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

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The FUNDAMENTAL DEVELOPMENTS BRANCH

"COGNITIVE MODELING IN THE EXACT SCIENCES" ("OEMMPU")

OF "SRI "SFA CMT" OF "RA(N)S" N. A. VERIAMINOV V.N."

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the fundamental developments in the "Theoretical mechatronics theoretical bases, general tasks and methods of theoretical mechatronics, theory of general theoretical mechatronics, theory of mechatronics of liquid, gas and 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 developments department "Theory of mechanical-engineering, instrument-making and metrology"" ("SPMPU") [the fundamental developments in the area "Theoretical mechanical-engineering" theory of mechanical-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 manufacture, 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-construction, 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 fundamental 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 in the theoretical instrument-making; e fundamental developments in the area Theoretical metrology" 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 developments department "Theory of power-engineering and electrical-engineering" ("SE") <u>[the fundamental developments in the area</u> Théoretical 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, of atomic power-engineering (industry), theory of hydro-power-engineering (industry), theory of helium-power-engineering (industry), 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 fundamental developments in the area "Theoretical power-engineering; "Theoretical electrical-engineering" 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 electrical condensers, 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 in the theoretical electrical-engineering]. The fundamental developments branches and departments of SRI allow to develop the main and derivative scientific results of CMT.