

CURRICULUM VITAE

Alexander Kimovich Shilov

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Educational background

In 1971-1976 I was a student of the college of automation and computer engineering, Taganrog Radio Engineering Institute. I obtained the Diploma in Engineering on specialty «Electronic computers» in 1976.

In 1983-1986 I was a post-graduated student in Saint Petersburg Electrotechnical University «LETI» (scientific adviser – Dr. Vladimir Borisovich Smolov). In 1986 I defended the thesis on the degree of Candidate of Engineering Science (equal to **PhD**) on specialty «Computers, complexes, systems and networks». The topic of dissertation is «Multiprocessor computer system for solving real-time filtering».

I obtained the Diploma of Senior Research Assistant title in 1990.

Additional Skills

I am interested in learning English. I need English for work. Also I like the English culture. Since 2004 I have been in English systematically. In order to improve my language skills I took courses at schools abroad.

During the period of 12.10.2009 – 23.10.2009 I was in International School of Languages, University of Malta. There I got Certificate of Attendance. This is to certify that I successfully completed a two-week course in English.

During the period of 8.03.2010 – 19.03.2010 I was in EC Cape Town English language school, South Africa. There I got Certificate of Studies. This is to certify that I attended an Intensive English course for 2 weeks.

During the period of 8.08.2011 – 19.08.2011 I was in EC Brighton English language school, UK. There I got Upper-Intermediate Certificate of Studies. This is to certify that I attended a General English course for 2 weeks.

During the period of 30.04.2012 – 11.05.2012 I was in Kaplan International College Cairns, Australia. There I got Certificate of Studies. This is to certify that I attended a Vacation English Course for 2 weeks.

Work Experience.

During 1976-1983 I worked as engineer-researcher at Research institute of multiprocessor computing systems after having graduated from Taganrog Radio Engineering Institute. The main fields of activity were the following: high-performance computing systems and parallel systems. The main consumer of scientific results was the government as research studies was supported by the state budget.

During 1986-1996 I worked as a research assistant at Research institute of multiprocessor computing systems (<http://mvs.sfedu.ru/>) after defending the thesis. The fields of my research activity were data flow multiprocessors and systolic computations. The research studies was supported by the state budget.

My current position is **Associate Professor** of Department of Security in Data Processing Technologies of Southern Federal University since 1996 (<http://bit.tti.sfedu.ru>). Also I am Deputy Dean of the college of informational security in Pedagogic Sphere (<http://ictis.sfedu.ru>).

I has been working at CTO Umbrella (<http://umbrella-web.com>, creative director Stas Meshkov) as a part-time Deputy Director (headhunter) since 21.10.2010 to the present day. Services of company: design any type of website and offers custom packages to meet everyone's needs. Clients and Partners: designELEFANT Ltd. (Australia, creative director Don MacLean), 31 Moons (<https://www.31moons.com>, president Melanie McClusky) and others.

Professional Associations and Activities.

I am a member of the Institute of Electrical and Electronics Engineers (IEEE), membership number is 92773763. Also I am a member of the Association for Computing Machinery (ACM), membership number is 4386368. Professor of the Russian Academy of Natural History.

The sphere of scientific investigations.

My current scientific interests are the best practices for an Information Security Management Systems which maintain the availability, confidentiality and integrity of the assets of an organization in appliance with ISO 27001, NIST SP 800-53, COBIT.

Publications: about 50 scientific works, 18 methodical works, 4 inventor's certificate, 15 certificates of state registration of the computer programs, the most important are the following.

Scientific works.

Lutchenko A.E., Polonnikov R.I., Skorohodov E.M., Pudzenkov N.A., Shilov A.K. Vector method for solving the inverse geodesic problem // Questions of radioelectronics. Series OT. – 1980, Issue.9. – PP. 60-63.

Smolov V.B., Stepashkin G.I., Shilov A.K. VLSI implementation of Kalman filtering algorithms // Proc. of the Second All-Union Conference. Methods and means of microelectronic digital transformation and signal processing. – Riga, USSR, 11-13 November, 1986. – PP.554-556.

Inventor's certificate 1481852, G11C 11/00. The buffer memory / Jila V.V., Pudzenkov N.A., Lukashkova G.N., Shilov A.K. (USSR) – № 4177864/24-24; appl. 06.01.87; published 23.05.89, bulletin № 19. – 3 p.

Inventor's certificate 1649126, G06F 15/347. Device for matrix multiplication / Lozbenev V.J., Shilov A.K., Gobunov S.P., Ushakov E.G. (USSR) – № 4691138/24; appl. 16.05.89; published 15.05.91, bulletin № 18. – 3 p.

Inventor's certificate 1714617, G06F 15/347. An apparatus for performing matrix operations / Shilov A.K., Lozbenev V.J. (USSR) – № 4710894/24; appl. 16.05.89; published 23.02.92, bulletin № 7. – 5 p.

Inventor's certificate 1749895, G06F 7/02. Device to isolate extreme numbers / Lozbenev V.J., Shilov A.K., H.F.Parhovenko N.G. (USSR) – № 4732658/24; appl. 11.07.89; published 23.07.92, bulletin № 27. – 4c.

Makarevich O.B., Lozbenev V.J., Shilov A.K. Multiprocessor computing system based on systolic microprocessors // Electronic modeling. – 1980, V. 9, № 6. – PP.21-24.

Babenko L.K., Galuev G.A., Makarevich O.B., Peskova O.Y., Shilov A.K. Neuroprocessor based accelera tor of personal computer//COMBIO'95. Ed. Istvan Erenyi. – Computational Modeling and Imaging in biosciences. Hungarian Academy of Sciences. Central Research Institute for Physics. Keskemet. 28-30 August, 1995 – Budapest, 1995. – PP.14-18.

Babenko L.K., Makarevich O.B., Shilov D.A., Shilov A.K. Software package of raising a quality of twodimensional raster images, their identifications and protection//DSPA'98 Proceedings. The 1st International Conference. Digital signal processing and its applications. June 30 – July 3, Moscow: ICSTI, 1998. V. III-E. – PP.119-122.

Shilov D.A., Shilov A.K., Selyankin V.V. The development of algorithms and programs for the construction of the process analytical description based on evolutionary serch. – DSPA'2000 Proceedings. The 3st International Conference and exhibition on Digital signal processing and its applications. November 29 – December 1, 2000, Moscow: Russia. – PP.254-122.

Mischenko V.I., Shilov A.K. The implementation of cobit 5 model for the administration and management of information technology in the enterprise // Fundamental research. Scientific journal. – 2015, №12 (part 2) – PP.301-305.

Mischenko V.I., Shilov A.K. Risk management information security in automated systems management // Information Systems and Technologies. – 2015, №2 (88) March-April. – PP.138-142.

Mischenko V.I., Shilov A.K. Protecting information in state information systems // Vestnik komp'uternykh i informatsionnykh tekhnologii (Herald of computer and information technologies). – 2015, №3. – PP.45 -47.

Methodical works

Shilov A.K. Application of Common Criteria in preparation the information security professionals // Information counteraction to the terrorism threats – Practical magazine. – Taganrog: TSURE, 2004. – №3. – PP.115-119.

Shilov A.K. Modern methodology of information technology security evaluation. Methodical manual. – Taganrog, TIT SFedU, 2007. – 170 p.

Sal'naya L.K., Shilov A.K. English for Professionals in the field of information security. Methodical manual. – Moscow, Gelios-ARV, 2007. – 208 p.

Nechaeva T.A., Shilov A.K. Business continuity management. Methodical manual. – Taganrog, TIT SFedU, 2009. – 222 p.

Shilov A.K. Integrated data protection in the enterprise. Methodical manual. – Taganrog, SFedU, 2013. – 86 p.

Shilov A.K. Fundamentals of Information Security. Part 1. – Rostov-on-Don, SFedU, 2014. – 169 p.

Shilov A.K. Information security risk analysis / Veselov G.E., Abramov E.S., Shilov A.K. – Taganrog, SFedU, 2015. – 108 p.

Shilov A.K. Information security risk management / Veselov G.E., Abramov E.S., Shilov A.K. – Taganrog, SFedU, 2016. – 107 p. ISBN 978-5-9275-2327-6.