parameters of the cognitive models of the 0<sup>th</sup>, 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> generation in the theoretical (cognitive) psychology in medicine, usage of theory of the algorithms of the analysis of a posteriori results of research in the theoretical (cognitive) psychology in medicine, usage of theory of the adaptive automation means of the information-educational environment in the theoretical (cognitive) psychology in medicine (the basic and applied diagnostic module, the electronic textbook, the laboratory practical work, the electronic dean's office, the electronic library and others), usage of theory of the technical means of support of the adaptive information interaction in the theoretical (cognitive) psychology in medicine (the adaptive representation of sequence of information fragments processor, the question-answers structures sequence processing processor, the linguistic processor and others), usage of theory of technical means of support of the system analysis in the theoretical (cognitive) psychology in medicine (the automation means of formation and research of the psychological parameters of the cognitive model in the view of the cognitive circle, the automation means of formation and research of the psychological parameters of the cognitive model in the view of the cognitive disc, the automation means of formation and research of the psychological parameters of the cognitive model in the view of the cognitive cylinder, the automation means of formation and research of the psychological parameters of the cognitive model in the view of the cognitive cone, the automation means of formation and research of the psychological parameters of the cognitive model in the view of the cognitive sphere, the automation means of formation and research of the psychological parameters of the cognitive model in the view of the one-, two-, three-, four-, five- and more cognitive sphere and others) and usage of the cognitive modeling technology in the applications of (cognitive) psychology in medicine;

*the applied scientific researches in area “Applications of state management, law and jurisprudential sciences in medicine”* – usage of the theoretical bases of state management, law and jurisprudential sciences in medicine, usage of theory of country and law in medicine, usage of theory of the history of country and law in medicine, usage of theory of the history of political and legal doctrines in medicine, usage of theory of constitutional (state) law in medicine, usage of theory of municipal law in medicine, usage of theory of administrative law in medicine, usage of theory of information law in medicine, usage of theory of financial law in medicine, usage of theory of entrepreneurial law in medicine, usage of theory of civil law in medicine, usage of theory of civil-processual law (civil process) in medicine, usage of usage of theory of arbitration-processual law (arbitration process) in medicine, usage of theory of patent law in medicine, usage of theory of the law of industrial property in medicine, usage of theory of copyright and adjacent rights in medicine, usage of theory of succession law in medicine, usage of theory of family law in medicine, usage of theory of agrarian law in medicine, usage of theory of legal problems of the protection of environment in medicine, usage of theory of ecological law in medicine, usage of theory of land law in medicine, usage of theory of forest law in medicine, usage of theory of water law in medicine, usage of theory of air-protection law in medicine, usage of theory of the legislation about the subsoils in medicine, usage of theory of the legislation about the fauna world in medicine, usage of theory of labor law in medicine, usage of theory of the law of social support in medicine, usage of theory of law-enforcement bodies in medicine, usage of theory of criminal law in medicine, usage of theory of criminal-processual law (criminal process) in medicine, usage of theory of criminology in medicine, usage of theory of criminal-enforcement law in medicine, usage of theory of penitentiary in medicine, usage of theory of criminalistics in medicine, usage of theory of judicial statistics in medicine, usage of theory of international law in medicine, usage of theory of international private law in medicine, usage of theory of country and the law of separate countries in medicine and usage of the cognitive modeling technology in the applications of state management, law and jurisprudential sciences in medicine; *the applied scientific researches in area “Applications of patent business, invention and rationalization in medicine”* – usage of the theoretical bases of patent business, invention and rationalization in medicine, usage of theory of patent-information activity in medicine, usage of theory of invention and rationalization in medicine, usage of theory of patent-license work in medicine, usage of theory of the technical-economic analysis on the patent materials in medicine, usage of theory of inventive law in medicine usage of the cognitive modeling technology in the applications of patent business, invention and rationalization in medicine].

The applied scientific researches directions and departments of SEC allow to develop the main and derivative scientific results of CMT.