

## Europass curriculum vitae

### Personal information

Surname(s) / First name(s)

**Grakovski Alexander**

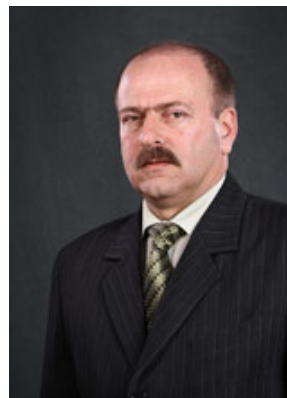
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### Work experience

Dates

APRIL 2013 - PRESENT

Occupation or position held

Dean of Computer Science and Telecommunications Faculty  
Professor

Main activities and responsibilities

Education and Research

Name and address of employer

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

Type of business or sector

Education and research activities

Dates

JANUARY 2010 – APRIL 2013

Occupation or position held

Dean of Computer Science and Telecommunications Faculty  
Professor, Head of Department of Telecommunications

Main activities and responsibilities

Education and Research, International Collaboration

Name and address of employer

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

Type of business or sector

Education and research activities

Dates

JANUARY 2008 – JUNE 2008

Occupation or position held

Associate Professor, Head of Department of Telecommunications,  
Deputy Vice-Rector for international affairs

Main activities and responsibilities

Education and Research, International Collaboration

Name and address of employer

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

Type of business or sector

Education and research activities

Dates

SEPTEMBER 2006 – DECEMBER 2007

Occupation or position held

Associate Professor, Head of Telecommunications and Network Technologies Department,  
Head of Telecommunications professor group, Head of International projects group

Main activities and responsibilities

Education and Research, International Collaboration

Name and address of employer

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

Type of business or sector

Education and research activities

Dates

SEPTEMBER 2002 – JUNE 2006

Occupation or position held

Associate Professor, Head of International projects group

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Grakovski Alexander

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Main activities and responsibilities	Education and Research, International Collaboration
Name and address of employer	Transport and Telecommunication Institute, 1 Lomonosova, LV-1019, Riga, Latvia
Type of business or sector	Education and research activities
Dates	SEPTEMBER 1999 – JUNE 2002
Occupation or position held	Docent (Senior Lecturer)
Main activities and responsibilities	Education and Research
Name and address of employer	Transport and Telecommunication Institute. 1 Lomonosova, LV-1019, Riga, Latvia
Type of business or sector	Education and research activities
Dates	JUNE 1991 – OCTOBER 1999
Occupation or position held	Docent (Senior Lecturer)
Main activities and responsibilities	Education and Research
Name and address of employer	Riga aviation university. 1 Lomonosova, LV-1019, Riga, Latvia
Type of business or sector	Education and research activities
Dates	SEPTEMBER 1989 – OCTOBER 1991
Occupation or position held	Assistant
Main activities and responsibilities	Education and Research
Name and address of employer	Riga Civil Aviation Engineering Institute. 1 Lomonosova, LV-1019, Riga, Latvia
Type of business or sector	Education and research activities

## Education and training

Dates	2008 (June)
Title of qualification awarded	Professor ( <i>Diploma TSI-PR No 007</i> )
Principal subjects/Occupational skills covered	Information technologies
Name and type of organisation providing education and training	Riga Technical University, Transport and Telecommunication Institute
Level in national or international classification	Professor
Dates	2004 (November)
Title of qualification awarded	Associate Professor ( <i>Diploma TSI-AP No 002</i> )
Principal subjects/Occupational skills covered	Information technologies
Name and type of organisation providing education and training	Riga Technical University, Transport and Telecommunication Institute
Level in national or international classification	Associate Professor
Dates	1992 (August)
Title of qualification awarded	Doctor Degree in Engineering
Principal subjects/Occupational skills covered	Modeling of non-linear processes in lightning return stroke
Name and type of organisation providing education and training	<i>Riga Aviation University</i>
Level in national or international classification	Doctor of Science in Engineering

Dates 1989 (February)

Title of qualification awarded Candidate of Science in Electrical Engineering

Principal subjects/Occupational skills covered Modeling of non-linear processes in lightning return stroke

Name and type of organisation providing education and training Moscow State Institute of Energetics

Level in national or international classification First Doctoral Degree in Engineering

Dates September, 1979 – February, 1985

Title of qualification awarded Diploma of Electrical Engineer

Principal subjects/Occupational skills covered Electrical Engineering, Avionics, Computer Calculations

Name and type of organisation providing education and training Riga Civil Aviation Engineers Institute, Faculty of Avionics

Level in national or international classification Diploma of Electrical Engineer in Avionics

**Personal skills and competences**

Mother tongue(s) **Russian**

Other language(s)

Self-assessment  
European level (\*)

**Latvian**

**English**

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

(\*) Common European Framework of Reference (CEF) level

Social skills and competences

I have a positive experience in different social activities, for example as:

- Member of European Engineering Deans Council (EEDC);
- Member of the of Latvian Operations Research Society;
- Member of Latvian Higher School Professors Association;
- Member of Editorial Board of the Journal "Transport and Telecommunication", Scientific & Research Journal (ISSN 1407-6160), Transport and Telecommunication Institute, Riga, Latvia; and other.

Organisational skills and competences

I have a positive experience in different organizational activities, for example:

- Dean of Computer Science and Telecommunications Faculty;
- Head of International Projects Group during last years (Deputy Vice-Rector for international affairs later) I was responsible for management of international activities and projects in the institution with more then 150 personal of full time staff and more than 3500 students;
- Institutional ERASMUS Programme Coordinator;
- Head of Department of Telecommunications;
- Member of the Steering Committee of Int.Conf. IVETTA-2005.

I am leader of team in different research and development projects:

- "Fiber optic sensor applications for automatic measurement of the weight of vehicles in motion: research and development (2010-2013)", RDSF funding project of Ministry of Science and Education of Latvia, No. 2010/0280/2DP/2.1.1.1.0/10/APIA/VIAA/094, 19.12.2010. (vice-leader of project team)
- "Multimodal Europe-Asia corridor transport system model design for logistic chain "Latvia-Belarus" optimisation (TransLaB)", Latvia – Belarus state collaboration programmes project (2007-2009);

- "Optimisation of Uncontainered Waste Removal Routes from Riga City Center", Agreement with Department of Transport of Riga Municipality (2006-2007)
- "Analysis and Suggestions for Development of Cargo Transport Flows in Riga City", Agreement with Department of Transport of Riga Municipality (2005) (vice-leader of project team)

#### Technical skills and competences

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

- Numeric methods
- Transport Telematics
- Introduction into telecommunications speciality
- Computer technologies in scientific research
- Theory of Nonlinear Systems

I have practical experience of design of software for Air Traffic Control Systems, Image and Signal Processing, (telecommunications, navigations, telematics, RFID and others)

#### Computer skills and competences

Free use in scientific researches, Windows, Office, Matlab, C++, e-Moodle (Certificate of EHU DL course), Certificate of Microsoft Office Specialist in Excel-2000.

#### Artistic skills and competences

I am author of 61 scientific papers, 7 scientific and teaching books

#### Other skills and competences

- Scientific International Conference "Reliability and Statistics in Transport and Communications (RelStat)" Programme Committee Member (from 2009.)
- Scientific Conference "Research and Technologies - Step into the Future (RaTSiF)" Programme Committee Member (from 2009.)
- Research popular journal "Природа и компьютерный мир" (Nature and Computer World), TSI & ISMA, editorial staff member (from 2001);

#### Driving licence(s)

Yes

**References:**

- Alexander Grakovski, Alexey Pilipovecs, Igor Kabashkin and Elmars Petersons. Tyre Footprint Reconstruction in the Vehicle Axle Weight-in-Motion Measurement by Fibre-optic Sensors. // in Proceedings of 10th Int.Conf. on Informatics in Control, Automation and Robotics (ICINCO-2013), 29-31 July, Reykjavik, Iceland, SCITEPRESS, 2013, vol.1, pp.527-536.
- A. Grakovski, A. Batenko, G. Berzins, I. Kabashkin, E. Petersons and V. Truhachov. "Impact of the external factors on the measurement of weight-in-motion by fibre optic sensor"// Computer Modelling and New Technologies, 2012, vol. 16, No 4, pp. 10–17.
- A.Grakovski, A.Murza. Development of Segmentation Method Based on "Mass Centre" Approach for Video Surveillance Data of Transport Vehicles Flow // TRANSPORT and TELECOMMUNICATION. - Riga: TTI, 2010, vol. 11, No 2, pp. 18–29.
- J. Revzina, A. Grakovski. Cisco Networking Academy Learning Technologies Integration into the National Academic Standardised Study Programme. // in Proceedings of Fifth International Conference on Networking and Services (ICNS-2009), 20-25 April 2009 Valencia, Spain, IEEE Computer Society Conference Publishing Services (CPS), Los Alamitos, California, 2009, pp.592-596.
- A.Grakovski, I.Kabashkin, A.Ressin. Intelligent Transport System for Intra-City Logistics based on WWW-Technologies. // In TRANSPORT and TELECOMMUNICATION. - Riga: TTI, 2008, vol. 9, No 3, pp. 30–38.
- A. Berezhnoy, A. Grakovsky, A Nesterov. The "Green Wave" Mode Production on the Two-Lane Highways During the Construction Works Time Period. / TRANSPORT, Vilnius, VGTU, 2007, Vol XXII, No 4, p. 263–268.
- A.Grakovski, N.Odnakish. The elimination of image pre-processing errors in transport telematics tasks on the basis of spline-binarization and cellular automata methods. / TRANSPORT and TELECOMMUNICATION. - Riga: TTI, 2006, vol.7, No 2. – p. 350 – 358.
- A.Grakovski, A.Ressin, A.Medvedev Intelligent system of operational planning of supply chain for small and medium enterprises (SME). Proceedings (Abstracts and CD-Rom) of the 3th International Symposium "Networks for Mobility, October 5-6, 2006, Stuttgart, Germany", Stuttgart, Stuttgart University, 2006. – p. 30.
- A.Medvedev, A.Grakovski. Metodology of freight transport flows optimization in lagre city (on example of Riga city). Proceedings of International Conference on Operation Research "Simulation and Optimisation in Business and Industry (SOBI – 2006), May 17-20, 2006, Tallinn, Estonia", Kaunas University of Technology, 2006, pp. 218-222.
- A.Grakovski, A.Ressin, A.Medvedev Optimisation of operational routing for supply chain on basis of genetic algorithms // Proceedings of the 6th International Conference "Reliability and Statistics in Transportation and Communication (RelStat'06), 25–28 October 2006, Riga, Latvia", Riga, Transport and Telecommunication Institute, 2006. – pp. 125-137.
- A.Grakovski, A.Medvedev. Automated Technology of Logistics Operators Study based on Games Strategy (TreLogic). In Proceedings of International Conference «Innovative Vocational Education and Training in Transport Area (IVETTA)», February 24-25, 2005, Riga, Latvia, pp. 158-162.
- A.Grakovski, A.Alexandrov. Spectral Method of Derivatives Numerical Calculation in Subsurface Radar Sounding Signals Digital Processing Problem. / MATHEMATICAL MODELLING and ANALYSIS, Vilnius: Technika, vol. 10, No 1, 2005. – pp. 31-40.
- A. Grakovski, A. Aleksandrov, R. Kivlyonok. Exploratory Signal Analysis Using Fractal Dimension / TRANSPORT and TELECOMMUNICATION. - Riga: TTI, 2004, vol.5, No 2. - pp.118-124. (in Russian).

## Annexes

### List of projects with Alexander Grakovski participation:

- “Fiber optic sensor applications for automatic measurement of the weight of vehicles in motion: research and development (2010-2013)”, RDSF funding project of Ministry of Science and Education of Latvia, No. 2010/0280/2DP/2.1.1.1.0/10/APIA/VIAA/094, 19.12.2010.
- European COST Action TU0804 “Survey Harmonisation with New Tehnologies Improvement” (2009-2012).
- “Multimodal Europe-Asia corridor transport system model design for logistic chain “Latvia-Belarus” optimisation (TransLaB)”, Latvia – Belarus state collaboration programmes project (2007-2009)
- “Perspective directions of information processing scientific base development in Latvia”. Latvian Council of Science (LZP) cooperation project No. 10.0003 (2006-2009)
- „START- Short Term Tasks for Cargo Transport Traffic Reorganization”. European Commission Intelligent Energy Executive Agency project (2006-2008)
- “Developing Regions through Spatial Planning and Logistics & ICT Competence (LogOnBaltic)”. BSR INTERREG III B programmes project (2006-2008)
- “Intelligent regional network and its implementation pilot project functioning concept and national model development on base of Daugavpils Academic Park”. Latvian Council of Science project No 06.0027 (2006.-2009.)
- „Traffic Congestion Monitoring Methodology Development for Transport Flows Improvement in City”, Agreement with Department of Transport of Riga Municipality (2007.)
- “Optimisation of Uncontainered Waste Removal Routes from Riga City Center”, Agreement with Department of Transport of Riga Municipality (2006-2007)
- “Cargo transport flows analysis proposals for traffic system transformation development”, Agreement with Department of Transport of Riga Municipality (2005)
- “The Baltic Tangent”. BSR INTERREG III B programme (2005-2007)
- “Integrating Logistics Centre Networks in the Baltic Sea Region (InLoC)”. BSR INTERREG III B programme (2004-2006)
- Innovative Vocational Education and Training in Transport Area (IVETTA) - Leonardo da Vinchi Programme (2004-2005)

March 27, 2014

A.Grakovski