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THE FUNDAMENTAL AND APPLIED AREAS OF ACTIVITY
OF “SIO "ACNS"”, “SRI "SFA CMT" OF "RA(N)S" N. A. VENIAMINOV V.N.”,
“SF "SFA CMT" N. A. PROKOPENKO N.A.”
AND ““SPBEC N. A. BREZHNEV L.I." AT "EAST N. A. SOBCHAK A.A.””

The system of designations is entered: B – branch, D – direction, (E) – exhibition, (F) – financing, F – fund., A – appl., (S) – scientific, R – researches, (D) – development, S – section, (DP) – department and (SRL) – scientific-res. laboratory.

1. The set of fundamental subject domains of activity is defined.
 - 1.1. F(S)R(D)(E)(F)B “Cognitive modeling in the mathematical sciences”.
 - 1.1.1. F(S)R(D)(E)(F)S(DP) “The theory of mathematics and the complex system analysis based on the cognitive modeling technology (CMT)” (*).
 - 1.1.2. F(S)R(D)(E)(F)S(DP) “The theory of cybernetics and (cognitive) informatics” (*).
 - 1.2. F(S)R(D)(E)(F)B “Cognitive modeling in the physical sciences”.
 - 1.2.1. F(S)R(D)(E)(F)S(DP) “The theory of physics, astronomy and space res.” (*).
 - 1.2.2. F(S)R(D)(E)(F)S(DP) “The theory of nuclear physics and physics of atomic nucleus” (*).
 - 1.3. F(S)R(D)(E)(F)B “Cognitive modeling in the nano-technologies and IT”.
 - 1.3.1. F(S)R(D)(E)(F)S(DP) “The theory of electronics, radio-engineering and connection”.
 - 1.3.2. F(S)R(D)(E)(F)S(DP) “The theory of automatics, comp. eng. and the syst. analysis based on CMT” (*).
 - 1.3.3. F(S)R(D)(E)(F)S(DP) “The theory of nano-technologies for the mechanical-engineering, instrument-making, polygraphy, reprography and photo-cinema-technics, easy and food-processing industry, transport, architecture and construction” (*).
 - 1.4. F(S)R(D)(E)(F)B “Cognitive modeling in the exact sciences”.
 - 1.4.1. F(S)R(D)(E)(F)S(DP) “The theory of (theoretical) mechanics and gyroscopes” (*).
 - 1.4.2. F(S)R(D)(E)(F)S(DP) “The theory of mechanical-engineering, instrum.-making and metrology”.
 - 1.4.3. F(S)R(D)(E)(F)S(DP) “The theory of power-engineering and electrical-engineering”.
 - 1.5. F(S)R(D)(E)(F)B “Cognitive modeling in the ind. and chem. sciences”.
 - 1.5.1. F(S)R(D)(E)(F)S(DP) “The theory of the easy, food, wood and wood-proc. ind., the architecture and cons-tion, the agricul., wood, water, fish ec-my and aqua-culture” (*).
 - 1.5.2. F(S)R(D)(E)(F)S(DP) “The theory of chemistry, chemical technology and chem. ind.” (*).
 - 1.6. F(S)R(D)(E)(F)B “Cognitive modeling in the biological sciences”.
 - 1.6.1. F(S)R(D)(E)(F)S(DP) “The theory of biology and pharmacology”.
 - 1.6.2. F(S)R(D)(E)(F)S(DP) “The theory of physical-chemical bio-technology” (*).
 - 1.7. F(S)R(D)(E)(F)B “Cogn. mod. in physiology, fund. medicine and public-health-services”.
 - 1.7.1. F(S)R(D)(E)(F)S(DP) “The theory of physiology, bio-physiology and private phys.” (*).
 - 1.7.2. F(S)R(D)(E)(F)S(DP) “The theory of medicine, public-health-services, labor safety, environment preservation and ecology of person” (*).

- 1.8. F(S)R(D)(E)(F)B “Cognitive modeling in the sciences about The Earth”.
 - 1.8.1. F(S)R(D)(E)(F)S(DP) “The theory of geo-physics, geology, mining and metallurgy”.
 - 1.8.2. F(S)R(D)(E)(F)S(DP) “The theory of oceanology, structure and physics of atmosphere, geodesy, cartography and geography of The Earth and planets”.
- 1.9. F(S)R(D)(E)(F)B “Cognitive modeling in the social sciences”.
 - 1.9.1. F(S)R(D)(E)(F)S(DP) “The theory of soc. sciences, philosophy, science-study, politics and political sciences, sociology, (cognitive) psychology, state, law and jur. sciences, patenting business, invention and rationalization work” (*).
 - 1.9.2. F(S)R(D)(E)(F)S(DP) “The theory of economics and economic sciences, organization, management, statistics and the financial analysis based on CMT” (*).
- 1.10. F(S)R(D)(E)(F)B “Cogn. mod. in the global problems and int. relations”.
 - 1.10.1. F(S)R(D)(E)(F)S(DP) “The theory of demography, pedagogics and national educ., stand., compl. stud. of sep. countries and regions, general and compl. problems of natural, exact, tech., pub., applied sciences and manufacture branches”.
 - 1.10.2. F(S)R(D)(E)(F)S(DP) “The theory of cult. and cultur.-science, art and art-science, mass communication, journalism and MMM, religion, int. trade and tourist-exc. serv., ext. trade, transp., housing-comm. services, housekeeping and consumer serv. at the int. level”.
- 1.11. F(S)R(D)(E)(F)B “Cogn. modeling in the hist.-philological sciences”.
 - 1.11.1. F(S)R(D)(E)(F)S(DP) “The theory of history and historical sciences”.
 - 1.11.2. F(S)R(D)(E)(F)S(DP) “The theory of science of language, (cognitive) linguistics, literature, study of literature and oral national creativity” (*).
- 1.12. F(S)R(D)(E)(F)B “Cognitive modeling in the sport sciences”.
 - 1.12.1. F(S)R(D)(E)(F)S(DP) “The theory of competitions, sport and sports sciences”.
- 1.13. F(S)R(D)(E)(F)B “Cognitive modeling in the military sciences”.
 - 1.13.1. F(S)R(D)(E)(F)S(DP) “The theory of arch., constr., techn., hist., educ., pol. and econ. in AF”.
2. The set of applied subject domains of activity is defined.
 - 2.1. A(S)R(D)(E)(F)D “Cognitive modeling in the natural sciences”.
 - 2.1.1. A(S)R(E)(F)S(DP)(SRL) “The appl. of (cogn.) informatics, cybernetics, automatics, computer engineering, data transmission and connection” (*).
 - 2.1.2. A(S)R(E)(F)S(DP)(SRL) “The applications of mathematics, math. physics, mechanics, metrology, astronomy, space researches, the complex system analysis based on CMT and complex problems of natural sciences” (*).
 - 2.1.3. A(S)R(E)(F)S(DP)(SRL) “The appl. of geo-chemical ecology and preservation of environment” (*).
 - 2.1.4. A(S)R(E)(F)S(DP)(SRL) “The appl. of the models of The Earth and The Solar system planets in the geography, geology, geodesy, cartography, astronomy and other sciences” (*).
 - 2.1.5. A(S)R(E)(F)S(DP)(SRL) “The appl. of the models, methods and technologies of the geology of oil and gas and oil and gas industry”.

- 2.1.6. A(S)R(E)(F)S(DP)(SRL) “The appl. of the system analysis based on CMT, prediction, standardization, unification and compl. problems of exact technical sciences” (*).
- 2.1.7. A(S)R(E)(F)S(DP)(SRL) “The appl. of theor. and exp. physics, geo-physics, power-engineering, electrical-eng., electronics and radio-eng., nuclear physics, technics and instrument-making” (*).
- 2.1.8. A(S)R(E)(F)S(DP)(SRL) “The appl. of (non)org. chem., crystallography, mineralogy and chem. ind.” (*).
- 2.2. A(S)R(D)(E)(F)D “Cogn. mod. in the applied technical sciences and technologies”.
- 2.2.1. A(S)R(E)(F)S(DP)(SRL) “The applications of mining and metallurgy”.
- 2.2.2. A(S)R(E)(F)S(DP)(SRL) “The applications of the sciences about wood and wood processing”.
- 2.2.3. A(S)R(E)(F)S(DP)(SRL) “The applications of the noo-sphere knowledge and technologies: the (heavy) mechanical-engineering, instrument-making, polygraphy, reprography and photo-cinema-technics, easy and food-processing industry, transport, architecture, construction and other branches” (*).
- 2.2.4. A(S)R(E)(F)S(DP)(SRL) “The appl. of the scientific problems of agro-industr. complex”.
- 2.3. A(S)R(D)(E)(F)D “Cogn. mod. in the geo-political sciences and researches”.
- 2.3.1. A(S)R(E)(F)S(DP)(SRL) “The applications of geo-politics and safety”.
- 2.3.2. A(S)R(E)(F)S(DP)(SRL) “The applications of classical and military history”.
- 2.4. A(S)R(D)(E)(F)D “Cogn. mod. in the society steady development of post-ind. country”.
- 2.4.1. A(S)R(E)(F)S(DP)(SRL) “The appl. of the complex problems of country development” (*).
- 2.5. A(S)R(D)(E)(F)D “Cogn. mod. in the social-economic and jur. sciences”.
- 2.5.1. A(S)R(E)(F)S(DP)(SRL) “The appl. of the interbranch jur. and econ. syst. res. of society and country”.
- 2.5.2. A(S)R(E)(F)S(DP)(SRL) “The appl. of the compl. problems of micro-(macro-) economics, social sphere and market economy of the country”.
- 2.5.3. A(S)R(E)(F)S(DP)(SRL) “The applications of economics, management, sociology, statistics and their other branches”.
- 2.5.4. A(S)R(E)(F)S(DP)(SRL) “The appl. of the fin. an., acc. and audit of (cred.) org. based on CMT” (*).
- 2.6. A(S)R(D)(E)(F)D “Cogn. mod. in the biological and medical sciences”.
- 2.6.1. A(S)R(E)(F)S(DP)(SRL) “The appl. of biology, ecology and physiology of plants”.
- 2.6.2. A(S)R(E)(F)S(DP)(SRL) “The appl. of bio-tech., bio-med., ergon. and labor safety of org. individuals” (*).
- 2.7. A(S)R(D)(E)(F)D “Cogn. mod. in the humanitarian sciences, art and creativity”.
- 2.7.1. A(S)R(E)(F)S(DP)(SRL) “The appl. of (cogn.) linguist., (nat.) creat., culture, art and religion” (*).
- 2.7.2. A(S)R(E)(F)S(DP)(SRL) “The appl. of literature, science-study, philos., journalism and MMM”.
- 2.7.3. A(S)R(E)(F)S(DP)(SRL) “The appl. of the problems of (cogn.) psychology, education, science and support of young scientists (the grants programs and others)” (*).
- 2.7.4. A(S)R(E)(F)S(DP)(SRL) “The appl. of the innovations of the project "The Russian encyclopedias", philosophy of science, technics and technology on the branches of knowledge”.
- 2.8. A(S)R(D)(E)(F)D “Cognitive modeling in the phys. training and sport”.
- 2.8.1. A(S)R(E)(F)S(DP)(SRL) “The appl. of sport, sports sciences and actions”.
- 2.9. A(S)R(D)(E)(F)D “Cognitive modeling in the military sciences”.
- 2.9.1. A(S)R(E)(F)S(DP)(SRL) “The appl. of arch., constr., techn., history, educ., pol. and econ. in AF”.