

List of theses defended by the collaborators and
post graduates of the Institute of Mathematics
ASM in the field of computer science

Thesis for the Doctor-habilitat degree

1. *Author:* Sergei Solowiev
Title: Mathematical methods and construction principles of
computer-aided knowledge engineering systems
Language: Russian
Official opponents: Prof. N.Jiganov, Prof. M.Malkovsky, Prof.
V.Khoroshevsky
Date of defence: June, 1996
Place of defence: Tver University, Russia

Theses for Ph.D degree

1. *Author:* Vitaly Fesenko
Title: Some problems of optimality and reliability of translation
in algorithmic languages
Language: Russian
Scientific Supervisor: Dr. M.Bushko-Juk
Date of defence: November, 1967
Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev
2. *Author:* Dmitry Todoroy
Title: Implementation of ALGOL-60 using recursive subroutines
Language: Russian

Scientific Supervisor: Dr. V.Kurochkin

Date of defence: May, 1968

Place of defence: Computing Center of Academy of Sciences of the USSR, Moscow

3. *Author:* Michael Gontsa

Title: Some problems of construction and optimization of algorithms in parametrical programming systems

Language: Russian

Scientific Supervisor: Prof. E.Yushchenko, Dr. V.Redko

Date of defence: November, 1969

Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev

4. *Author:* Anatoly Rusanov

Title: Investigation of properties, dynamic sensitivity and modelling of membrane biopotential generator

Language: Russian

Scientific Supervisor: Prof. M.Byhovsky, Prof. B.Khodorov

Date of defence: December, 1970

Place of defence: Interinstitute Council on medical electronics and cybernetics, AMS of the USSR, Moscow

5. *Author:* Yury Pechersky

Title: Algorithmic methods in some pattern recognition problems

Language: Russian

Scientific Supervisor: Prof. A. Zakrevsky

Date of defence: April, 1973

Place of defence: Institute of Technical Cybernetics AS of Byelorussia, Minsk

6. *Author:* Michael Marichuk

Title: Problems of creation of parametric translation systems and of their computer-aided construction

Language: Russian

Scientific Supervisor: Prof. V.Redko, Dr. M.Gontsa

CHRONICLE

Date of defence: January, 1975

Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev

7. *Author:* Georgy Bostan

Title: Context-controlled technology of multilanguage dialogue translation system design

Language: Russian

Scientific Supervisor: Dr. M.Gontsa

Date of defence: October, 1980

Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev

8. *Author:* Galina Magariu

Title: Investigation and design of methods of programming language semantics implementation in multilanguage dialogue translation systems

Language: Russian

Scientific Supervisor: Dr. M.Gontsa

Date of defence: November, 1980

Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev

9. *Author:* Nikolai Objelyan

Title: Automatic recognition of speech query in information systems

Language: Russian

Scientific Supervisor: Dr. V.Trunin-Donskoy

Date of defence: May, 1981

Place of defence: Computing Center of Academy of Sciences of the USSR, Moscow

10. *Author:* Yury Rogozhin

Title: Universal Tuhring mashines

Language: Russian

Scientific Supervisor: Dr. M.Bushko-Juk

Date of defence: January, 1981

Place of defence: Computing Center of Academy of Sciences of the USSR, Moscow

11. *Author:* Sergei Solowiev
Title: Context free grammatics restoring methods
Language: Russian
Scientific Supervisor: Dr. N.Trifonov
Date of defence: April, 1981
Place of defence: Moscow University, Russia
12. *Author:* Svetlana Cojocararu
Title: Investigation of broken-context grammars and their implementation in translation systems
Language: Russian
Scientific Supervisor: Prof. E.Trahtenberg
Date of defence: January, 1982
Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev
13. *Author:* Sergei Comanescu
Title: Investigation and design of algorithms for parallel sorting and merging
Language: Russian
Scientific Supervisor: Prof. E.Trahtenberg, Dr. M.Marichuk
Date of defence: June, 1983
Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev
14. *Author:* Fedor Frolov
Title: Spatially digital method of processing and recognition of post code hand written index
Language: Russian
Scientific Supervisors: Prof. B.Kutasin, Dr. Yu.Pechersky
Date of defence: April 1984
Place of defence: Institute of Technical Cybernetics AS Belorussia, Minsk
15. *Author:* Constantin Chebotaru
Title: Design and investigation of algorithms for computer-aided construction of translation systems on the basis of attribute grammars
Language: Russian

CHRONICLE

Scientific Supervisor: Dr. V.Kurochkin

Date of defence: November, 1984

Place of defence: Computing Center of Academy of Sciences of the USSR, Moscow

16. *Author:* Galina Solowieva

Title: Methods for constructing expert systems based on the knowledge representation in the system of alternatives

Language: Russian

Scientific Supervisor: Dr. V.Serebriakov

Date of defence: April 1986

Place of defence: Computing Center of Russian Academy of Sciences, Moscow

17. *Author:* Sergei Peretyatkov

Title: Layer approach to construction of extensible basic systems of computer graphics

Language: Russian

Scientific Supervisor: Prof. D.Todoroy

Date of defence: March, 1987

Place of defence: Computing Center of Siberian Branch of the Academy of Sciences of the USSR, Novosibirsk

18. *Author:* Vitaly Cotelea

Title: Aspects of analysis and design of database schemes with functional dependencies

Language: Russian

Scientific Supervisor: Prof. V.Redko, Dr. A.Caranikolov

Date of defence: March 1988

Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev

19. *Author:* Eugen Rotari

Title: Methods and tools for accompanying scientifico-technical programs on the basis of expert estimations

Language: Russian

Scientific Supervisor: Dr. Yu.Pechersky

Date of defence: April 1990

Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev

20. *Author:* Galina Moshneaga

Title: Design and investigation of construction methods of translators from process oriented simulation languages for MIMD-type systems

Language: Russian

Scientific Supervisor: Dr. M.Marichuk

Date of defence: November 1990

Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev

21. *Author:* Petr Bogatenkov

Title: Information exchange in a heterogeneous computer network for scientific research automatization

Language: Russian

Scientific Supervisor: Dr. C.Gaindric

Date of defence: April 1991

Place of defence: Polytechnical Institute, Kishinev

22. *Author:* Gennady Ginkul

Title: Game approach for knowledge base forming in expert systems

Language: Russian

Scientific Supervisor: Dr. V.Pilschikov

Date of defence: April 1991

Place of defence: Moscow University, Russia

23. *Author:* Gennady Andrienko

Title: Methods of comparison for automatic expert knowledge acquisition

Language: Russian

Scientific Supervisor: Dr. S.Solowiev

Date of defence: April 1992

Place of defence: Moscow University, Russia

CHRONICLE

24. *Author:* Elena Boian
Title: Investigation and design of program parallelization methods
Language: Russian
Scientific Supervisor: Dr. M.Marichuk
Date of defence: October 1992
Place of defence: Kiev University, the Ukraine
25. *Author:* Viorica Madan
Title: Investigation and analysis of quantitative characteristics of program quality
Language: Russian
Scientific Supervisor: Dr. M.Marichuk
Date of defence: July 1992
Place of defence: Institute of Cybernetics of Ukrainian AS, Kiev
26. *Author:* Maia Ungureanu
Title: Automatization of efficiency upgrade processes of programming on the basis of discrete multicriterial optimization methods
Language: Russian
Scientific Supervisor: Dr. C.Gaindric
Date of defence: June 1992
Place of defence: Nizhny Novgorod University, Russia
27. *Author:* Natalia Andrienko
Title: Instrumental tools for forming procedural knowledge bases
Language: Russian
Scientific Supervisor: Dr. S.Solowiev
Date of defence: February 1993
Place of defence: Moscow University, Russia
28. *Author:* Alexandre Savinov
Title: The matrix representation of fuzzy knowledge in expert systems
Language: Russian
Scientific Supervisor: Dr. V.Levchenko

Date of defence: November 1993

Place of defence: Moldavian Technical University, Kishinev

29. *Author:* Vasily Sirbu

Title: Instrumental tools for forming procedural knowledge bases

Language: Romanian

Scientific Supervisor: Prof. V.Gladun

Date of defence: November 1993

Place of defence: Moldavian Technical University, Kishinev

30. *Author:* Vsevolod Arnaut

Title: Expert estimations processing methods in decision support systems

Language: Romanian

Scientific Supervisor: Dr. Yu.Pechersky

Date of defence: March, 1996

Place of defence: Institute of Mathematics of Academy of Sciences of Moldova, Kishinev

Yu. Pechersky