

Vetrov Anatoly Nikolaevich, author of the unique cognitive modeling technology
www.vetrovan.(spb.)ru
The RF, Saint-Petersburg city

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

The developed “The applied scientific researches direction
“Cognitive modeling in the social-
economical and jurisprudential sciences”” (“NSEPP”)
treats to the applied scientific researches divisions
of “The SIO "Academy of cognitive natural sciences”” (“The SIO "ACNS””)
as main component of science and education system of the modern country
for 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 “The SIO "ACNS””]:

1) it is executed by the principle of “administrative-economy submission”;
2) works in several main directions, which allow to provide
development of the applied main and derivative scientific results
(my second report on SRW from 2006-2008(9) y. was submitted
to “The SPbSETU "LETI”” and The Government of The RF
for the translation, carrying out of int. action and receiving of “The Nobel Prize”);
3) includes several various main divisions:

III. “The applied scientific researches department
“The applications of the economics, management,
sociology, statistics and their other branches”” (“SES”)

“the applied scientific researches in area
“Applications of economics and economical sciences” –

usage of economical theory, usage of theory of history of economical idea,
usage of theory of accounting-economical sciences,
usage of theory of sciences of management of economics,
usage of theory of economical history,
usage of theory of The World economy,
usage of theory of international economical relations,
usage of theory of economical development and growth,
usage of theory of prediction and planning of economics,
usage of theory of economical cycles and crises,
usage of theory of productive forces and scientific-technical progress,
usage of theory of social-economical structure,
usage of theory of reproductive structure of economics,
usage of theory of accumulation and consumption, usage of theory of well-being,
usage of theory of territorial structure of economics,
usage of theory of regional and municipal economics,
usage of theory of branch structure of economics,
usage of theory of financial science, usage of theory of money and tax theories,
usage of theory of credit-financial institutes (institutional intermediaries),
usage of theory of economics problems
of organization and management of country economy,
usage of theory of self-financing, usage of theory of economical 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 cognitive modeling technology
in applications of economics and economical sciences;

the applied scientific researches in area “Applications of organization and management” – usage of theory and methodology of management, usage of theory of 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 cognitive modeling technology in applications of organization and management;

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

the applied scientific researches in area “Applications of sociology” – usage of theory of 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 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 social life spheres, usage of theory of social phenomena and institutes, usage of theory of sociology of person 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 cognitive modeling technology in applications of sociology;

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

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

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