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THE FUNDAMENTAL DEVELOPMENTS BRANCH
“COGNITIVE MODELING IN THE PHYSIOLOGY,
FUNDAMENTAL MEDICINE AND PUBLIC-HEALTH-SERVICES” (“OFFM”)
OF “SRI "SFA CMT" OF "RA(N)S" N. A. VENIAMINOV V.N.”

The developed “The fundamental developments branch
“Cognitive modeling in the physiology,
fundamental medicine and public-health-services”” (“OFFM”)
treats to the fundamental developments divisions
of “The scientific-research institute “System and financial analysis based on
cognitive modeling technology” of “RA(N)S” named after Veniaminov V.N.”
 (“SRI “SFA CMT” of “RA(N)S” n. a. Veniaminov V.N.” – SRI) as the first SRI
in the structure of “SIO “Academy of cognitive natural sciences”” (“SIO “ACNS””)
and 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 fundamental developments branches and departments of SRI]:
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 fundamental 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 fundamental developments department
“Theory of physiology, bio-physiology and private physiology”” (“SF”) (*)
*[the fundamental developments in the area
“Theoretical physiology” (*)* –
theory of general physiology, theory of the methods and equipment of physiological researches,
theory of physiology, theory of molecular physiology,
theory of physiological cytology, theory of physiological embryology,
theory of physiological genetics, theory of physiology of viruses,
theory of micro-physiology, theory of physiology of organic individuals,
theory of physiology of plants, theory of zoological physiology,
theory of ecological physiology, theory of anthropology of physiology,
theory of physiology of human and animals, theory of physiological immunology,
theory of physiological pharmacology and toxicology, theory of radiation physiology,
theory of space physiology, theory of physiological cybernetics,
theory of the cognitive modeling technology
in the theoretical physiology;

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“The Nobel committee” (The Kingdom of Norway and The Kingdom of Sweden)
(it was submitted to “SIO “ACNS”” on the int. conf. “APMS and T: CA” on the 01st-31st of March 2016 y.)

the fundamental developments in the area “Theoretical bio-physiology and public-health-services” () – theory of bio-medical-physiological disciplines, theory of private physiology of analyzers and sensory systems, theory of bio-physiological materials, means and products, theory of bio-physiological technics, theory of clinical physiology, theory of physiological bio-pharmacology and bio-epidemiology, theory of the other branches of bio-medicine and public-health-services, theory of social physiology, theory of the organization and management of public-health-services, theory of the modified model of reduced eye, theory of the modified model of reduced ear, theory of the software for the automation of research tasks of the physiological, psychological and linguistic parameters of the parametrical cognitive models block in medicine, theory of the statistical substantiation of practical use of the received results, theory of the physiological, psychological and linguistic factors influencing to the efficiency of functioning of the information-educational environment and the increase of resultativity of the automated training system with the properties of adaptation based on the cognitive models, theory of organization and plan of carrying out of the experiment, theory of research of the physiological, psychological and linguistic parameters of the cognitive models of the subject of training and the means of training, theory of preliminary processing of a posteriori results of diagnostics, theory of choice of the statistical analysis methods of the generated data sets, theory of the analysis of dynamics of the resultativity of researches in the area of bio-physiology and public-health-services, theory of the dispersion, regression, discriminant, cluster analysis, multidimensional scaling, factor analysis and bibliographic lists, theory of the complex analysis of the modified model of reduced eye for the research of acuity of vision, field of vision, color perception and others parameters in the Descartes space of the 2 and 3 coordinates, theory of the complex analysis of the modified model of reduced ear for the research of absolute sensitivity and thresholds of sensitivity in the Descartes space of the 2 and 3 coordinates].*

II. “The fundamental developments department “Theory of medicine, public-health-services, labor safety, environment preservation and ecology of person”” (“SFM”) (*)
[*the fundamental developments in the area “Theoretical medicine and public-health-services”* – theory of medical-biological disciplines, theory of medical materials, means and products, theory of medical technics, theory of clinical medicine, theory of pharmacology, theory of hygiene and epidemiology, theories of the other branches of medicine and public-health-services, theory of social hygiene, theory of the organization and management of public-health-services, theory of the cognitive modeling technology in the theoretical medicine and public-health-services; *the fundamental developments in the area “Theoretical labor safety”* (*) – theory of the organization and management of labor safety, working conditions, industrial sphere and safety precaution, theory of professional illnesses and their preventive measures, theory of accidents on manufacture and their prevention, theory of work-capacity and the examination of work-capacity, theory of labor safety by the categories of workers, theory of labor safety on the manufactures of increased danger, theory of the cognitive modeling technology in the theoretical labor safety, theory of the cognitive model of the subject of training; *the fundamental developments in the area “Theoretical preservation of environment and ecology of person”* – theory and methods of studying of the preservation of environment and person, theory of the ecological bases of use of the natural resources, theory of international cooperation, theory of contamination of environment, theory of pollution, theory of the pollution and protection of atmosphere, theory of the pollution and protection of the waters of land, seas and oceans, theory of the protection of soils, theory of the protection of bowels, theory of the ecological bases of ability-to-live of the person, theory of influence of the anthropogenic changes of environment on the health and social-labor potential of person, on the condition of natural ecosystems, the populations and organisms of vegetative and generative (fauna) world, theory of the protection of vegetative and generative (fauna) world, theory of the anthropogenic influence on landscape, theory of the protection and optimization of landscape, theory of reserved affair, theory of the protected natural territories and water-areas, theory of the acts of nature and the accidents of anthropogenic origin, theory of the ecological safety of person, theory of the rational use and reproduction of natural resources by the person, theory of the preservation of environment and natural resources in the separate regions and countries, theory of waste management, theory of small-waste and without waste technology, theory of the protection of person from the noise, vibration, electrical and magnetic fields and radiations, theory of the cognitive modeling technology in the theoretical preservation of environment and ecology of person].

The fundamental developments branches and departments of SRI allow to develop the main and derivative scientific results of CMT.