

“Ministry of education and science of The RF”

“The SIO "Academy of cognitive natural sciences””

“The Saint-Petersburg state
electrotechnical university "LETI””

**The features of topology of organization and realization
of innovation integration environment of “The SIO "ACNS””,
“The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov”,
“The SF "SFA CMT" named after N.A. Prokopenko”
and “"SPbEC named after L.I. Brezhnev”
at "EAST named after A.A. Sobchak””**

Collection of scientific reports (and multimedia-slides)

Saint-Petersburg city

2014 y.

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In collection of scientific reports (and multimedia-slides) on the rights of monography presented immediate the features of topology of organization of integrational environment of "The SIO "ACNS"", "The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov", "The SF "SFA CMT" named after N.A. Prokopenko" and "SPbEC named after L.I. Brezhnev" at "EAST named after A.A. Sobchak" and the features of realization of innovative integrational environment of "The SIO "ACNS"", "The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov", "The SF "SFA CMT" named after N.A. Prokopenko" and "SPbEC named after L.I. Brezhnev" at "EAST named after A.A. Sobchak".

Intended for scientists, staff of The SRI, teachers and students of The HEIs, and also qualified specialists-experts on scientific specialties: 05.13.01 – "The system analysis, control and information processing" (technics), 05.13.06 – "Automation of technological processes and manufactures" (industry), 05.13.10 – "Control and computer science in social systems" (technics), 19.00.02 – "Psycho-physiology of perception" (technics and medicine), 19.00.03 – "Psychology of work, engineering psychology and ergonomics" (psychology), 08.00.10 – "Finance, monetary circulation and credit" (economics and finances), 08.00.12 – "The accounting and statistics" (accounting documents of (credit) organizations), 08.00.13 – "Mathematical and instrumental methods of economics" (the financial analysis), 01.02.01 – "Theoretical mechanics" (modeling of hybrid systems with difficult structure), 02.00.04 – "Physical chemistry" (multi-nucleus chemical elements and nuclear polymers) and 03.00.03 – "Molecular biology" (modeling of desoxyribonucleic acid).

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- II. Materials of “The XXth international scientific-practical conference
"Modern education: content, technologies, quality"”,
The RF, Saint-Petersburg city, the 23rd of April 2014 y.,
“The Saint-Petersburg state
electrotechnical university "LETI"” (“The SPbSETU "LETI"”)
- 2.1. The features of topology of organization of integrational environment
of “The SIO "ACNS"”,
“The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov”,
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Vetrov Anatoly Nikolaevich

The features of topology of organization of integrational environment of "The SIO "ACNS"", "The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov", "The SF "SFA CMT" named after N.A. Prokopenko" and "The SPbEC named after L.I. Brezhnev" at "The EAST named after A.A. Sobchak""

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"The AUT CMT SFA", acad. of (nat.) sci. Vetrov A.N. (see www.vetrovan.spb.ru) is applied developed by him the innovative topology of organization of the integrational environment of the private budget (PB) non-commercial organization (establishment) (NCO(E)) "The state international organization (The SIO) "Academy of cognitive natural sciences"" ("The SIO "ACNS"" – see www.acns.spb.ru), the mixed budget (MB) NCO(E) "The scientific-research institute "System and financial analysis based on cognitive modeling technology" of "The Russian academy of (natural) sciences" ("The RA(N)S") named after V.N. Veniaminov" ("The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov" – see www.sfacmt.spb.ru), MB NCO(E) "The scientific fund "System and financial analysis based on cognitive modeling technology" named after N.A. Prokopenko" ("The SF "SFA CMT" named after N.A. Prokopenko" – see www.sfacmtfund.spb.ru) and MB NCO(E) "The Saint-Petersburg exhibition centre named after L.I. Brezhnev" at "The exhibition of achievements of science and technology named after A.A. Sobchak" ("The SPbEC named after L.I. Brezhnev" at "The EAST named after A.A. Sobchak" – see www.eceast.spb.ru), which is effective “acts as at the same time an main component of system of science, education and culture of the post-industrial country and represents the difficult distributed integrated international educational and scientific cluster (system of the diverse organizations) of (difficult) system and financial analysis (at microscopic level), including the main (head) organization “The SIO "ACNS"" and diverse (international) *subordinated and the partner organizations* in sphere of *education* (the basic educational establishments, (virtual) universities, the federal, regional and local training (educational) centres and etc.), *science* (the academies of sciences, SRI – ("The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov" and etc.), *library science* (libraries, funds, catalogs, archives and etc.), *government* (The Presidents, The Governments, government bodies, parties, movements and etc.) *finance* (credit organizations, funds – "The SF "SFA CMT" named after N.A. Prokopenko" and etc.) *and others* (exhibitions and fairs – "SPbEC named after L.I. Brezhnev" at "EAST named after A.A. Sobchak", publishing houses, museums, labor unions, hotels, job centres, the centres of rest, suppliers, shops and bases of raw materials, construction and installation, electronic systems, mail, communication, television and studios of photographers, insurance, examination and standardization, notaries and patent engineers, advertizing agencies, embassies and consulates and etc.) and also their various (*national*) (*foreign*) *branches and representations* in the country, region (constituency), area (edge, prefecture, volost or state) or city (populated area, village (aul) or settlement)" (k – codificator and (or) name of the country of an arrangement (of (not) resident), i – codificator and (or) name of the region of an arrangement (of (not) resident), j – codificator and (or) name of the area of an arrangement (of (not) resident)), and also:

1) potential possibility of association of the distributed diverse information-education and scientific environments (according to licenses) was realized [information-educational (scientific) environments of the educational (scientific) organizations];

1.1) internationalization of information environments at the international level is realized ["The SIO "ACNS"^{kij} – basic (head) scientific (educational) NCO(E), "The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov"^{kj} – basic scientific-productional NCO(E), "The SF "SFA CMT" named after N.A. Prokopenko"^{kij} – basic NCO(E) scientific fund, (V)BEE_{kij} – (virtual) basic educational establishment (organization) and (V)SRC_{kij} – (virtual) scientific-research centre (organization)];

1.2) creation and association of regional inf. environments at the regional level is realized [(V)RSRC_{kij} – (virtual) regional The SRC (organization), (V)RTC_{kij} – (virtual) regional educational (training) centre (organization), R(V)U_{kij} – regional (virtual) university (organization) and (V)RCC_{kij} – (virtual) regional consulting centre (organization)];

1.3) creation and modernization of local information environments at the local level is realized [(V)RSRC_{kij} – (virtual) representation of The SRC (organization) and (V)RBEE_{kij} – (virtual) representation of The BEE (organization), (V)CCSRC_{kij} – (virtual) consulting centre of The SRC (organization) and (V)CCBEE_{kij} – (virtual) consulting centre of The BEE (organization)];

2) double-circuit adaptation between proficit and deficit subjects is realized [individualization of the educational, scientific and cultural organizations of (not) residents];

3) potential possibility of the distributed use of information resources, products and services of information-education environments is realized [main types of modern interfaces of interaction of the computer with the user (command, WIMP – Window Image Menu Pointer and SILK – Speech Image Language Knowledge), operating systems by quantity at the same time solved tasks of user (a single-task, multitask and difficult multitask operating system), on number at the same time working diverse users (a single-user, single-user with opportunity of multiuser and difficult (with difficult authentication) multiuser operating system), on degree of autonomy/possibility of work in global or LAN (a local autonomous, simple network and difficult network), the analysis of opportunities of *the applied software is staticized*: packages of applied programs of diverse appointment for the end user (for automation of document flow in the organization, translation of text in different languages, designing and calculations, design, modeling, statistical analysis and Data-mining), the applied integrated environments of processing and information security (for automation of processing audio- and video-stream and animation (schemes), scanning of level of safety, decrease of level of virus danger and cryptography), studying of opportunities of *the special software is caused*: packages of service software for the end user on branches and packages and means for development of software and creation of relational DB (the integrated environments of development and debugging of programs and creation of banks and DB, debuggers, compilers, interpreters, development tools of DB, warehouses and file servers)].

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By "The AUT CMT SFA", acad. of (nat.) sci. Vetrov A.N. (see www.vetrovan.spb.ru) is applied the author's conception of organization of innovative integration environment, *which acts as an essential strategic component* (at realization of planning in long-term and medium-term (horizon of planning)) *and extremely actually important operational-tactical component* (at realization of planning in medium-term and short term (horizon of planning)) *of modern system of science and education of the post-industrial country, because as a result of effectively (productively) and scientifically were reasonably received:*

1) the author's conception and strategy of informatization of economy subjects of scientific-technical and social-economic progress was practically used [the purposes of political and social-economical development of the country(ies) (world), regions (constituency), cities (populated area, villages or settlements), areas (edges, prefectures, provinces, volosts or states) and other municipalities *are considered*, the local, regional and international programs of a phased transition to information (post-industrial) society, the state policy of creation, introduction and use of an automation means taking into account needs of profit and deficit subjects for (not) production spheres *were considered*]; [By "The AUT CMT SFA" Vetrov A.N. and The Government of The RF with support of The President of The RF was chosen "The Park of the 50th-century of The Great October socialistical revolution named after V.I. Ulyanov (Lenin)" for creation, (re)construction and effective use of "The SIO "ACNS"", "The SRI "SFA CMT" of "The RA(N)S" named after V.N. Veniaminov", "The SF "SFA CMT" named after N.A. Prokopenko", ""The SPbEC named after L.I. Brezhnev" on "The EAST named after A.A. Sobchak"" and the other organizations (in coordination with The Government with support of The President), which "are essential works (valuable monuments) of architecture, town-planning and landscape-gardening art, besides, important objects of historical, cultural, art and scientific heritage for (not) residents at the international level, act as essential basis of federal and international politics and many different programs (actions) in the field of the state and municipal, economic and scientific-technical, educational (social) and cultural, national and international, ergonomic and ecological development of The RF and the foreign countries according to the current Constitution of The RF and int. laws in the territory of the countries of The World" (see my manuscripts to "The Nobel committee");

2) participation in "Competition n. a. A. Nobel" (The Kingdoms of Norway and Sweden) was continued [from 2008 y. to 2013 y. *was submitted* first my application and my manuscript with app. from the 25th of December 2008 y. from 2008 y. to 2014 y. *was submitted* second my application and my manuscript with app. from the 24th of June 2004 y., the 01st of September 2007 y. (with app.) and the 02nd of November 2010 y. (with app.) to "The Nobel committee" through The Government of The RF and The President of The RF for receiving "The Nobel Prize" for the purpose of creation of the specified objects];

3) the essence and tactics of the project according to the structure of organizations are analysed

[the purposes, the plan, problems of introduction, tasks, principles and approaches, fundamental and applied areas of research and subject domains of use, a condition of the environment of introduction and application of main and derivative scientific results, directions, types of different support, system of a complex assessment of quality, the main and additional sources of financing of construction and support *were reflected* – at the expense of the first, second and third (from 2008 y. to 2015 y.) “The Nobel Prize” of the author and financial means of the countries(y) (The Government with support of The President), the target directions of an expenditure of money and an automation means – the level and a type of information systems of class ISO 9000-14000, ERP SAP R3, Balanced score card, Parus (Sail), 1C and the modern software of The FRS of The USA];

4) the developed information resources, products and services were used [from the 01.09.2003 y. to the 31.08.2005 y. www.vetrovan.newmail.ru and from the 01.09.2005 y. to (and from) 31.08.2011 y. www.vetrovan.spb.ru – “The AUT CMT SFA”, acad. of (nat.) sci.. Vetrov A.N., from the 12th of September 2005 y. and from the 11th of November 2008 y. through The Federal tax service of The RF, and from the 31st of October 2013 y. through the CJSC “Regional network information centre” *information domains (portals)*: www.acns.spb.ru – “The SIO “ACNS””, www.sfacmt.spb.ru – “The SRI “SFA CMT” of “The RA(N)S” named after V.N. Veniaminov”, www.sfacmtfund.spb.ru – “The SF “SFA CMT” named after N.A. Prokopenko”, www.eceast.spb.ru – “SPbEC named after L.I. Brezhnev” at “EAST named after A.A. Sobchak”];

5) potential possibility of effective employment and work, professional (re)training and increase of professional skills of social subjects were realized [on physical-mathematical sciences (spec. 01.02.01 – “Theoretical mechanics” and others), on tech. sciences (spec. 05.13.10 – “Management and computer science in social systems”, 05.13.01 – “The system analysis, control and information processing” and others), on social sciences (spec. 10.02.21 – “Applied and math. linguistics” and others), on econ. sciences (spec. 08.00.10 – “Finance, money circulation and credit” and others), on chemical sciences (spec. 02.00.04 – “Physical chemistry” and others), on biological sciences (spec. 03.00.03 – “Molecular biology” and others), on medical sciences (spec. 14.01.07 – “Eye illnesses and ophthalmology”, 19.00.01 – “Cognitive psychology”, 19.00.02 – “Psychophysiology of perception”, 19.00.03 – “Psychology of work, engineering psychology and ergonomics” and others)];

6) the condition of the specified investment projects and organizational structures was estimated [the social-economical and scientific-technical effect of actions *is revealed*];

7) the state registration of the specified organizations was executed and standards were studied [the standard basis the grant forming organizations, licensing, taxation, state registration of LP and LO, schemes of mutual settlements, provision of pensions support, budgetary process, budgetary financing, control of receiving (attraction) of money means (of (not) residents), publications of my scientific works and carrying out the international actions, protection of the rights of persons of subjects to the international protection and delays of publication, public prosecutor's reaction, accounting on the russian and international standards, registration of WWW domains, organizations of the russian and international actions, depositions of my scientific works, staff recruitment and other questions *were applied*].

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