

The topology of organization of the integration environment of “SIO “ACNS””

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“AUT CMT SFA” Vetrov A.N. (see www.vetrovan.spb.ru) was developed the topology of organization of the integration environment of “SIO “ACNS”” (see www.acns.spb.ru), which directly acts as at the same time the main component of the system of science and education of the modern post-industrial society (k – the codificator and (or) name of the country of arrangement (location), i – the codificator and (or) name of the region of arrangement (location), j – the codificator and (or) name of the area of arrangement (location)), and also provides:
1) the association of diverse information environments (according to licenses and permissions) [the information-educational environments of the modern educational organizations, the information-scientific environments of the modern scientific organizations and others];
1.1) the internationalization of information environments at the international level [“SIO “ACNS””_{kij} – the basic scientific noncommercial organization (establishment), “SRI “SFA CMT” of “RA(N)S” n. a. Veniaminov V.N.”_{kij} – the basic scientific-productional noncommercial organization (establishment), “SF “SFA CMT” n. a. Prokopenko N.A.”_{kij} – the basic noncommercial organization (establishment) scientific fund, (V)BEE_{kij} – the (virtual) basic educational establishment (organization) and (V)SRC_{kij} – the (virtual) scientific-research centre (organization)];
1.2) the creation and association of regional inf. environments at the regional level [(V)RSRC_{kij} – the (virtual) regional SRC (organization), (V)RTC_{kij} – the (virtual) regional educational (training) centre (organization), R(V)U_{kij} – the regional (virtual) university (organization) and (V)RCC_{kij} – the (virtual) regional consultation centre (organization)];
1.3) the creation and modernization of local information environments at the local level [(V)RSRC_{kij} – the (virtual) representation of SRC (organization) and (V)RBEE_{kij} – the (virtual) representation of BEE (organization), (V)CCSRC_{kij} – the (virtual) consultation centre of SRC (organization) and (V)CCBEE_{kij} – the (virtual) consultation center of BEE (organization)];
2) the association of deficit and proficit subjects of the inf.-educational environments [the person without education as the potential subject of training, the pupil and graduate of the preschool educational establishment, the pupil and graduate of the special preschool establishment, the pupil and graduate of the (average) comprehensive school, the student and graduate of the professional (special) educational establishment, the student and graduate of the higher (special) educational institution, the specialist of top skills with the certain scientific (academic) degree and others – directly from the educational and scientific organizations of (not) residents (see two competitive units of Vetrov A.N. in the coll. monography of “IHEAS” (“IBI”) “Factors of success in educational activity of modern HEI (higher education institution)”, 2004 y.);

3) the association of diverse inf. resources of the information-educational environments [the primary source of information – the object, process or phenomenon of (in)animate nature at the isomorphism of condition generate the stream of signals of the def. kind, which are subjects to observe and registration to the inf. carrier by the person (org. individual) or to measurement by the tech. means (sensors, voltmeters, oscillographs and others); the secondary source of information – the information provided in the form of data, which are stored on the traditional (paper, punched-tape, punched-card and others) and electronic carriers of information of the electronic calculating machines (the information storages on the magnetic tapes Internal / External Streamers, the inf. storages on the flexible Int. / Ext. FDD and hard magnetic drives Int. / Ext. HDD, the laser storages of information on the optical disks Int. / Ext. CD / DVD / BR-RO(A)M, the information storages on the electronic disks Internal / External Electronic Drives and on the electronic memory cards of Internal / External Electronic Memory Cards); the primary receiver of information – sensor which is carrying out the measurement of continuously arriving signals as the information carriers of the first kind; the secondary receiver of information – the tech. means of collecting, receiving and address distribution of the information of different mission to the tech. information carriers; the consumer of information – the person (organic individual), the information requirement of which initiates the receiving of information on the subject area (problem environment); the traditional printing production – the book, textbook, monography, paper, journal, article, manual, collection of tasks, methodical book, laboratory practical work, dictionary, directory (reference book), report, normative documents, spec. and add. help literature; the electronic printing production – the information resources of local, regional and global computer networks, banks of data and DB, which contain the information in the form of data on the subject areas; the means of display – allow to trace the static and dynamic condition of studied object, process or phenomenon (alphanumeric-digital board, device on punched-tape, monitor, slide projector and plasma panel); the visualization means – allow to provide the visual interpretation of the shown information fragments (tables, schemes, drawings and models); the study and monitoring means – allow to study the diff. objects, processes and phenomena (lab. stand, recorder-registrator, oscillograph, voltmeter, microscope, telescope and model); the audio means – provide to record and reproduction of the audio-stream (the tape-recorder, dictaphone and language laboratory cabinet in the inf.-educational environment); the video- and TV means – realize to record and reproduction of the video-flow of information (the video-recorder, TV, multimedia-projector and SAT for receiving of TV signal)].

It is recommended to study with the following literature references:

1. Vetrov A.N. The evolution features of the theory of information and information technologies on a threshold of the XXIst century: Monography ("Philosophy") (spec. 01.02.01, 05.13.01, 05.13.10, 19.00.03, 08.00.10); "SPbSETU "LETI"". – SPb.: "SPbSETU "LETI"", 2004, M.: "RAS", 2007. – 141 p.: pic. – Bibliogr. 16 nom. – Rus. – Dep. in "RAS".
2. Vetrov A.N. The realization features of the information-educational environments of automated training // "Automation and modern technologies", №8, 2008. – SPb.: "SPbSETU "LETI"", 2007 (Bibliogr. 13 nom. – Rus. – Dep. in "VINITI" of "RAS"). – 10 p.).