Curriculum Vitae

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J. ANTIDZE

Curriculum Vitae

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Post occupied and scientific grades: Director of Scientific Institute of Mathematics and Information Ttechnology, Sokhumi State University, PhD, Senior Researcher in Software Engineering.

Languages: English, French, Georgian (native) and Russian.

Education and Qualification

I graduated from Tbilisi State University (TSU) with a degree in mathematics and mechanics, in 1958. Then, I continued postgraduate studies at the Academy of Sciences of USSR with the specialty of software engineering. In 1961 terminated the postgraduate studies and began to work at TSU at the chair of Numeric Analysis and Computer Technique as an assistant. In 1966 was awarded PhD degree in mathematics. Since 1968, I have been working at I.Vekua Scientific Institute of Applied Mathematics (VIAM). Firstly, I worked as an assistant of the head of the Programming Department and since 1973 as a head of the Systemic Programming Department. Now, I am Director of Scientific Institute of Mathematics and Information Technology, Sokhumi State University. In 1978, I received the qualification of the Senior Scientist in Software development. In 1983-87, I was in mission at Annaba State University (Algeria). There I worked at the faculty of Computer Science as a professor (maitre de conference). I have given lectures (in French) on the art of programming using WAX computers and on the theory of formal grammar and compilation. There, by my supervision were fulfilled 10 master's works and two PhD dissertations. Three times, in 1991,1995 and 2003, I was in scientific mission at Saarland University (Germany).

Pedagogical and scientific activities

Since 1961, I have been giving lectures on the theory and practice of programming at TSU. I gave lectures at the faculty of Exact and Natural Sciences. I have been giving lectures using many programming languages, such as ALGOL-61, ALGOL-68, FORTRAN, PASCAL, DELPHI, BASIC, PL/1, TURBOPROLOG, VPROLOG, C, C++, C#, PERL, OZ, Alice, Haskel and so on. I also have used modular and object oriented programming, graphical interfaces, database theory and practice with corresponding languages - ACCESS, FOXPRO, DBS and SQL. I have been using in practical activity the following operational systems: DOS, WINDOWS, NT4 and UNIX (in particular, LINUX). I have been giving lectures on Internet

application and Internet programming.

By my supervision and participation many projects have been realized. Among them: Experimental machine translation from the Georgian into Russian (1966); Automated system of the financial and management activity of TSU (using PL/1 language and a database managing own system), 1975; PL/1 interactive translator for БЭСМ-6 computer (1978); Package of programs for solutions of spacial problems of solid mechanics (1980) charged by GNTK of USSR, Automated system for construction of teaching courses and their application (the system is composed on TURBOPROLOG) in 1990; Computerized publishing house of TSU (1996}; Constructed and published on Internet the database on activity of TSU (Grant of EURASIA Foundation, 1997); Constructed and published on Internet electronic dictionaries (English-Georgian - 24000 entries Grant of Soros Foundation, German-Georgian, 23000 entries, multilingual dictionary of mathematical terms, 2400 entries, German-Georgian tourist guide), 1990-2000; System of programs of morphological and syntactical analysis of Georgian texts, 1990-2006. 2006-2009, I was a leader of TSU team of the project "Formal practical verification of programs using automated reasoning and model checking", financed by INTAS. Also Moscow State University, Kiev State University, Institute of Cybernetics of Kiev, Timisoara University(Romania) and Linz University(Austria) participate in the project.
 I have 90 published scientific works on theoretical and practical problems of programming; I have been participated in many international scientific symposiums and meetings. For example, 30 Jul.-02 AUG. 2008, I participated in International Conference of Artificial Intelligence and Symbolic Computation (AISC) at Birmingham University, with my report. By my supervision seven postgraduate students have done PhD dissertations in   Software Engineering. Many of them are working abroad at scientific institutes. I am an expert of UNESCO in informatics, a senior member of The International Association of Computer Science and Information Technologies (IACSIT), a member of the Scientific Council of I.Vekua Scientific Institute of Applied Mathematics, TSU.

Publications

1. 1. J.Antidze, N.Gulua. Software Tools for Some Natural Language Texts Computer Processing, International Journal of Computer Technology and Application, David Publishing Company, vol 3, #3, 2012, USA.

2. ჯემალ ანთიძე, ნანა გულუა, ირაკლი ქარდავა.
სპეციალური სისტემა ქართული ენის კომპიუტერული სწავლებისა და ქართული ტექსტების კომპიუტერული დამუშავებისავის, საქართველოს საპატრიარქოს წმიდა ანდრია პირველწოდებულის სახელობის ქართული უნივერსიტეტი, ცხუმ აფხაზეთის მეცნიერებათა აკადემია, მათემატიკოსთა სამეცნიერო კონფერენცია მიძღვნილი პროფესორ რევაზ აბსავას ხსოვნისადმი, 9-10 თებერვალი, 2012.

3. J.Antidze, I.QArdava. Computer Composition of the Georgian word-form by a stem and morphological categories, XXV enlarged session of I.Vekua Institute of Applied Mathematics' seminar, 20-21 April, 2011.

4. J.Antidze, I.Kardava. Morphological Synthesis of Georgian Words, Proceedings of The Sixth International Symposium on Kartvelian Studies, Tbilisi, 14-18, XI, 2011.

5. J.Antidze, I.Kardava. Computer Composition of all Georgian Word-Forms for Given Lexical Unit, Second International Conference of the Georgian Mathematician's Union, Batumi, 2011.

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6. J.Antidze, N.Gulua. Generalized Tools for Computer Realization of Natural Language Models, Proceedings of "The Eleventh International Conference on Pattern Recognition and Information Processing", pages 362-365, Minsk, Belarus, 2011.

7. J.Antidze, N.Gulua. Automatic Semantic Analysis of Georgian Language Phrases, accepted to publish in "Proceedings of Sokhumi State University", 2011.

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10. J.Antidze, N.Gulua, D.Meliqishvili. Towards the Use of Rule-Based Programming for Computer Morphological, Syntactic and Semantic Analyses of the Georgian Texts, International Conference - The Georgian Language and Modern Technologies - 2011, Tbilisi, Georgia, 2011, pp. 27-29

11. J.Antidze, N.Gulua. Software for Processing of Natural Language Texts, Proceedings of Third International Conference "Problems of Cybernetics and Informatics", Volume 1, pages 114-117, Baku, 2010. http://fpv.science.tsu.ge/baku.mht

12. Antidze, N. Gulua. Software tools for morphological and syntactic analysis of natural language and its application for semantic analysis, 1st international conference "Information and Computational Technologies" organized by N. Muskhelishvili Institute of Computational Mathematics and St. Andrew the First Called Georgian University of the Patriarchy of Georgia, 2 – 6 May, Tbilisi, 2010

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16. J. Antidze, N. Gulua. Methods for composition of knowledge bases and their application, Scientific conference of Sokhumi State University's professors, Tbilisi, 2010.

17. J.Antidze. Application of Constraints for Natural Language Texts Computer Processing, I International Conference of Georgian Mathematicians Union, Batumi, Georgia, 12-19 September, 2010. http://www.rmi.acnet.ge/~gmu/I_Annual_Conference/GMU_Book_Abstr.pdf

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