

Europass curriculum vitae

Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

E-mail(s)

Krainyukov Alexander

Lomonosova street 1, Riga, LV-1019 (Latvia)

+371 7100634

Krainukovs.A@tsi.lv



Work experience

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

SEPTEMBER 1999 – PRESENT

Docent, lecturer of the Faculty of Computer Science and Telecommunication

Education and Research

Transport and Telecommunication Institute, 1 Lomonosova Street, LV-1019, Riga, Latvia

Education and research activities

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

SEPTEMBER 1992 – AUGUST 1999

Lecturer of Radar and Measuring Equipment Department

Education and Research

Riga Aviation University, 1 Lomonosova Street, LV-1019, Riga, Latvia

Education and Research Activities

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

SEPTEMBER 1990 – AUGUST 1992

Lecturer of Radar Department

Education and Research

Riga Civil Aviation Engineering Institute, 1 Lomonosova Street, LV-1019, Riga, Latvia

Education and Research Activities

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

JUNE 1986 – AUGUST 1990

Assistant of Radar Department

Education and Research

Riga Civil Aviation Engineering Institute, 1 Lomonosova Street, LV-1019, Riga, Latvia

Type of business or sector	Education and Research Activities
Dates	SEPTEMBER 1985 – June 1986
Occupation or position held	Junior Investigator of Radar Department
Main activities and responsibilities	Research
Name and address of employer	Riga Civil Aviation Engineering Institute. 1 Lomonosova Street, LV-1019, Riga, Latvia
Type of business or sector	Education and Research Activities
Dates	MAY 1983 – June 1985
Occupation or position held	Engineer of Radar Department
Main activities and responsibilities	Research
Name and address of employer	Riga Civil Aviation Engineering Institute. 1 Lomonosova Street, LV-1019, Riga, Latvia
Type of business or sector	Education and Research Activities

Education and training

Dates	1995 (June)
Title of qualification awarded	Master Degree in Engineering
Principal subjects/Occupational skills covered	Radar Simulation
Name and type of organisation providing education and training	Riga Aviation University
Level in national or international classification	Master of Science in Engineering
Dates	September, 1974 – February, 1980
Title of qualification awarded	Diploma of Radio Engineer
Principal subjects/Occupational skills covered	Radio Engineering, Avionics, Electronics, Computer Calculations
Name and type of organisation providing education and training	Riga Civil Aviation Engineers Institute, Faculty of Radio Electronic
Level in national or international classification	Diploma of Radio Engineer in Aircraft Radio and Electronic Equipment Maintenance

Personal skills and competences

Mother tongue(s)

Other language(s)

Self-assessment

European level ()*

Latvian

English

Russian

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
good	good	good	good	good
good	good	good	good	good

Technical skills and competences

I am the professional educator in different technical subjects, for example:

- Electronics;
- Analogue electronics;
- Methods and Devices of Electrical Measurements;
- Theory of Information Coding and Transference;
- Microwave Electronic Techniques;
- Embedded Electronic Devices and Programming;
- Industrial Automation Distributed Systems.

I have practical experience of design of software for Signal Processing of Subsurface Radar Sounding, Radar Simulation, Decision of reverse tasks of the subsurface sounding, for Embedded Electronic Devices.

Computer skills and competences

1. Free use in scientific researches: PC, Windows, Office, Matlab, C/C++, Delphi, C#, .NET programming.
2. Certificate of Microsoft Course: 2124- Pprogramming with C#. 18.01.2005.
3. Certificate Transport and Telecommunication Institute, Latvia "VHDL & SystemC Digital Systems Design", 26.05.2006.

Artistic skills and competences

I am author of 50 scientific papers and 5 teaching books

Other skills and competences

I have

1. Certificate Nr 1218 University of Latvia „Augstskolu mācībspēku pedagoģiskā pilnveide / Innovācijas augstākās izglītības sistēmā / Izglītības darba vadība „- 23.02.2006. - 29. 06.2006.
2. Certificate Transport and Telecommunication Institute, Latvia „Course of English”, Reg. No 57-06., 12. 06.2006.
3. Certificate of Transport and Telecommunication Institute, Latvia „Pedagoģiskās meistarības pilnveidošana”, 29.05.2009.
4. Certificate of Transport and Telecommunication Institute, Latvia „Pedagoģiskās meistarības pilnveidošana”, 28.05.2010.

Driving licence(s)

No

Additional information

Site of Transport and Telecommunication Institute: <http://www.tsi.lv>

References:

- A. Krainyukov, V. Kutev. Intelligent system for radar monitoring of transport communications. Proceedings of the 7th International Conference RELIABILITY and STATISTICS in TRANSPORTATION and COMMUNICATION (RelStat'07), 25-27 October 2007, Riga, Latvia, Transport and Telecommunication Institute, 2007. – pp. 312 - 320. (in English);
- A. Krainyukov, V. Kutev Model-based results of inverse problem solution for radar monitoring of roadway coverage The International Conference „Modelling of business, industrial and transport systems“, 07–10 May 2008, Riga, Latvia”, Transport and Telecommunication Institute, 2008. – pp. 169-176. (in English);
- A. Krainyukov, V. Kutev. Results of inverse problem solution for radar monitoring of roadway coverage. Transport and Telecommunication, 2008, Volume 9, No 2, pp. 4–13. Transport and Telecommunication Institute, Lomonosov 1, Riga, LV-1019, Latvia (in English);
- A. Krainyukov, V. Kutev, D. Opolchenov. Reconstruction of the roadway coverage parameters from radar subsurface probing data. Proceedings of the 8th International Conference RELIABILITY and STATISTICS in TRANSPORTATION and COMMUNICATION (RelStat'08), 15-18 October 2008, Riga, Latvia, Transport and Telecommunication Institute, 2008. – pp. 146-154. (in English);
- A. Krainyukov, V. Kutev, D. Opolchenov. Influence of Genetic Algorithm Parameters on Solution of Inverse Structural Problem for Radar Subsurface Probing. Abstracts of the 9th International Conference RELIABILITY and STATISTICS in TRANSPORTATION and COMMUNICATION (RelStat'09), 21–24 October 2009, Riga, Latvia, Transport and Telecommunication Institute, 2009. – pp. 77 - 78. (in English);
- Krainyukov, D. Opolchenov. Using Genetic Algorithm for Solution of Inverse Structural Problem for Radar Subsurface Probing. Computer Modelling and New Technologies, 2010, Volume 14, No 1, pp. 56–63. Transport and Telecommunication Institute, Lomonosov 1, Riga, LV-1019, Latvia (in English);
- A. Krainyukov, V. Kutev, D. Opolchenov. Reconstruction of the Roadway Inner Structure Electro-physical Characteristics. Abstracts of the 10th International Conference RELIABILITY and STATISTICS in TRANSPORTATION and COMMUNICATION (RelStat'10), 20–23 October 2010, Riga, Latvia, Transport and Telecommunication Institute, 2010. – pp. 76 - 77. (in English);
- A. Krainyukov, V. Kutev, D. Opolchenov Reconstruction of the Roadway Inner Structure Electro-physical Characteristics. Proceedings of the 10th International Conference “Reliability and Statistics in Transportation and Communication” (RelStat'10), 20–23 October 2010, Riga, Latvia, p. 55-62. ISBN 978-9984-818-34-4 Transport and Telecommunication Institute, . (in English);
- A. Krainyukov, V. Kutev, D. Opolchenov. Approach to Hardware Implementation of Genetic Algorithm for Inverse Problem of Roadway Coverage Subsurface Probing Solution. Transport and Telecommunication, 2010, Volume 11, No 4, pp. 14–28. Transport and Telecommunication Institute, Lomonosov 1, Riga, LV-1019, Latvia (in English);
- A. Krainyukov Radar Monitoring of Roadway Coverage. Proceedings of The 8th International Workshop on Intelligent Transportation (WIT 2011), Hamburg University of Technology, Institute of Telecommunications, Hamburg, Germany, March 22nd - 23rd, 2011. - pp. 5 - 10. (in English);
- V.Kutev, A. Pozdnyakov, A. Krainyukov. A New Approach to Calculating X-ray Patterns of the Diffractometer for Nanostructured Coatings, Proceedings of The VIII International congress "Machines, Technologies, Materials 2011"(Varna, Bulgaria, September 19-21, 2011), Vol.2: "Machines. Materials", pp. 171-175 (in English);
- A. Krainyukov. Reconstruction of the roadway coverage parameters from radar probing measurements, Tenth International Conference on „Surface Effects and Contact Mechanics: Computational Methods and Experiments” (Contact and Surface 2011, Wessex Institute of Technology, UK), pp. 37-48. ISBN:978-1-84564-530-4, WIT Press 2011 (in English);
- A. Krainyukov, V. Kutev. Using of Radar Monitoring for Road Coverage Quality Estimation, Proceedings of the 11th International Conference “Reliability and Statistics in Transportation and Communication”(RelStat'11) (Riga, Latvia, October 19–22, 2011), pp. 275-283 (in English)
- A. Krainyukov, V. Kutev. Problem of Road Coverage Quality Estimation by GPR Probing Method. Transport and Telecommunication, 2011, Volume 12, No 4, pp. 4–12. Transport and Telecommunication Institute, Lomonosov 1, Riga, LV-1019, Latvia (in English).

- A. Krainyukov, V. Kutev Improving the Effectiveness of Radar Monitoring for Roadway Coverage. Abstracts of the 11th International Conference RELIABILITY and STATISTICS in TRANSPORTATION and COMMUNICATION (RelStat'12), 17–20 October 2012, Riga, Latvia, Transport and Telecommunication Institute, 2012. – pp. 89 - 90. (in English).
- Alexander Krainyukov, Valery Kutev Development of Professional Competence for Higher School Education of Electronics Specialists. In: Abstracts of Inter-Higher School Scientific and Educational Conferences “ACTUAL PROBLEMS of EDUCATION” (MIP 2013), 21-22 February 2013, Riga, Latvia, pp. 16-17.
- A. Krainyukov, V. Kutev Improving of Data Processing Effectiveness for Pavement Structural Evaluation Using Subsurface Radar Probing. Transport and Telecommunication, 2013, Volume 14, No 2, pp. 143–154. Transport and Telecommunication Institute, Lomonosov 1, Riga, LV-1019, Latvia (in English)
- A. Krainyukov, V. Kutev, E. Andreeva. (2013). Solving of Radar Pavement Monitoring Inverse Problem by Using of Bees Algorithms. In: *Proceedings of the 13th International Conference “Reliability and Statistics in Transportation and Communication” (RelStat'13), Riga, Latvia, October 16–19, 2013, (pp. 277-292).* Riga: Transport and Telecommunication Institute (in English).

11.02.2014.

A. Krainyukov