

The application form for participation in the specified international action
(since the 01st of May 2018 y. the list of the members of "The diss. council" is formed)

The organization _____
 The sub. organization _____ (the name of organization)
 The division _____ (the name of subordinated organization)
 The post _____ (the name of division)
 The scientific degree _____ (the name of post) The scientific rank _____
 Last name _____ (the name of scientific degree) _____ (the name of scientific rank)
 First name _____ (Last name)
 Patronymic _____ (First name)
 The work address _____ (Patronymic)
 _____ (the country, index)
 _____ (the city, street)
 _____ (the house, cabinet or office)
 The work phone _____ The work fax _____ (the work fax number)
 The work el. address of the inf. resource _____
 The work el. address of the el. post _____ (the work el. address of the information resource WWW)
 The home address _____ (the work el. address of the electronic post Email)
 _____ (the country, index)
 _____ (the city, street)
 _____ (the house, flat)
 The home phone _____ The home fax _____ (the home fax number)
 The home el. address of the inf. resource _____
 The home el. address of the el. post _____ (the home el. address of the information resource WWW)
 The UDC and the formulation of question and (or) the name of report and (or) multimedia-presentation _____ (the UDC of question and (or) scientific report and (or) multimedia-presentation by the list of "VINITT" of "RAS")
 _____ (the formulation of question and (or) the name of scientific report and (or) multimedia-presentation)
 The multimedia projector _____ (it is necessary, it is not necessary)
 The necessary additional equipment for the performance locally in "SPbSU" or remotely in the other organization _____
 The basic sciences _____ (it is not necessary, the name of equipment)
 The basic area (branch) _____ (the abbreviation from the list of sciences)
 The basic section _____ (the abbreviation from the list of areas (branches))
 The add. sciences _____ (the abbreviation from the list of sections)
 The add. area (direction) _____ (the abbreviation from the list of sciences)
 The add. section _____ (the abbreviation from the list of areas (directions))
 The post in "SPbSU" _____ (the abbreviation from the list of sections)
 The post in "RA(N)S" _____ (the code of post, the abbreviation from the list of posts)
 The post in the other HEI _____ (the code of post, the abbreviation from the list of posts)
 The post in the other AS _____ (the code of post, the abbreviation from the list of posts)
 The own (basic) support personnel in "SPbSU" _____ or in the other organization _____ (1-4 person(s) under the basic contract) (1-4 person(s) under the basic contract)
 The external (additional) support personnel in "SPbSU" _____ or in the other organization _____ (1-4 person(s) under the additional contract) (1-4 person(s) under the additional contract)
 The quantity of places in "SPbSU" _____ (1-4 person(s) under the additional contract) (1-4 person(s) under the additional contract)
 The pavilion _____ The section _____ The place _____ The slide _____ (the number of pavilion) (the quantity of section) (the quantity of places) (the quantity of slides)
 The PCs _____ The notebooks _____ The LAN/"Internet" _____ The printer (M, B, L, other) _____ (the quantity of PCs) (the quantity of notebooks) (none, the type of channel) (none, the type of printer)
 The necessary multimedia devices for the demonstration at "SPbSU" _____ (not necessary, the name of multimedia device: input, output, audio or video)
 The necessary spec. devices for the demonstration at "SPbSU" _____ (not necessary, the name of special device)
 The quantity of places in the numbers of "The hotel "Moscow"" _____
 The quantity of places in buffet table _____ (1-5 person(s) under the arrangement) (1-5 person(s) under the arrangement)

We ask to confirm Your arrival not later, than for 2 months prior to the beginning of the specified international action.

THE LOCATION (the addresses of organizing committee)

1. The coordination and support of the specified international action (see the list of elements and stages of action) – "The executive office of the rector of "The Saint-Petersburg state university"" to the address RF, 199034, Saint-Petersburg city, Universitetskaya emb., h. 7-9 (the st. of und. "Vasilostrovskaya", st. of und. "Admiral'skaya" and st. of und. "Sportivnaya"), WWW: www.spbu.ru (the official portal of "SPbSU"), Email: spbu@spbu.ru, Phone / Fax: +7(812)328-9701 (work).
 2. The coordination and formation of the list of organizations-participants with the national and foreign members of "The dissertation council" from RF and the foreign countries in "SPbSU" (RF, Saint-Petersburg city), the basic and add. list of the allowed national and foreign members of "The dissertation council" in "SPbSU" (RF, Saint-Petersburg city) (see the list of necessary and sufficient projects of documents) – the management of "The dissertation council" of "SPbSU" to the address RF, 198504, Peterhof city, Universitetsky prospect, h. 35 (the st. of underground "Avtovo" and st. of underground "Kirovsky zavod"), WWW: www.spbu.ru, www.apmath.spbu.ru, the chairman, d.ph.-m.s., prof. Malafeyev Oleg Alekseyevich – Email: malafeyevoa@mail.ru, Phone: +7(812)428-4247 (work), the deputy of chairman, d.ph.-m.s., prof. Petrosyan Leon Aganesovich – Email: lpetrosyan@spbu.ru, decan.pmpu@spbu.ru, Phone: +7(812)428-7159 (work), the scientific secretary, d.ph.-m.s., prof. Kurbatova Galina Ibragimovna – Email: gi_kurb@mail.ru, Phone: +7(812)440-1475 (work).
 3. The basic and add. lists of the allowed national and foreign members of "The dissertation council" from RF and the foreign countries in "SPbSU" (see the lists of sciences, areas (branches and directions) and sections), and also the broadcasting of procedure of the defence of diss. through the network "Internet" – the secretary, c.ph.-m.s., associate prof. Varayuan Marina Ivanovna to the address RF, 198504, Peterhof city, Universitetsky prospect, h. 35 (the st. of underground "Avtovo" and st. of underground "Kirovsky zavod"), WWW: www.apmath.spbu.ru (the official portal of faculty "AM-CP" of "SPbSU"), Email: m.varayuan@spbu.ru, Phone: +7(812)428-4235 (work), the applicant of sci. degree, "AUT CMT SFA" Vetrov Anatoly Nikolaevich to the address RF, 195248, Saint-Petersburg city, prospect Energetikov, h. 36, fl. 82 (the st. of underground "Ladozhskaya" and st. of underground "Novocherkasskaya"), WWW: www.vetrovan.spb.ru (the offic. scientific-educational portal), Email: vetrovan@list.ru, vetrovan@nwgsm.ru, vetrovan80@gmail.com, Phone / Fax: +7(812)222-5291 (home), +7(812)950-2706 (cellular).
 4. The residing of the allowed national and foreign members of "The diss. council" and one (four) accompanying (as agreed) in Saint-Petersburg city for the period of time of carrying out of the specified international action in the preliminary reserved (booked) places in the numbers of "The hotel "Moscow"" ("The group of hotels "Intourist") to the address RF, 191317, Saint-Petersburg city, square Alexander Nevsky, h. 2 (the st. of underground "Ploschad' Alexandra Nevskogo"), WWW: www.hotel-moscow.ru (the official site of "The hotel "Moscow""), Email: welcome@hotel-moscow.ru, Phone / Fax: +7(812)333-2444 (work).

THE REGISTRATION OF PARTICIPANTS

The beginning of participants registration:
 On the 01st of May 2018 y. from 11:00 till 21:00 in the organizing committee (at first, - in the organization-participant and "SPbSU"; at second, - in "The hotel "Moscow"" ("The group of hotels "Intourist"")).

The Opening of the international action and the meeting of "The dissertation council" of "SPbSU" will take place in in "The blue hall" of "SRJ "Physics" ("The scientific park and resource centre on the direction "Nano-technologies") of "SPbSU" on the 21st of October 2020 y. at 15 h. 00 min. (the address RF, The North-Western federal district, Saint-Petersburg city, Peterhof city, st. Ulyanovskaya, h. 1).

1. The formal examination – the specified package of documents.
 2. The examination in essence – the materials of question and (or) scientific reports and (or) multimedia-presentations are sent by mail from the chosen member of "The diss. council" from the organization-participant and (or) the head of organization-participant to the addresses of org. committee ("SPbSU" (RF, Saint-Petersburg city) – 1 piece and "AUT CMT SFA" Vetrov A.N. – 1 piece) only after the formal examination of the specified package of documents and under the preliminary arrangement with the organizing committee only.

"The Saint-Petersburg state university"

THE INTERNATIONAL ACTION of "The Saint-Petersburg state university" ("SPbSU")

on the rights of "The Federal scientific centre of RF" and "The National research university of RF", the author of the unique cognitive modeling technology and the scientific direction "Cognitive computer science, cognitive modeling technology for the system and financial analysis" ("AUT CMT SFA") Vetrov A.N. due to means of the budget and interested natural persons and legal entities – the procedure of defence of the dissertation (in the form of scientific monography) on the rights of manuscript

"The environment of automated training with the properties of adaptation based on the cognitive models" on the competition of scientific degree of the candidate of technical sciences on spec. 05.13.01 – "The system analysis, control and information processing" of "AUT CMT SFA" Vetrov A.N. with participation of the national and foreign members of "The dissertation council" of "SPbSU" for (non)residents at the international level with translation through the global network "Internet" and accommodation in "The hotel "Moscow"" ("The group of hotels "Intourist"")

(it is carried out according to the information letter from the 01st of May 2018 y. №ACNS-01-01052018 of the chairman of "The dissertation council" of "SPbSU", d.ph.-m.s., prof. Malafeyev O.A. and the applicant of scientific degree (the person using the right of international defence), "AUT CMT SFA" Vetrov A.N.)



The information letter – the invitation

The Russian Federation
 Saint-Petersburg city
 2018-2020 y.

ORGANIZING COMMITTEE

1. The rector of "SPbSU", the chairman of "The sci. council" of "SPbSU", "The honorary worker of justice of Russia", the chairman of "The authorized court of Saint-Petersburg city", the deputy of chairman of "The council on science and education at The President of RF", doctor of jurisprudence, professor Kropachev Nikolay Mikhaylovich.
2. The national (residents) and foreign (nonresidents) members of "The dissertation council" of "SPbSU".
3. The applicant of scientific degree (the person using the right of international defence), the acting author, the head, the executor, the legal owner and potential patentee of the unique cognitive modelling technology and the scientific direction "Cognitive computer science, cognitive modelling technology for the system and financial analysis" ("AUT CMT SFA") Vetrov Anatoly Nikolaevich; the objects and subjects of research: the information-educational environments, (credit) organizations and objects of theoretical mechanics, on spec. 05.13.01, 05.13.10, 19.00.03 (technical sciences), on spec. 08.00.10 (economic sciences), on spec. 01.02.01 (physical-mathematical sciences), researches in the field of physical chemistry (spec. 02.00.04) and molecular biology (spec. 03.00.03) are conducted.
4. "The hotel "Moscow"" ("The group of hotels "Intourist").

THE WORKING LANGUAGES

The national language – Russian language (The Russian Federation).
The international language – English language
(The United Kingdom of Great Britain and Northern Ireland).
The synchronous translation from the national Russian language into the international foreign English language.

THE REQUIREMENTS, ORDER OF REPRESENTATION AND THE LIST OF NECESSARY DOCUMENTS SUFFICIENT FOR THE PARTICIPATION

The requirements, order of representation and projects of documents of the member of "The diss. council" and the organization-participant for the participation in the specified international action are submitted on the scientific-educational portal of "AUT CMT SFA" Vetrov A.N. www.vetrovan.spb.ru and the information resources of organizing committee.

THE REQUIREMENTS TO REGISTRATION AND REPRESENTATION OF SCIENTIFIC REPORT AND MULTIMEDIA-PRESENTATION

The requirements to registration and representation of the question and (or) scientific report and (or) multimedia-presentation of the member of "The dissertation council" of "SPbSU" are submitted on the information-educational portal of "AUT CMT SFA" Vetrov A.N. www.vetrovan.spb.ru and the information resources of organizing committee.

SUBJECTS:

- I. The fundamental scientific results of "AUT CMT SFA" Vetrov A.N. on basic and add. sciences, scientific areas and scientific sections.**
Introduction. The fundamental scientific results of the cognitive modeling technology for the system analysis of the information-educational environment of the aut. training:
1.1. The existing contradictions, the aspects of inf. and the relevance of res. [slide 1.1.1].
1.2. The purpose, the object, the subject and the methods of research [slide 1.1.2].
1.3. The tasks of research (dissertation research) [slide 1.2.1].
1.4. The scientific results of diss. research, submitted on defence [slide 1.2.2].
1.5. The reliability of the scientific results of diss. res. and publications [slide 1.2.3].
1.6. The scientific aspects of informatization of the inf.-educational environment and the methodological bases of research [slides 1.3.1-1.3.2].
1.7. The models and technologies of organization of the subject and means of training for a solution of the problem of adaptation in the inf.-educ. environment [slides 1.4.1-1.4.2].
1.8. The complex approach to the synthesis of the inf.-educational environment of the automated training with the properties of adaptation based on the parametrical cognitive models block [slides 1.5.1-1.5.2].
1.9. The main requirements presented to the structure of CM and the structure of CM of subject of training and means of training [slides 1.6.1-1.6.2].
1.10. The genesis of Cognitive computer science, the cognitive modeling technology for the system and financial analysis (as new, (academic) scientific direction) (according to the decision of the Presidium of the Russian Academy of Natural Science), the protocol, No 699, from the 08. of June 2018, y. [slide 1.7.1].
The first scientific result. The structure of the inf.-educational environment and the principles (algorithms) of functioning of the components of the automated (remote) training system with the properties of adaptation based on the parametrical cognitive models block [slides 1.1-1.8].
1.1. The structure of the territorially distributed inf.-educational environment, as the example of the geographically distributed countries, regions and areas [slide 1.1.1].
1.2. The standard scheme of interaction of the subjects of educational establishments and the AWP of the subjects of training [slide 1.2.1].
1.3. The standard scheme of interaction of AWP of the subjects of the inf. environment of educational establishments [slide 1.2.2].
1.4. The classification of the subjects of the information-educational environment of the automated (remote) training [slide 1.2.3].
1.5. The transfer of inf. in the technol. process of the formation of knowledge [slide 1.2.4].
1.6. The classification of the methods of advanced training system of inf. (as the aggregate of knowledge) on the subjects of studying [slide 1.2.5].
1.7. The modifications in the organization of the inf. environment of educational establishments for the support of accounting of the ind. feat. of personality of the subjects of training [slide 1.3.1].
1.8. The modifications in the technological process of the formation of knowledge at the realization of the automated personally-oriented training [slide 1.3.2].
1.9. The comparison of modifications in the organization and technology of automated training for the realization of the contour of adaptation [slide 1.3.3].
1.10. The structure of the information-educational portal of educational (scientific) centre [slide 1.4.1].
1.11. The structure of the inf.-educ. portal of teacher-scientists (on the example of the scientific-educ. portal of AUT CMT SFA Vetrov A.N. in the inf. foreign English language and the nat. Russian language) [slide 1.4.2].
1.12. The structure of the automated training system with the properties of adaptation based on the parametrical cognitive models block [slide 1.5.1].
1.13. The formal description of the structure of the automated training system with the properties of adaptation based on the cognitive models by means of the theory of automatic control [slides 1.6.1-1.6.3].
1.14. The scheme, reflecting the principle (algorithm) of functioning of the basic and applied diagnostic modules [slide 1.7.1].
1.15. The scheme, reflecting the principle (algorithm) of functioning of the electronic textbook with adaptation based on CM [slide 1.7.2].
1.16. The structure and architecture of the electronic textbook [slide 1.7.3].
1.17. The information structure of the subject of studying, displayed at the level of representation of data by means of the electronic textbook [slide 1.7.4].
1.18. The schemes of realization of branching (1 – correct answer, 0 – wrong answer) at the left – linear model and at the right – branched model [slide 1.7.5].
1.19. The algorithm of processing of events initiated by the user in the adaptive means of training (electronic textbook) [slide 1.7.6].
1.20. The structurally-functional scheme of the adaptive representation of information fragments processor [slides 1.8.1-1.8.3].
The second scientific result. The cognitive modeling technology [slides 2.1-2.7].
2.1. The iterative cycle of the cognitive modeling technology [slides 2.1.1-2.1.2].
2.2. The technique of use of the cognitive modeling technology (for the tasks of the analysis of the inf.-educ. environment of aut. training) [slides 2.2.1-2.2.2].
2.3. The recommended bases for the construction of the structure of CM [slide 2.3.1].
2.4. The recommended bases for the construction of the structure of cogn. model in the view of the oriented graph combining the theory of sets [slide 2.3.2].
2.5. The recommended basis for the construction of the structure of cogn. model in the view of the structural scheme (without connections between inf. elements) [slide 2.3.2].
2.6. The representation of the str. of cogn. model by means of the frame model [slide 2.3.3].
2.7. The representation of the str. of CM by means of the semantic network [slide 2.3.4].
2.8. The algorithm of DB for the representation of the structure of CM [slide 2.3.5].
2.9. The algorithm of formation of the structure of cognitive model for the analysis of the inf.-educ. environment of the automated training [slide 2.4.1].
2.10. The technique of res. of parameters of CM of subject of training [slides 2.5.1-2.5.2].
2.11. The technique of research of param. of CM of means of training [slides 2.6.1-2.6.2].
2.12. The algorithm of processing of a post. results of testing [slides 2.7.1-2.7.2].
The third scientific result. The parametrical CM block [slides 3.1-3.2].
3.1. The structure of the parametrical cognitive model of subject of training (the multilevel structural scheme combining the theory of math. sets) [slide 3.1.1].
3.2. The structure of the parametrical cognitive model of means of training (the multilevel structural scheme combining the theory of math. sets) [slide 3.1.2].
3.3. The structure of the modified model of reduced eye of human [slide 3.3.1].
3.4. The structure of the modified model of reduced ear of human [slide 3.4.1].
3.5. *The structure of CM of chemical element (nuclear polymer) with two nuclei (plasmatic formations) in the view of the two-cognitive sphere [slide 3.5.1].
3.6. *The structure of CM of chemical element (nuclear polymer) with three nuclei (plasmatic formations) in the view of the three-cognitive sphere [slide 3.6.1].
3.7. *The structure of CM of chemical element (nuclear polymer) with four nuclei (plasmatic formations) in the view of the four-cognitive sphere [slide 3.7.1].
3.8. *The structure of CM of chemical element (nuclear polymer) with five (and more) nuclei (plasmatic formations) in the view of the five (and more)-cognitive sphere [slide 3.8.1].

- II. The applied scientific results of "AUT CMT SFA" Vetrov A.N. on basic and add. sciences, scientific areas and scientific sections.**
The forth scientific result. The complex of programs for the automation of research tasks of the inf.-educ. environment based on the param. CM block [slides 4.1-4.21].
4.1. The structurally-functional scheme of the complex of programs for the automation of research tasks [slides 4.1.1-4.1.2].
4.2. The algorithm of primary initialization of DB and switching of the modes of funct. of the complex of programs for the aut. of tasks of the system analysis [slides 4.2.1-4.2.2].
4.3. The algorithm of authentication of a user in the aut. training system [slide 4.3.1].
4.4. The interface of the complex of programs in the mode of main button form: the basic diagnostic module [slide 4.4.1].
4.5. The algorithm of filling of content of the adaptive electronic textbook on the basis of the inf. (semantic) model of a subject of studying [slides 4.4.1-4.4.2].
4.6. The algorithm of the extraction of fragments of the means of training of the adaptive means of training (electronic textbook) on the basis of the adaptive representation of inf. fragments processor [slides 4.5.1-4.5.2].
4.7. The algorithm of functioning of the adaptive electronic textbook jointly with the diagnostic module (realized the more precise definition of the level of statement of material) [slides 4.6.1-4.6.2].
4.8. The interface of the adaptive electronic textbook in the mode of administering the review and modification of the parameters of the subjects of studying [slide 4.7.1].
4.9. The interface of the adaptive electronic textbook in the mode of administering the review and modification of the parameters of units of the subject of studying [slide 4.7.2].
4.10. The algorithm of the extraction of fragments of the means of training: the review and modification of the param. of modules of unit of the subject of studying [slide 4.7.3].
4.11. The interface of the adaptive electronic textbook in the mode of administering the review and modif. of the param. of page of module of unit of the subject of studying [slide 4.7.4].
4.12. The interface of the adaptive electronic textbook in the mode of administering the review and modif. of the param. of page of module of unit of the subject of studying [slide 4.7.5].
4.13. The administrating of DB with the values of parameters of the param. CM block: the review and modification of the parameters of CM of subject of training [slide 4.8.1].
4.14. The administrating of DB with the values of parameters of the param. CM block: the review and modification of the parameters of CM of means of training [slide 4.8.2].
4.15. The interface of the adaptive electronic textbook in the mode of adaptive training: the textual representation of information fragments [slide 4.9.1].
4.16. The interface of the adaptive electronic textbook in the mode of adaptive training: the graphical representation of information fragment (flat scheme) [slide 4.9.2].
4.17. The algorithm of functioning of the mode of administering of the basic diagnostic module [slides 4.10.1-4.10.2].
4.18. The algorithm of functioning of the mode of diagnostics in the form of testing of the basic diagnostic module [slides 4.11.1-4.11.2].
4.19. The interface of the basic diagnostic module in the mode of adm. [slide 4.12.1].
4.20. The interface of the basic diagnostic module in the mode of diagnostics: the question for the carrying out of express diagnostics, without use of a priori hypotheses [slide 4.12.2].
4.21. The algorithm of functioning of the applied diagnostic module in the mode of adm. of the question-answers structures of the methods of research of the individual features of the content of examinees [slides 4.13.1-4.13.2].
4.22. The algorithm of functioning of the applied diagnostic module in the mode of diagn. of the ind. features of the cont. of examinees [slides 4.14.1-4.14.2].
4.23. The interface of the applied diagnostic module in the mode of administering of the question-answ. structures of the method of the color perception of Rabkin E.B. [slide 4.15.1].
4.24. The interface of the applied diagnostic module in the mode of diagnostics of the color perception by means of the method of research of Rabkin E.B. [slide 4.15.2].
4.25. The interface of the applied diagnostic module in the mode of administering of the question-answers structures of the subject of plane thinking by means of the eighth block of questions "Plane figures" of the method of res. of R. Amthauer [slide 4.16.1].
4.26. The interface of the applied diagnostic module in the mode of diagnostics of the plane thinking by means of the eighth block of questions "Plane figures" of the method of research of R. Amthauer [slide 4.16.2].
4.27. The interface of the applied diagnostic module in the mode of administering of the question-answers structures of the subject of figurative creativity by means of the method of research of Torrance E.P. [slide 4.17.1].
4.28. The interface of the applied diagnostic module in the mode of diagnostics of the figurative creativity by means of the method of res. of Torrance E.P. [slide 4.17.2].
4.29. The mathematical model of the spherical perimeter of Forster K.F.R. [slide 4.18.1].
4.30. The features of a posteriori data of research of the achromatic and chromatic field of vision of examinee [slide 4.18.2].
4.31. The interface of the applied diagnostic module in the mode of administering of the question-answers structures of the method of research of the achromatic and chromatic field of vision of examinee by means of the computational perimetry: the parameters of the method of research [slide 4.19.1].
4.32. The interface of the applied diagnostic module in the mode of administering of the question-answers structures of the method of research of the achromatic and chromatic field of vision of examinee by means of the computational perimetry: the parameters of the method of research [slide 4.19.2].
4.33. The interface of the applied diagnostic module in the mode of administering of the question-answers structures of the method of research of the achromatic and chromatic field of vision of examinee by means of the computational perimetry: the parameters of DB [slide 4.20.1].
4.34. The interface of the applied diagnostic module in the mode of diagnostics of the achromatic and chromatic field of vision of examinee by means of the computational perimetry [slide 4.20.2].
The fifth scientific result. The statistical justification of the practical use of the received results [slides 5.1-5.6.2].
5.1. The dynamic results of the cycle of adaptive automated training [slide 5.1.1].
5.2. The summary results of the mathematical processing of a posteriori data of the experiment [slides 5.2.1-5.2.4].
5.3. The results of the regression analysis [slides 5.3.1-5.3.3].
5.4. The results of the discriminant analysis: own values for the canonical discriminant functions [slide 5.4.1] and the position of centroids of classes in the space of two discr. functions [slide 5.4.2].
5.5. The results of the multidimensional scaling [slide 5.5.1].
5.9. The results of the factorial analysis [slide 5.5.2].
The dynamic results of the cycle of adaptive automated training (regulation) of the technol. process of controlled formation of knowledge of trainees [slides 5.6.1-5.6.2].
The note: * – recommended to acquaintance with reports on individual initiative SRW of "AUT CMT SFA" Vetrov A.N.