

# Avdeev Alexander Vasilievich

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## PERSONAL

**Date of birth:** January 13<sup>th</sup> 1960

**Family status:** Married, one son.

**Citizenship:** Russia

## EXPERIENCE

**August 2017 – Present: Head of High-Performance Computing Systems Laboratory (Intelligent Computing), Deputy Dean of Innovations, Novosibirsk State University**

**Jan 2017 – July 2017: Deputy Director of Innovation Development, Institute of Petroleum Geology and Geophysics SB RAS**

**Jan 2012 – Sept 2016: Russia/CIS Business Development Manager, Intel Corporation**

- Alexander is responsible for direct Intel software sales and market development in the region (Russia and the Commonwealth of Independent State)
- **Phil De La Zerda**, Intel Corporation: "Working with and managing Alexander Avdeev was indeed a pleasure. Alexander is very adept technically, has strong business acumen and is highly organized. He is one of the most well rounded and professional people I have worked with, and I give him my highest recommendation." Phil can be reached at [phil@delazerda.com](mailto:phil@delazerda.com)
- **Edmund Preiss, EMEA BDM, Intel Corporation:** I was impressed how Alexander grew the Intel's tools business in Russia making use his in-depth tools knowledge and his immense academic Network.
- **Vitaly Sayapin, Dell EMC:** Alexander has unique Business Savvy/Acumen, he is challenging the status quo; every time he focuses on output; Alexander has achieved significant growth of Intel business (Intel software adoption/sales) in Russia/CIS in 2012-2016 and 3X increase in the number of Intel customers. Alexander built trusted relations/links/engagements with management, decision makers and developers in every market segment (government, universities, academy, energy, finance, gaming, manufacturing, etc.) across Russia/CIS; he excels at customer satisfaction - performs the workshops, seminars and conferences in all regions of Russia and CIS (Kazakhstan, Belarus, Armenia, Azerbaijan etc).

**Feb.2007 – Dec 2011: Director of Operations, Intel Corporation**

- As Novosibirsk Director of Operations, Alexander worked closely with Intel Global Operations team, coordinated Business Continuity for all Russia/CIS sites, represented Intel Novosibirsk branch/site externally, worked to identify and develop the training needs and ethical compliance for Intel Novosibirsk branch; ensured good management and staff awareness; He was responsible for site planning - Corporate Services, IT Infrastructure, local project management, local policy definition that aligns with country and business guidelines; he managed site operational indicators to ensure performance and accountability; he also worked with the finance on the site budget , managed spending to the budget
- **Denis Milov:** To avoid "common" words from typical recommendations, let me highlight one example where team in Novosibirsk is the role model for many companies in Russia. It's friendly, work-life balanced and positive organization - it's really One Team. My respect to Alexander who supports and develops this!

**Aug 2004 - Jan. 2007: SW Engineering Manager, Intel Corporation**

- Manager of Intel Math Kernel Library Math Modeling team of 14 Sw engineers; projects were driving by the team - Iterative Sparse Solvers, Poisson solver library, etc. As manager he was responsible for defining areas for development, collaborating with customers,

managing the resources he has, resolving conflicts for those resources among the various tasks and providing counsel and advice to his management on new development areas

- **Bruce Greer, Intel Corporation:** “Alexander managed one of the math library groups for me in Russia. He was most diligent in directing his largely-young group to accomplish our committed work on time. He worked hard to develop the skills and habits in the engineers reporting to him.”
- **Richard Wirt, Intel Corporation:** Alexander was one of our key managers in Novosibirsk. He is very capable and well connected within the region. At the time he provided great technical leadership in math libraries and algorithms for the younger engineers. It has been a few years since he worked for me, but I would recommend him from my past knowledge of his work. In the past few years it appears he has been more in business development for Intel and has gotten high recommendations from those working with him.

**Sept 2000-now: Deputy Dean on Science/Innovations, IT Faculty, Novosibirsk State University.**

**1991 - 2016: Associate Professor, Novosibirsk State University.**

- Delivered lecture courses and practice for NSU students - Numerical methods of solving direct and inverse problems of math physics; Computer modeling.

**1982 - 2004: Senior Scientific researcher at the Institute of Computational Mathematics and Math Geophysics SB RAS**

- Developed theoretical and numerical methods to solving direct and inverse problems of math physics – geophysics, geoelectrics, seismics including. tsunami wave propagation, earthquake prediction, etc

#### **DIPLOMAS and DEGREES:**

**1991: PhD in Applied Mathematics,** Institute of Computational Math and Math Geophysics SB RAS, Novosibirsk

**1982: MSc in Mathematics,** Novosibirsk State University

#### **CERTIFICATES AND AWARDS**

- **2004-2016:** 40+ Intel Russia/CIS Recognition Awards, Intel Russia/CIS Operational Excellence Award
- **2007- 2012.** Annual Special Thank You from Intel CEO Paul Otellini for service and dedication as Intel University instructor
- **2006.** Intel ‘Managing through People’ Certificate.

#### **MAIN PUBLICATIONS**

1. [Avdeev A.V. Intel software for solving research and industrial problems: Modern trends of high performance computing](#) // Modern Information Technologies in Earth Sciences: Proceedings of the IV International Conference (Yuzhno-Sakhalinsk, 7-11 August 2016). – 2016. – С. 24-24
2. [Avdeev A.V. Intel software for solving research and industrial problems: Modern trends of high performance computing](#) // Computational and Informational Technologies in Science, Engineering and Education (Almaty, September 24-27, 2015): Abstracts of the International Conference. – 2015. – С. 8-8
3. [Авдеев А.В., Сивков Д.А. Программные инструменты и технологии Intel для решения исследовательских задач](#) // XI Всероссийский съезд по фундаментальным проблемам теоретической и прикладной механики (г. Казань, 20-24 августа 2015 г.): Сборник докладов. – 2015. – С. 64-64
4. [Власов А.А., Ельцов И.Н., Соболев А.Ю., Фаре А.Н., Лаврентьев М.М., Авдеев А.В., Горбенко Н.И., Ефимов В.А., Story S.Высокопроизводительные вычисления при решении задач электрического и электромагнитного каротажа](#)

- в системе EMF PRO // Актуальные проблемы электромагнитных зондирующих систем: Тез. докл. – 2009. – С. 4-5
5. Власов А.А., Ельцов И.Н., Соболев А.Ю., Фаге А.Н., Лаврентьев М.М., Авдеев А.В., Горбенко Н.И., Ефимов В.А., Story S. [Высокопроизводительные решатели прямых и обратных задач каротажа в системе EMF PRO на основе технологий Intel](#) // Новые методы высокопроизводительных вычислений в геофизике: Материалы Всерос. науч. школы (г. Новосибирск, 20-25 сентября 2009 г.). – 2009. – С. 30
  6. Avdeev A.V., Goriounov E.V., Lavrentiev M.M.(Jr.), Spigler R. [A behavior-oriented model for long-term coastal profile evolution: Validation, identification, and prediction](#) // Applied Mathematical Modelling. – 2009. – Т. 33. – № 10. – С. 3981-3996
  7. Avdeev A.V., Gorbenko N.I., Shustrov N.A. [Intel MKL-based Trust-Region Solvers: Performance and Applications in Oil and Gas Problems](#) // 5th World Congress on Industrial Process Tomography (Bergen, Norway, 3rd - 6th September 2007). – 2007. – С. 265-271
  8. Авдеев А.В., Ельцов И.Н., Лаврентьев М.М. [Система комплексной интерпретации каротажных данных нового поколения](#) // Новые информационные технологии в нефтегазовой отрасли и образовании: 2-я Международная конференция (г. Тюмень, Россия, 24-26 мая 2006 г.): Сборник материалов. – 2006. – С. 127-129
  9. Власов А.А., Ельцов И.Н., Екимова О.А., Соболев А.Ю., Авдеев А.В., Горбенко Н.И., Ефимов В.А., Лаврентьев М.М., Пирогов В.О., Шустров Н.А. [Новая система комплексной интерпретации данных электрического и электромагнитного каротажа EMF PRO](#) // Современные информационные технологии в геологоразведочной и горнодобывающей отраслях: Материалы Международной научной конференции и научно-практического семинара (Казахстан, Усть-Каменогорск, 6-7 июня 2006 г.). – 2006. – С. 19-20
  10. Авдеев А., Горбенко Н., Ефимов В., Лаврентьев М., Пирогов В., Шустров Н., Власов А., Екимова О., Ельцов И.Н., Соболев А.Ю. [Новая высокопроизводительная программная система для комплексной интерпретации данных электрического и электромагнитного каротажа](#) // Бурение и нефть. – 2006. – № 9. – С. 22-23
  11. Avdeev A.V., Gorbenko N.I., Lavrentiev M.M., Erov M.I., Yeltsov I.N. [Processing of EM logging borehole data using high-capacity numerical algorithms and advanced computer techniques](#) // 4th World Congress in Industrial Process Tomography (Aizu, Japan, 5th - 5th September 2005). – 2005. – С. 331-336
  12. Эпов М., Ельцов И., Лаврентьев М., Авдеев А., Горбенко Н. [Быстродействующие алгоритмы обработки данных электромагнитного каротажа нефтяных скважин](#) // Технологии ТЭК. – 2005. – № 2(21). – С. 99-105
  13. Avdeev A.V., Priimenko V.I., Vishnevsky M.P. [Mathematical Problems of Electromagnetoelastic Interactions](#) // NCC Publ. – Novosibirsk – 2004. – 92 p.c.
  14. Avdeev A., Priimenko V., Vishnevskii M. [Mathematical problems of electromagnetoelastic interactions](#) // Bulletin of the Novosibirsk Computing Center. Ser., Mathematical Modeling in Geophysics. – 2004. – № 9. – С. 1-83
  15. Avdeev A.V., Goriounov E.V., Lavrentiev M.M.(Jr.), Spigler R. [Validating the diffusion model for long-term coastal profile evolution](#) // Journal of Inverse and Ill-Posed Problems. – 2004. – Т. 12. – № 6. – С. 563-579
  16. Avdeev A.V., Goryunov E.V., Lavrentiev M.M.(Jr.), Spigler R. [The diffusion model for long-term coastal profile evolution: Numerical validating](#) // Вычислительные технологии. – 2003. – Т. 8. – № 1. – С. 3-11

17. Lavrentiev M.M., Avdeev A.V., Lavrentiev M.M.-jr., Priimenko V.I. [Inverse Problems of Mathematical Physics](#) // VSP Publ. – Boston – 2003. – 272 p.c.
18. [Авдеев А.В.](#), Лаврентьев М.М.-мл., Горюнов Э.В., Валиуллин Р.А., Рамазанов А.Ш. [Численное решение обратной задачи подземной гидромеханики по определению параметров нефтяного пласта](#) // Вычислительные технологии. – 2001. – Т. 6. – № 6. – С. 3-13
19. [Avdeev A.V.](#), Priimenko V.I., Quintal A. [Numerical Modelling of Nonlinear Electromagnetoelastic Interactions](#) // Proceedings of the European Symposium on Numerical Methods in Electromagnetism (JEE'02) (Toulouse, France, 2002). – 2002. – С. IM3
20. [Avdeev A.](#), Priimenko V. [Some Inverse Problems for Coupled Maxwell'S and Lamé System](#) // 6th International Congress of the Brazilian Geophysical Society (Rio de Janeiro, Brazil, 15-19 August 1999). – 1999.
21. [Avdeev A.V.](#), Goryunov E.V., Soboleva O.N., Priimenko V.I. [Numerical solution of some direct and inverse problems of electromagnetoelasticity](#) // Journal of Inverse and Ill-posed Problems. – 1999. – Т. 7. – № 5. – С. 453-462
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24. [Avdeev A.](#), Goryunov E., Priimenko V. [An inverse problem of electromagnetoelasticity: simulteneous determination of elastic and electromagnetic parameters and the unknown source of elastic oscillations](#) // Bulletin of the Novosibirsk Computing Center. Ser., Mathemaical Modeling in Geophysics. – 1998. – № 4. – С. 49-63
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26. [Avdeev A.V.](#), Priimenko V.I., Goruynov E.V., Zvyagin D.V. [Direct and Inverse Problems of Electromagnetoelasticity](#) // 5th International Congress of the Brazilian Geophysical Society (Sao Paulo, Brazil, Sept 28 - Oct 2, 1997). – 1997. – С. 658-660
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29. [Avdeev A.V.](#), Goruynov E.V. [The inverse problem of acoustics: Determination of source wavelet and velocity](#) // Journal of Inverse and Ill-posed Problems. – 1996. – Т. 4. – № 6. – С. 475-482
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32. Avdeev A.V., Gorunov E.V., Skazka V.V. [On the numerical solution of the inverse problems in combined statements](#) // Advanced mathematics, computations and applications: Proceedings of the International Conference AMCA-95 (Novosibirsk, Russia, 20-24 June, 1995). – 1995. – С. 264-272
33. Avdeev A., Goryunov E., Skazka V. [The combined inverse problem of acoustics and geoelectrics: numerical approach](#) // Bulletin of the Novosibirsk Computing Center. Series: Mathematical Modeling in Geophysics. – 1994. – № 1. – С. 27-39
34. Avdeev A.V. [Numerical solution of one inverse problem with an unknown source wavelet](#) // Bulletin of the Novosibirsk Computing Center. Series: Mathematical Modeling in Geophysics. – 1994. – № 1. – С. 41-48
35. ALEKSEEV A.S., AVDEEV A.V., FATIANOV A.G., CHEVERDA V.A. [WAVE PROCESSES IN VERTICALLY-INHOMOGENEOUS MEDIA - A NEW STRATEGY FOR A VELOCITY INVERSION](#) // Inverse Probl.. – 1993. – Т. 9. – № 3. – С. 367-390
36. Алексеев А.С., Авдеев А.В., Фатьянов А.Г., Чеверда В.А. [Замкнутый цикл математического моделирования волновых процессов в вертикально-неоднородных средах \(прямые и обратные задачи\)](#) // Математическое моделирование. – 1991. – Т. 3. – № 10. – С. 80-94
37. Avdeev A.V. [An Optimizational Method for Solving the Inverse Dynamic Problem for the Wave Equation in the Class of Vertically Inhomogeneous Media: Numerical Modeling](#) // Geophysical Data Inversion Methods and Applications. Proceedings of the 7th International Mathematical Geophysics Seminar held at the Free University of Berlin, February 8-11, 1989. – 1990. – С. 455-469