""the author of the unique technology" of cognitive modeling" Vetrov Anatoly Nikolaevich

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THE FUNDAMENTAL RESEARCHES FINANCING BRANCH
"COGNITIVE MODELING IN THE EXACT SCIENCES" ("OEMMPU")

OF "SF "SFA CMT" N. A. PROKOPENKO N.A."

The developed "The fundamental researches financing branch
"Cognitive modeling in the exact sciences"" ("OEMMPU")
treats to the fundamental researches financing divisions
of "The scientific fund "System and financial analysis based on
cognitive modeling technology" named after Prokopenko N.A."
("SF "SFA CMT" n. a. Prokopenko N.A." — SF) as the first SF
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 financing of creation, distribution and use
of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru)
[see the fundamental main and derivative scientific results
of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru)
[see the fundamental researches financing branches and departments of SF]:
1) it is executed by the principle of "administrative-economy submission";
2) works in the several main directions, which allow to provide
the financing of development, production and promotion
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) in cludes the several various main divisions:

"The fundamental researches financing department"

Theory of (theoretical) mechanics, and gyroscopes" ("SM") ("ST")

"The fundamental researches financing department of the fundamental researches and developments in the area
"The long of pundamental researches and developments in the area
"The or et ic all mechanics, theory of mechanics of liquid and gas,
theory of the complex and special sections of theoretical mechanics,
theoret theoretical bases of formation of the parametrical cognitive models block for the complex system analysis of the objects, processes and phenomena of theoretical mechanics, theory of the ways of representation of the structure of the cognitive models and problem environments: the formal classical of the 0th generation (the logical and production models), the nonformal classical of the 0th generation (the semantic network, the frame network and ontology), the formal new of the 0th generation (the calculus of theory of sets and corteges on domains and the innovative calculus of theory of sets and graphs), the nonformal new of the 0th generation (the multi-level structural scheme and the multi-level encapsulated pyramids combining theory of graphs and theory of sets), the flat of the 1st generation (the cognitive circle and the cognitive disc), the volumetric of the 2st generation (the cognitive circle and the cognitive sphere), the flat and volument of the 2st generation (the cognitive cone and the cognitive sphere), the hybrid of the 3st generation (the combinations of the existing cognitive models), the ory of the adaptive automation of the existing cognitive models), the ory of the technical means of support of the complex system analysis of the difficult objects, processes and phenomena of theoretical mechanics, theory of the technical means of support of the cognitive circle, cognitive disc, cognitive cylinder, cognitive cone, cognitive sphere, one-, two-, three-, fore-, five- and more cognitive cone, cognitive sphere and others), theory of the statistical substantiation of practical use of the received results, theory of the factors influencing to the efficiency of functioning of the objects, processes and phenomena of theoretical mechanics, theory of the statistical substantiation of practical use of the experiment, theory of the experiment processing of a posteriori results of diagnostics, theory of choice of the statistical analysis methods of the generated data sets, theory of choice of the statistical a the financing of fundamental researches and developments in the area "Theoretical mechatronics" theoretical bases, general tasks and methods of theoretical mechatronics, theory of general theoretical mechatronics, theory of mechatronics of liquid and gas, deformable firm body, theory of the complex and special sections of theoretical mechatronics, theory of the automation means and devices of mechatronics, theory of the cognitive modeling technology in the theoretical mechatronics (theory of hygroscope-building)]. II. "The fundamental researches financing department "Theory of mechanical-engineering, instrument-making and metrology"" ("SPMPU") [the financing of fundamental researches and developments in the area "Theoretical mechanical-engineering" – theory of machines-engineering-science and details of machines, theory of machine-building materials, theory of technology of mechanical-engineering, theory of foundry manufacture, theory of forge-stamp manufactures, theory of assembly manufacture, theory of cutting of materials, theory of electrical-physical-chemistry processing, theory of thermal and strengthening processing, theory of furnish of surfaces and drawings of coverings, theory of manufacture of products from powder materials, theory of manufacture of nonmetallic products, theory of machine-tool construction, theory of robotics, theory of tool manufacture, theory of mining mechanical-engineering, theory of metallurgical mechanical-engineering, theory of reactor-constriction, theory of turbine-construction, theory of special power-engineering installations, theory of chemical and oil mechanical-engineering, theory of locomotive-construction and carriage-building, theory of engine-construction, theory of motor-car-building, theory of ship-building, theory of aircraft-building, theory of space technics and rocket-building, theory of hoisting-transport mechanical-engineering, theory of building and road mechanical-engineering, theory of communal mechanical-engineering, theory of tractor and agricultural mechanical-engineering, theory of mechanical-engineering for the light industry, theory of polygraphic mechanical-engineering, theory of mechanical-engineering for the food-processing industry, theory of mechanical-engineering for the trade and public catering, theory of household machines and devices, theory of manufacture of weapon, theoretical bases of the other branches of mechanical-engineering, theory of the cognitive modeling technology the theoretical mechanical-engineering;

the financing of fundamental researches and developments in the area "Theoretical bases of instrument-making" theory of general technology of production and equipment in instrument-making, theory of designing and constructing of devices, theory of the devices for the measurement of electrical and magnetic sizes, theory of the devices for the measurement of mechanical sizes, theory of the devices for the measurement of time and frequency, theory of the devices for the measurement of composition (structure) and physical-chemical properties of the substances and materials, theory of the devices for the heating-technical and heating-physical measurements, theory of the devices for the measurement of acoustical sizes and characteristics, theory of the devices for the measurement of optical and lighting-technical sizes and characteristics, theory of the devices for the measurement of ionization radiations, theory of the devices of the non-destroying control of products and materials, theoretical bases of the general structural elements, the units of measuring devices and systems, the devices of interface and the means of office equipment (periphery), theory of the cognitive modeling technology the theoretical instrument-making; the financing of fundamental researches and developments in the area "Theorem to retical and a transfer and the area" heoretical metrolog theory of the scientific bases and technical means of theoretical metrology and metrological support, theory of the state, national and international systems and services of metrology, theory of the measurement of separate sizes and characteristics, theory of the standard samples of composition (structure) and properties of the substances and materials, theory of the cognitive modeling technology in the theoretical metrology (theory of measurement)]. III. "The fundamental researches financing department "Theory of power-engineering and electrical-engineering"" ("SE") the financing of fundamental researches and developments in the area Theoretical power-engineering theory of power-resources, theory of power-engineering (energetic) balance, theory of electrical-power-engineering (energetics) (industry), theory of heating-power-engineering (industry), theory of heating-technics, theory of atomic power-engineering (industry), theory of water-power-engineering (industry), of helium-power-engineering (industry), theory theory of wind-power-engineering (industry), theory of the direct transformation of energy, theory of the cognitive modeling technology in the theoretical power-engineering; the financing of fundamental researches and developments in the area "Theoretical electrical engineering theory of electrical technical materials. theory of electrical-engineering, theory of electrical-technical materials, theory of electrical machines, theory of electrical devices, theory of transformers and electrical reactors, theory of power theory of power electrical condensers, theory theory of electrical drive, theory of electrical-thermy, theory of electrical-welding equipment, theory of wire and cable, theory of electrical isolators, theory of light-engineering, theory of the electrical-technical equipment of special purpose, theory of the cognitive modeling technology the theoretical electrical-engineering The fundamental researches financing branches and departments of SF allow to finance the development, production and promotion of the fundamental main and derivative scientific results of CMT.