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THE APPLIED SCIENTIFIC RESEARCHES DIRECTION
“COGNITIVE MODELING IN THE SOCIAL-
ECONOMIC AND JURISPRUDENTIAL SCIENCES” (“NSEPP”)
OF “SIO "ACADEMY OF COGNITIVE NATURAL SCIENCES"” (PART 2)

The developed “The applied scientific researches direction
“Cognitive modeling in the social-
economic and jurisprudential sciences”” (“NSEPP”)
treats to the applied scientific researches divisions
of “SIO "Academy of cognitive natural sciences"” (“SIO "ACNS"”)
as the main component of the system of science and education of the modern country
for the creation, distribution and use of the main and derivative
scientific results of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru)
[see the applied scientific researches directions and departments of “SIO "ACNS"”]:
1) it is executed by the principle of “administrative-economy submission”;
2) works in the several main directions, which allow to provide
the development of the applied main and derivative scientific results
(my second report on SRW from 2006-2008(9) y. was submitted
to “SPbSETU "LETI"” and “The Government of RF”
for the translation, carrying out of int. action and receiving of “The Nobel Prize”);
3) includes the several various main divisions:
III. “The applied scientific researches department
“Applications of economics, management,
sociology, statistics and their other branches”” (“SES”)
[the applied scientific researches in the area
“Applications of economics and economic sciences” –
usage of economic theory, usage of theory of history of economic idea,
usage of theory of accounting-economic sciences,
usage of theory of the sciences of management of economics,
usage of theory of economic history,
usage of theory of The World economy,
usage of theory of international economic relations,
usage of theory of economic development and growth,
usage of theory of prediction and planning of economics,
usage of theory of economic cycles and crises,
usage of theory of productive forces and scientific-technical progress,
usage of theory of social-economic structure,
usage of theory of the reproductive structure of economics,
usage of theory of accumulation and consumption, usage of theory of well-being,
usage of theory of the territorial structure of economics,
usage of theory of regional and municipal economics,
usage of theory of the branch structure of economics,
usage of theory of financial science, usage of monetary and tax theories,
usage of theory of credit-financial institutes (institutional intermediaries),
usage of theory of the economic problems
of organization and management of country economy,
usage of theory of self-financing, usage of theory of economic incentives provision,
usage of theory of economics of labor, usage of theory of manpower resources,
usage of theory of economics and organization of enterprise,
usage of theory of management of enterprise,
usage of theory of the cognitive modeling technology
in the applications of economics and economic sciences;

the applied scientific researches in the area “Applications of organization and management” – usage of theory and methodology of management, usage of theory of the state and administrative management, usage of theory of organization of economics management, usage of theory of social management, usage of theory of prediction, usage of theory of futurology, usage of theory of strategical management, usage of theory of strategical planning, usage of theory of the cognitive modeling technology in the applications of organization and management;

the applied scientific researches in the area “Applications of the other branches of economics” – usage of theory of manufacture of musical instruments, usage of theory of manufacture of fine-art products, usage of theory of jeweler industry, usage of theory of manufacture of toys, usage of theory of manufacture of sports products, usage of theory of manufacture of writing goods, usage of theory of the cognitive modeling technology in the applications of the other branches of economics;

the applied scientific researches in the area “Applications of sociology” – usage of theory of the general problems of modern sociology, usage of theory of methodology of sociology, usage of theory of technique and technics of sociological researches, usage of theory of society as the system, usage of theory of social relations and processes, usage of theory of social classes, usage of theory of communities and groups, usage of theory of sociology of the spheres of social life, usage of theory of social phenomena and institutes, usage of theory of sociology of personality and behavior, usage of theory of historical and regional sociology, usage of theory of (applied) sociology, usage of theory of history of sociology, usage of theory of the cognitive modeling technology in the applications of sociology;

the applied scientific researches in the area “Applications of statistics” – usage of theory of general statistics, usage of theory of economic statistics, usage of theory of branch statistics, usage of theory of social statistics, usage of theory of international statistics, usage of theory of statistics of the separate countries and social-economic systems, usage of theory of organization and management of statistics, usage of theory of the methods and technical means of gathering, processing and analysis of the statistical information, usage of theory of the cognitive modeling technology in the applications of statistics].

IV. “The applied scientific researches department
Applications of the financial analysis,
accounting and audit of the (credit) organization
based on the cognitive modeling technology” (“SFABUA”) (*)
*[the applied scientific researches in the area
“Applications of the financial analysis, accounting and audit”* (*) –
usage of theory of the general questions of the financial analysis, accounting and audit,
usage of theory of tendencies, dependences and laws
of the financial analysis of the objects, processes and phenomena,
usage of theory of the system, information and cognitive approaches in economics,
usage of theory of the structure and dynamics of functioning
of the financial market of the economic system of the country,
usage of theory of the global purposes of standardization of the accounting
and the problems of unification of the accounting reporting-documentation (the primary registers),
usage of theory of the institutional subjects regulating
the creation, distribution and use of the international standards,
usage of theory of the principles of creation, distribution and use
of the international standards of the financial and accounting reporting-documentation,
usage of theory of the basic methods of transformation of the financial reporting-documentation
prepared by the national standards into the reporting-documentation by the international standards,
usage of theory of formation of the accounting balance
by the international standards of the financial reporting-documentation,
usage of theory of the qualifying tests of the professional participants
of the financial system of the (developed) country,
usage of theory of the administrative-legal forms of existence of the managing subject,
usage of theory of the features of procedure of the financial analysis of the managing subject,
usage of theory of the organizational structure of enterprise and its features
(the educational establishment of the system of education and the information-educational environment),
usage of theory of inflationary depreciation,
usage of theory of discounting and compounding
of the money streams in the economic system of the country,
usage of theory of the indexes of dynamics of the financial market and tools,
usage of theory of dynamics and communications of the managing subjects,
usage of theory of investment and innovative politics
of the managing subject in the financial system of the country,
usage of theory of the organizational, technological, scientific, methodical,
normative-legal, information, hardware, software, brainware,
raw, warehouse, personnel and economic preparations of manufacture
and the bases of the financial analysis and the quality estimation
of activity of the credit and other organization,
usage of theory of requirements and the structure of financial documents
of the (non)industrial organizational structures,
usage of theory of the additional elements of the accounting
and the financial reporting-documentation of the credit organization,
usage of theory of the consumers of the financial reporting-documentation,
usage of theory of the elements of the financial reporting-documentation connected
with the changes of financial and economic activity,
usage of theory of the simple and consolidated accounting and financial reporting-documentation,
usage of theory of the methods of the financial analysis of the different forms of reporting-documentation,
usage of theory of the structure of accounts of the accounting and financial analysis,
usage of theory of the vertical, horizontal and trend
financial analysis based on the analytical coefficients system,
usage of theory of the scheme of carrying out of the auditor check, the financial analysis and audit,
usage of theory of the external and internal control of activity of the different organizations,

usage of theory of the kinds of bank operations,
usage of theory of the structure of the accounting balance (form №1),
usage of theory of the structure of the explanatory note to the accounting balance,
usage of theory of the structure of the report about profits and losses (form №2),
usage of theory of the structure of the explanatory note to the report about profits and losses,
usage of theory of the structure of the report about the change of capital (form №3),
usage of theory of the structure of the report about the movement of money resources on accounts (form №4),
usage of theory of the structure of the explanatory note to the report about the movement of means,
usage of theory of the structure of the appendices to the accounting balance (form №5),
usage of theory of the structure of the report about the target use of received means (form №6),
usage of theory of the structure of the auditor conclusion about the results of activity of the enterprise, (credit) organization, organization of The Federal reserve system of USA,
usage of theory of the analysis of stability of the credit organization and commercial bank,
usage of theory of the basic analytical coefficients of the financial analysis,
usage of theory of the structure of the accounting balance and the report about profits and losses of the enterprise for the introduction of the analytical coefficients system,
usage of theory of the structure of the cognitive modeling technology with dynamic cloning, verification and subverification,
usage of theory of the iterative cycle and the technique of use of the cognitive modeling technology,
usage of theory of the technique of formation of the normative-legal and the information basis for the financial analysis of the organization,
usage of theory of the technique of additional check of the information basis of the financial analysis,
usage of theory of the technique of creation and updating of the working plan of accounts and the model of accounting,
usage of theory of the technique of carrying out of the financial analysis of the organization condition,
usage of theory of the parametrical cognitive models block for the financial analysis and the increase of efficiency of functioning of the objects, processes and phenomena,
usage of theory of the cognitive models structure for the vertical, horizontal and trend financial analysis of the (credit) organization and enterprise,
usage of theory of the ways of representation of the structure of the cognitive models and difficult problem environments: the formal classical of the 0th generation (the logical and production models), the nonformal classical of the 0th generation (the semantic network, the frame network and ontology), the formal new of the 0th generation (the calculus of theory of sets and corteges on domains and the innovative calculus of theory of sets and graphs), the nonformal new of the 0th generation (the multi-level structural scheme and the multi-level encapsulated pyramids combining theory of graphs and theory of sets), the flat of the 1st generation (the cognitive circle and the cognitive disc), the volumetric of the 1st generation (the cognitive cylinder, the cognitive cone and the cognitive sphere), the flat and volumetric of the 2nd generation (the one-, two-, three-, four-, five- and more cognitive circle, cognitive disc, cognitive cylinder, cognitive cone and cognitive sphere), the hybrid of the 3rd generation (the combinations of the existing cognitive models),
usage of theory of the algorithm of formation of the cognitive model structure,
usage of theory of the technique of research of the cognitive model parameters,
usage of theory of the algorithm of analysis of a posteriori results of research,
usage of theory of formation and calculation of the units of the accounting balance of the industrial and nonproductive organization,
usage of theory of calculation of the cognitive models parameters for the vertical, horizontal and trend static and dynamic financial analysis of the (credit) organization in the conditions of definiteness and uncertainty,
usage of theory of software for the automation of research tasks,
usage of theory of the statistical substantiation of practical use of the received results,
usage of theory of the factors influencing to the efficiency of functioning of the (credit) organization in the economic system,
usage of theory of organization and plan of carrying out of the experiment,
usage of theory of research of the cognitive models parameters for the vertical, horizontal and trend financial analysis,
usage of theory of preliminary processing of a posteriori results of diagnostics,
usage of theory of choice of the statistical analysis methods of the generated data sets,
usage of theory of the financial analysis of the dynamics of resultativity of the financial-economy activity of the (credit) organization,
usage of theory of the dispersion, regression, discriminant, cluster analysis, multivariate scaling, factor analysis and bibliographic lists].
The applied scientific researches directions and departments of "SIO "ACNS", allow to develop the main and derivative scientific results of CMT.