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## THE FEATURES OF THE STRUCTURE OF "SIO "ACADEMY OF COGNITIVE NATURAL SCIENCES"

**Abstract.** There are directly presented the features of the structure of the noncommercial organization (establishment) "The state international organization "Academy of cognitive natural sciences" ("SIO "ACNS").

**Аннотация.** Непосредственно представлены особенности структуры некоммерческой организации (учреждения) «Государственной международной организации "Академии когнитивных естественных наук"» («ГМО "АКЕН"»).

**Keywords:** the (unique) cognitive modeling technology, division, the scientific journal (newspaper), the fundamental scientific researches branch, the applied scientific researches direction, multi-disciplinarity.

**Ключевые слова:** (единая) технология когнитивного моделирования, подразделение, научный журнал (газета), отделение фундаментальных научных исследований, направление прикладных научных исследований, мульти-дисциплинарность.

### THE INTRODUCTION

"SIO "Academy of cognitive natural sciences" ("SIO "ACNS") acts as the main component of the system of science and education of the country for the creation, distribution and use of the main and derivative scientific results of the cognitive modeling technology (see [www.vetrovan.spb.ru](http://www.vetrovan.spb.ru)): 1) was executed by the principle of "administrative-economy submission"; 2) works in the several main directions, which allow to provide the production of the different fundamental and applied scientific results; 3) includes directly the several various main divisions.

### I. THE DIVISIONS OF "SIO "ACNS"

The various divisions of "SIO "ACNS" of the different appointment are considered.

#### 1.1. The administrative-scientific divisions

The President of "SIO "ACNS", The Co- and Vice-Presidents of "SIO "ACNS" ((non)residents), the secretary-reviewer of The President of "SIO "ACNS", the assistants of The President of "SIO "ACNS" on communications with the (international) academies of (natural) sciences ((non)residents), on communications with the scientific-research institutes (centres) ((non)residents), on communications with the sci. funds ((non)residents), on communications with the other organizations ((non)residents), the members of The Presidium of "SIO "ACNS", the full members of "SIO "ACNS", the members-correspondents of "SIO "ACNS" and the foreign members of "SIO "ACNS".

## 1.2. The scientific-organizational divisions

The scientific council of "SIO "ACNS"" and the scientific schools of "SIO "ACNS"" on phys.-math., tech., soc., econ., chem., biol., med., sport. and mil. sciences – see [www.acns.ml](http://www.acns.ml) (\* – together with "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N." or further by the text "SRI" – see [www.sfacmt.ml](http://www.sfacmt.ml), and also "SF "SFA CMT" n. a. Prokopenko N.A." – see [www.sfacmtfund.ml](http://www.sfacmtfund.ml), "SPbEC n. a. Brezhnev L.I." at "EAST n. a. Sobchak A.A." – see [www.eceast.ml](http://www.eceast.ml), "SEC "SFA CMT" of "RA(M)S" n. a. acad. Burdenko N.N." – [www.sciec.ml](http://www.sciec.ml)), the scientific archive of The scientific council and scientific schools of "SIO "ACNS"" (\*), the dissertation councils of "SIO "ACNS"" [in the different specialties] (\*) (the objects and subjects of research: the information-educational environments, the (credit) organizations, the objects of theoretical mechanics and others) on the physical-mathematical sciences (the spec. 01.02.01 – "Theoretical mechanics"), on the tech. sciences (the spec. 05.13.10 – "Management in social and economic systems", 05.13.01 – "The system analysis, control and information processing"), on the social sciences (the spec. 10.02.21 – "Applied and math. linguistics"), on the economic sciences (the spec. 08.00.10 – "Finance, monetary circulation and credit"), on the chemical sciences (the spec. 02.00.04 – "Physical chemistry"), on the biological sciences (the spec. 03.00.03 – "Molecular biology"), on the medical sciences (the spec. 14.01.07 – "Eye illnesses and ophthalmology", 19.00.01 – "Cognitive psychology", 19.00.02 – "Psycho-physiology of perception", 19.00.03 – "Psychology of work, engineering psychology and ergonomics"), the archive of diss. council of "SIO "ACNS"" (\*) and the sci.-methodical department of "SIO "ACNS"" (\*).

## 1.3. The administrative-economy divisions

The deputy of The President of "SIO "ACNS"" on administrative-economy work (the administrative department of "SIO "ACNS"", the document-circulation department of "SIO "ACNS"", the legal support department of "SIO "ACNS"" (\*), the document-office of "SIO "ACNS"", the archive of documents (on the electronic carriers) of "SIO "ACNS"" (\*), the information-analytical support department of "SIO "ACNS"" (\*), the communication and correspondence (expedition) department of "SIO "ACNS"" (\*), the deposition (of scientific works) department of "SIO "ACNS"" (\*), the certification, licensing and patenting department of "SIO "ACNS"" (\*), the fire-prevention safety department (service) of "SIO "ACNS"" (\*), the construction and repair department of "SIO "ACNS"" (\*), the automation department of "SIO "ACNS"" (\*), the planning of deliveries and shipments of production department of "SIO "ACNS"" (\*), the supply and purchases of production (raw materials) department of "SIO "ACNS"" (\*) and the transport support (transport) department of "SIO "ACNS"" (\*)), the chief accountant of "SIO "ACNS"" (the planning and econ. analysis department of "SIO "ACNS"" (\*), the calculations department of "SIO "ACNS"", the delivery department of "SIO "ACNS"", the clearing of payment requirements and payment assignments department of "SIO "ACNS"", the accounting of commodity-material assets department of "SIO "ACNS"" and the inventory (of the various kinds of property) department of "SIO "ACNS""), the deputy of The President of "SIO "ACNS"" on personnel support (the professional (re)training and improvement of professional skills supervision department of "SIO "ACNS"" (\*), the personnel registration department of "SIO "ACNS"", the electronic accounting of visitors and employees department of "SIO "ACNS"" (\*), the labor safety department of "SIO "ACNS"" (\*), the medicine department of "SIO "ACNS"" (\*) and the professional union (association) department of "SIO "ACNS"" (\*)),

the deputy of The President of “SIO "ACNS"” on library support (the purchase and sale of academic literature department of “SIO "ACNS"” (\*), the academician library service department of “SIO "ACNS"” (\*), the academician fundamental scientific literature department of “SIO "ACNS"” (\*), the academician applied scientific literature department of “SIO "ACNS"” (\*), the normative (and technical) documentation department of “SIO "ACNS"” (\*), the academician periodical scientific editions department of “SIO "ACNS"” (\*), the el. library department of “SIO "ACNS"” (\*) and the funds of library department of “SIO "ACNS"” (\*)), the deputy of The President of “SIO "ACNS"” on publishing-house (of book-printing production) (the publishing-house department of “SIO "ACNS"” (\*), the polygraphy department of “SIO "ACNS"” (\*), the editing department of “SIO "ACNS"” (\*), the printing-house department of “SIO "ACNS"” (\*) and the warehouse of book-printing (finished) production department of “SIO "ACNS"” (\*)), the deputy of The President of “SIO "ACNS"” on security (protection) (the security department of “SIO "ACNS"” (\*), the territory protection department of “SIO "ACNS"” (\*) and the registration of (temporary) electronic passports department of “SIO "ACNS"” (\*)).

#### **1.4. The scientific researches and education management divisions (\*)**

The deputy of The President of “SIO "ACNS"” on scientific work – phys.-math., tech., soc., econ., chem., biol., med., sport. and mil. research directions, on databases and information warehouses (the departments of development of information storages for hardware, software and brainware support and integrated systems (\*)), on hardware (the laboratory of research on hardware (\*)), on software (the laboratory of research on software (\*)), on brainware (the laboratory of research on brainware (\*)), on integrated systems (the laboratory of research on integrated systems (\*)), on quality management (the quality management research department of “SIO "ACNS"” (\*)), on investments and innovations (the investments and innovations research department (\*)), on financial planning (the fin. planning and researches department of “SIO "ACNS"” (\*)), on advertising and marketing (the marketing res. and advertising department of “SIO "ACNS"” (\*)), on purchase and realizations of book-printing (finished) production (the book-printing production delivery (purchases and income flow) research dep. of “SIO "ACNS"” (\*), the book-printing production shipment (sales and outcome flow) research dep. of “SIO "ACNS"” (\*)), on int. relations (the external communications and researches department of “SIO "ACNS"” (\*), the visas registration and researches department of “SIO "ACNS"” (\*), the scientific international programs department of “SIO "ACNS"” (\*), the (international) educational programs department of “SIO "ACNS"” (\*) and the translations (to the foreign languages) department of “SIO "ACNS"” (\*)), on basic and additional (international) educational activity (the basic (remote) education supervision department of “SIO "ACNS"” (\*), the prof. (re)training and improvement of professional skills supervision dep. of “SIO "ACNS"” (\*) and the postgraduate study and doctoral studies supervision department of “SIO "ACNS"” (\*)).

“SIO "ACNS"” allows to create, distribute and use the algorithms, methods and technologies of the system, financial and complex analysis, and also to increase the efficiency of functioning of the system of education and science based on the cognitive modeling technology (CMT).

## **II. THE DIVISIONS OF FUNDAMENTAL AND APPLIED SCIENTIFIC RESEARCHES (AT THE MICROSCOPIC LEVEL) OF "SIO "ACNS"'"**

The structure of "SIO "Academy of cognitive natural sciences"'" ("SIO "ACNS"'"") includes the various divisions of the process of receiving of the scientific results.

### **2.1. The fundamental scientific researches (management) divisions of "SIO "ACNS"'" – the letter "A"**

For the microscopic system, financial and complex analysis – the 26 fundamental scientific researches sections (departments) (FSRS(DP)) on the 13 fundamental scientific researches branches (FSRB) of "SIO "ACNS"'" corresponds to the 26 fundamental developments departments (FDDP) on the 13 fundamental developments branches (FDB) of SRI, and also the 26 sections on the 13 branches of "The Russian academy of sciences" ("RAS"):

A.1. FD(SR)B "Cogn. mod. in the mathematical sciences" ("CM in MS") ("OMN").

A.1.1. FDDP(FSRS(DP)) "The (development of) theory of mathematics and the complex system analysis based on CMT" ("TM and CSAB on CMT") ("SM") (\*).

A.1.2. FDDP(FSRS(DP)) "The (development of) theory of cybernetics and (cognitive) informatics" ("TC and (C)I") ("SPMI") (\*).

A.2. FD(SR)B "Cogn. mod. in the physical sciences" ("CM in PHS") ("OFN").

A.2.1. FDDP(FSRS(DP)) "The (development of) theory of physics, astronomy and space researches" ("TPHA and SR") ("SOFA") (\*).

A.2.2. FDDP(FSRS(DP)) "The (development of) theory of nuclear physics and physics of atomic nucleus" ("TNPH and PHAN") ("SYF") (\*).

A.3. FD(SR)B "Cognitive modeling in the nano-technologies and information technologies" ("CM in N-T and IT") ("ONIT").

A.3.1. FDDP(FSRS(DP)) "The (development of) theory of electronics, radio-engineering and connection" ("TER-E and C") ("SVLTSEB").

A.3.2. FDDP(FSRS(DP)) "The (development of) theory of automatics, computer engineering and the system analysis based on CMT" ("TACE and SAB on CMT") ("SITA") (\*).

A.3.3. FDDP(FSRS(DP)) "The (development of) 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" ("TN-T for M-EI-MPR and PH-C-TE and F-PITA and C") ("SNT") (\*).

A.4. FD(SR)B "Cogn. mod. in the exact sciences" ("CM in ES") ("OEMMPU").

A.4.1. FDDP(FSRS(DP)) "The (development of) theory of (theoretical) mechanics and gyroscopes" ("T(T)M and G") ("SM") (\*).

A.4.2. FDDP(FSRS(DP)) "The (development of) theory of mechanical-engineering, instrument-making and metrology" ("TM-EI-M and M") ("SPMPU").

A.4.3. FDDP(FSRS(DP)) "The (dev. of) theory of power-eng. and electrical-eng." ("TP-E and E-E") ("SE").

A.5. FD(SR)B "Cogn. mod. in the industry and chem. sciences" ("CM in I and CHS") ("OHNM").

A.5.1. FDDP(FSRS(DP)) "The (development of) theory of the easy, food, wood and wood-processing industry, the architecture and construction, the agricultural, wood, water, fish economy and aqua-culture" ("TEFW and W-PIA and CAWWFE and A-C") ("SNM") (\*).

A.5.2. FDDP(FSRS(DP)) "The (development of) theory of chemistry, chemical technology and chemical industry" ("TCHCHT and CHI") ("SCHN").

A.6. FD(SR)B “Cogn. mod. in the biological sciences” (“CM in BS”) (“OBN”).

A.6.1. FDDP(FSRS(DP)) “The (dev. of) theory of biology and pharmacology” (“TB and PH”) (“SOB”).

A.6.2. FDDP(FSRS(DP)) “The (development of) theory of physical-chemical bio-technology” (“TPH-CHB-T”) (“SFCHB”) (\*).

A.7. FD(SR)B “Cognitive modeling in the physiology, fundamental medicine and public-health-services” (“CM in PHFM and P-H-S”) (“OFFM”).

A.7.1. FDDP(FSRS(DP)) “The (development of) theory of physiology, bio-physiology and private physiology” (“TPHB-PH and PPH”) (“SF”) (\*).

A.7.2. FDDP(FSRS(DP)) “The (dev. of) theory of medicine, public-health-services, labor safety, environment preservation and ecology of person” (“TMP-H-SLSEP and EP”) (“SFM”) (\*).

A.8. FD(SR)B “Cogn. mod. in the sciences about The Earth” (“CM in S about E”) (“ONZ”).

A.8.1. FDDP(FSRS(DP)) “The (development of) theory of geo-physics, geology, mining and metallurgy” (“TG-PHGM and M”) (“SGGGGN”).

A.8.2. FDDP(FSRS(DP)) “The (dev. of) theory of oceanology, structure and physics of atmosphere, geodesy, cartography and geography of The Earth and planets” (“TOS and PHAGC and G”) (“SOFAG”).

A.9. FD(SR)B “Cogn. mod. in the social sciences” (“CM in SS”) (“OON”).

A.9.1. FDDP(FSRS(DP)) “The (dev. of) theory of social sciences, philosophy, science-study, politics and political sciences, sociology, (cognitive) psychology, state, law and jurisprudential sciences, patenting business, invention and rationalization-work” (“TSSPHS-SP and PSS(C)PSL and JSPBI and R-W”) (“SFPSPP”) (\*).

A.9.2. FDDP(FSRS(DP)) “The (dev. of) theory of economics and economic sciences, organization, management, statistics and the fin. analysis based on CMT” (“TE and ESOMS and FAB an CMT”) (“SE”) (\*).

A.10. FD(SR)B “Cognitive modeling in the global problems and international relations” (“CM in GP and IR”) (“OGPMO”).

A.10.1. FDDP(FSRS(DP)) “The (dev. of) theory of demography, pedagogics and national education, standardization, complex studying of separate countries and regions, general and complex problems of natural, exact, technical, public, applied sciences and manufacture branches” (“TDP and NESCSSC and RG and CPNETPAS and MB”) (“SGP”).

A.10.2. FDDP(FSRS(DP)) “The (development of) theory of culture and cultural-science, art and art-science, mass communication, journalism and mass media means, religion, internal trade and tourist-excursion service, external trade, transport, housing-communal economy, housekeeping and household services at the international level” (“TC and C-SA and A-SMCJ and MMMRIT and T-ESETTH-CEH and HS at IL”) (“SMO”).

A.11. FD(SR)B “Cogn. mod. in the historical-philological sciences” (“CM in H-PHS”) (“OIFN”).

A.11.1. FDDP(FSRS(DP)) “The (dev. of) theory of history and hist. sciences” (“TH and HS”) (“SI”).

A.11.2. FDDP(FSRS(DP)) “The (development of) theory of science of language, (cognitive) linguistics, literature, literary-science and oral national creativity” (“TSL(C)LLL-S and ONC”) (“SYL”) (\*).

A.12. FD(SR)B “Cogn. mod. in the sport sciences” (“CM in SPS”) (“OSN”).

A.12.1. FDDP(FSRS(DP)) “The (development of) theory of competitions, sport and sport sciences” (“TCSP and SPS”) (“STSSSN”).

A.13. FD(SR)B “Cogn. mod. in the military sciences” (“CM in MS”) (“OVN”).

A.13.1. FDDP(FSRS(DP)) “The (development of) theory of architecture, construction, technics, history, education, politics and economics in the armed forces” (“TACTHEP and E in AF”) (“STASTIOPEVS”).

## **2.2. The applied scientific researches (management) divisions of "SIO "ACNS"" – the letter "B"**

For the microscopic system, financial and complex analysis – the 27 applied scientific researches sections (departments) (ASRS(DP)) on the 9 applied scientific researches directions (ASRD) of "SIO "ACNS"" corresponds to the 27 scientific-researches laboratories (SRL) on the 9 applied developments directions (ADD) of SRI, and also the 27 sections on the 9 directions of "The Russian academy of natural sciences" ("RANS"):

B.1. ASR(D)D "Cogn. mod. in the natural sciences" ("CM in NS") ("NEN").

B.1.1. ASRS(DP)(SRL) "The (res. of) applications of (cognitive) informatics, cybernetics, automatics, comp. engineering, data transmission and connection" ("AP(C)ICACEDT and C") ("SIC") (\*).

B.1.2. ASRS(DP)(SRL) "The (res. of) applications of mathematics, mathematical physics, mechanics, metrology, astronomy, space researches, the complex system analysis based on CMT and complex problems of natural sciences" ("APMMPHMMASRCSAB on CMT and CPNS") ("SMMF") (\*).

B.1.3. ASRS(DP)(SRL) "The (research of) applications of geo-chemical ecology and preservation of environment" ("APG-CHE and PE") ("SNOS").

B.1.4. ASRS(DP)(SRL) "The (research of) applications of the models of The Earth and The Solar system planets in the geography, geology, geodesy, cartography, astronomy and other sciences" ("APME and SSP in GGGCA and OS") ("SNZ") (\*).

B.1.5. ASRS(DP)(SRL) "The (res. of) applications of the models, methods and technologies of the geology of oil and gas and the oil and gas industry" ("APMM and TGO and G and O and GI") ("SNG").

B.1.6. ASRS(DP)(SRL) "The (res. of) applications of the system analysis based on CMT, prediction, standardization, unification and complex problems of exact technical sciences" ("APSAB on CMTPSU and CPETS") ("SSAP") (\*).

B.1.7. ASRS(DP)(SRL) "The (research of) applications of theoretical and experimental physics, geo-physics, power-engineering, electrical-engineering, electronics and radio-engineering, nuclear physics, technics and instrument-making" ("APT and EPHG-PHP-EE-EE and R-ENPHT and I-M") ("SF") (\*).

B.1.8. ASRS(DP)(SRL) "The (research of) applications of (non)organic chemistry, crystallography, mineralogy and chem. industry" ("AP(N)OCHCM and CHI") ("SH") (\*).

B.2. ASR(D)D "Cogn. mod. in the applied tech. sciences and technologies" ("CM in ATS and T") ("NNT").

B.2.1. ASRS(DP)(SRL) "The (res. of) appl. of mining and metallurgy" ("APM and M") ("SGM").

B.2.2. ASRS(DP)(SRL) "The (research of) applications of the sciences about wood and wood processing" ("APS about W and WP") ("SNL").

B.2.3. ASRS(DP)(SRL) "The (research of) applications of the noo-sphere knowledge and technologies: the (heavy) mechanical-engineering, instrument-making, polygraphy, reprography and photo-cinema-technics, easy and food-processing ind., transport, architecture, construction and other branches" ("APN-SK and T: (H)M-EI-MPR and PH-C-TE and F-PITAC and OB") ("SNZT") (\*).

B.2.4. ASRS(DP)(SRL) "The (research of) applications of the scientific problems of agro-industrial complex" ("APSPA-IC") ("SNPAK").

B.3. ASR(D)D "Cogn. mod. in the geo-political sciences and res." ("CM in G-PS and R") ("NSGP").

B.3.1. ASRS(DP)(SRL) "The (res. of) appl. of geo-politics and safety" ("APG-P and S") ("SGB").

B.3.2. ASRS(DP)(SRL) "The (res. of) appl. of classical and military history" ("APC and MH") ("SVIT").

B.4. ASR(D)D "Cognitive modeling in the society steady development of post-industrial country" ("CM in SSDP-IC") ("NURS").

B.4.1. ASRS(DP)(SRL) "The (research of) applications of the complex problems of country development" ("APCPCD") ("SPUR") (\*).

- B.5. ASR(D)D “Cogn. mod. in the social-econ. and jur. sciences” (“CM in S-E and JS”) (“NSEPP”).
- B.5.1. ASRS(DP)(SRL) “The (res. of) appl. of the interbranch jur. and econ. system researches of society and country” (“APIJ and ESRS and C”) (“SMEESI”).
- B.5.2. ASRS(DP)(SRL) “The (res. of) appl. of the complex problems of micro-(macro-)economics, social sphere and market economy of the country” (“APCPM-(M-)ESS and MEC”) (“SPMSRH”).
- B.5.3. ASRS(DP)(SRL) “The (res. of) applications of economics, management, sociology, statistics and their other branches” (“APEMSS and TOB”) (“SES”).
- B.5.4. ASRS(DP)(SRL) “The (res. of) appl. of the financial analysis, accounting and audit of the (credit) organization based on CMT” (“APFAA and A(C)OB on CMT”) (“SFABUA”) (\*).
- B.6. ASR(D)D “Cogn. mod. in the biological and med. sciences” (“CM in B and MS”) (“NBME”).
- B.6.1. ASRS(DP)(SRL) “The (res. of) appl. of biology, ecology and physiology of pl.” (“APBE and PHP”) (“SBE”).
- B.6.2. ASRS(DP)(SRL) “The (research of) applications of bio-technology, bio-medicine, ergonomics and labor safety of organic individuals” (“APB-TB-ME and LSOI”) (“SB”) (\*).
- B.7. ASR(D)D “Cogn. model. in the hum. sciences, art and creativity” (“CM in HSA and C”) (“NGNOT”).
- B.7.1. ASRS(DP)(SRL) “The (research of) applications of (cognitive) linguistics, (national) creativity, culture, art and religion” (“AP(C)L(N)CCA and R”) (“SGNT”) (\*).
- B.7.2. ASRS(DP)(SRL) “The (res. of) appl. of literature, science-study, philosophy, journalism and mass communication means” (“APLS-SPHJ and MCM”) (“SLPZ”).
- B.7.3. ASRS(DP)(SRL) “The (research of) applications of the problems of (cognitive) psychology, education, science and supports of young scientists (the grants program and others)” (“APP(C)PES and SYS(GP and O)”) (“SPOPUM”) (\*).
- B.7.4. ASRS(DP)(SRL) “The (res. of) appl. of the innovations of the project "The Russian encyclopedias", philosophy of science, technics and technology on the branches of knowledge” (“APIPREPHST and T on BK”) (“SRE”).
- B.8. ASR(D)D “Cogn. mod. in the physical training and sport” (“CM in PHT and S”) (“NFS”).
- B.8.1. ASRS(DP)(SRL) “The (research of) applications of sport, sport sciences and actions” (“APSSS and A”) (“SSSNM”).
- B.9. ASR(D)D “Cogn. mod. in the military sciences” (“CM in MS”) (“NVN”).
- B.9.1. ASRS(DP)(SRL) “The (res. of) appl. of architecture, construction, technics, history, education, politics and economics in the armed forces” (“APACTHEP and E in AF”) (“SASTIOPEVC”).

## THE CONCLUSION

“SIO "ACNS"” and “SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N.” allow to develop the main and derivative scientific results based on the cognitive modeling technology and the cognitive models.

### The list of used sources and literature:

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2. The scientific-educational portal “AUT CMT SFA” Vetrov A.N. [www.vetrovan.spb.ru](http://www.vetrovan.spb.ru).