



Curriculum vitae Europass



Personal Information

Name **Slușanschi, Emil-Ioan**
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E-mail emil.slusanschi@cs.pub.ro
Nationality Romanian
Date of Birth 11 June 1976
Sex Male

Workplace

Faculty for Automatic Control and Computers – Professor

Professional experience

Period	October 2000 - present.
Position	Professor (Assistant Professor 2000-2007, Lecturer 2007-2009, Associate Professor 2009-2014)
Name and address of employer	Faculty for Automatic Control and Computers – University Politehnica of Bucharest – Department of Computer Science and Engineering Splaiul Independentei 313, Bucuresti, 060042, Sector 6, Romania Phone: +4021-402 91 00 ; +4021-318 10 22 / 23 / 24 / 25
Activity	Research and Education , PhD Advisor from 2015
Period	October 2001 – October 2005
Position	Scientific researcher
Name and address of employer	Institute for Scientific Computing RWTH Aachen University D-52056 Aachen, Germany Phone: ++49-(0)241-80-28902 Fax: ++49-(0)241-80-22241
Activity	Research and Education
Period	1999 – 2001
Position	Instructor
Name and address of employer	Cisco Academy Training Center – CATC Romania, University Politehnica of Bucharest, EF303, Splaiul Independentei 313, sector 6, București
Activity	IT Consultancy

Education

Period	October 2001 – October 2005
Degree	Doctor in Computer Science (Dr. rer. Nat.)
Studies / Professional skills	High performance scientific computing, compilers, automatic semantic transformations of computer codes, numerical algorithms, multi-core and multi-processor systems.
Name and type of the education establishment	RWTH-Aachen University, Aachen, Germany
Level of national / international classification	ISCED 8
Period	2000 – 2001
Degree	Master in Computer Science
Studies / Professional skills	Advanced computer architectures and computing systems
Name and type of the education establishment	Faculty for Automatic Control and Computers – University Politehnica of Bucharest – Department of Computer Science and Engineering
Level of national / international classification	ISCED 7
Period	1995 – 2000
Degree	Bachelor in Computer Science
Studies / Professional skills	Mathematics, physics, electronics, data structures and algorithms, operating systems, computer networks, compilers, computer systems architecture, parallel programming, numerical systems, computer graphics.
Name and type of the education establishment	Faculty for Automatic Control and Computers – University Politehnica of Bucharest – Department of Computer Science and Engineering
Level of national / international classification	ISCED 6
Period	1991 – 1995
Degree	Baccalaureate
Name and type of the education establishment	Mathematics and informatics
Level of national / international classification	National Informatics High-School „Tudor Vianu” of Bucharest
	ISCED 4

Other specializations

Volkshochschule Aachen, Germania

January 2002

Specialization in „Scientific Writing”

Institut für Informatik, Technische Universität München, Germany

February 2002

Specialization in „Numerical Methods for solving engineering problems in Computational Fluid Dynamics”

RWTH-Aachen University, Germania

March 2002 and March 2006

Specialization in „SUN HPC Technologies – MPI and OpenMP Programming”.

University Politehnica of Bucharest, Romania

June 2006

Specialization in „Intel Compiler Suite and VTune – Profiling and application performance optimization”.

EVTEK University of Applied Sciences in Espoo, Finlanda

June 2007

Specialization in „Improving the Security Knowledge in ICT”

University Politehnica of Bucharest, Romania

September and December 2007

Specialization in „IBM Cell computing basic and advanced issues ”

Cell/B.E. and Deep Computing Division, IBM TJ Watson Labs, New York, USA

September 2008

Specialization in „IBM Cell-based application development”

Advanced Technology & Center for advanced Studies in Cairo, Egypt

November 2009 – January 2010, Online Training.

Specialization in „IBM Blue Gene /L Architecture and Programming”

Intel Software College, Bucuresti, Romania

December 2009.

Specialization in „Intel Multicore Programming”

NVidia Corporation, Bucuresti, Romania

June 2012.

Specialization in „NVidia GP-GPU & CUDA Programming”

Research projects and grants

International grants

EUWB - Coexisting Short Range Radio by Advanced Ultra-Wideband Radio Technology (Project director – 2010-2011)

- Financing: EU – Framework Programme 7 IP – Objective ICT-2009.9.5, ID: 258066.
- Duration: 2 years (2010 – 2011)

A Framework for Multi-Scale Weather Forecasting and Environmental Early Warning (Project director – 2009)

- Financing: IBM Open Collaborative Research Project.
- Duration: 1 year (2009)

National grants

TWISNet - Trustworthy Wireless Industrial Sensor Networks (Project director – 2010-2013)

- Financing: EU Framework Programme 7 STREP, Obiectiv ICT-2009.1.4, ID: 258280.
- Duration: 3 years (2010 – 2013)

LEXNET - Low EMF Exposure Future Networks (Project director – 2012-2015)

- Financing: EU Framework Programme 7 IP, Obiectiv ICT-2011-8, ID: 318273.
- Duration: 3 years (2012 – 2015)

EUWB - CoExisting Short Range Radio by Advanced Ultra-WideBand Radio Technology (Project director – 2011)

- Financing: ANCS – PN-II – Modulul III, PC7, ID 105-1 EU.
- Duration: 1 year (01.01-31.07.2011)

TWISNet - Trustworthy Wireless Industrial Sensor Networks (Project director – 2011-2013)

- Financing: ANCS – PN-II – Modulul III, PC7, ID 105-2 EU.
- Duration: 3 years (01.01.2011-30.09.2013)

Low EMF Exposure Networks – LEXNET (Project director – 2012-2015)

- Financing: ANCS – PN-II – Modulul III, PC7, ID 239-EU.
- Duration: 3 years (01.01.2013-30.10.2015)

Awards:

- Cell GAF – A Genetic Algorithms Framework for the Cell Broadband Engine, IBM Faculty Awards, 2009.

Invited talks / lectures:

Professional prestige and visibility

- Programarea Procesoarelor Cell/B.E., Universitatea Gh. Asachi Iasi, 05.2008
- Programarea Procesoarelor Cell/B.E., Universitatea Transilvania Brasov, 05.2008
- Grid Infrastructure and Applications at UPB, ALICE Workshop, 21.08.2008
- High Performance Computing at CS@UPB, IBM Workshop 25.11.2008
- Complex R&D Projects Benefit of IBM's HPC Solutions, IBM Academic Days, 19.03.2009, Brasov
- Introduction to Grid Computing, SEE-Grid-Workshop, 29.04.2009, Bucuresti
- Intel Multicore Training, Universtatea Bucuresti – Facultatea de Matematica, 2-4.12.2009
- Intel Multicore Training, Universtatea Craiova – Facultatea de Automatica si Calculatoare, 9.12.2009
- BG Infrastructure Technology Skills and Research Framework for Multi-Scale Weather Forecasting, IBM Academic Days, 15.03.2010, Cluj-Napoca, Romania.
- Intel Multicore Training, Universitatea Lucian Blaga din Sibiu, 19.04.2010
- Intel Multicore Training, Universitatea Tehnica din Cluj-Napoca, 21.04.2010
- Introduction to High Performance Scientific Computing & Modern Computing Architectures for HPC, UPB, IBM High Performance Scientific Computing Workshop 14-18.06.2010
- HPC@UPB.ro, Universitatea de Vest din Timisoara, 1st Workshop or RO-eIRG 10.07.2010
- Research Results in the OCR Project and Ongoing HPC Projects at UPB, CEEMEA Blue Gene Research Collaboration and Community Building Workshop, 25.10.2010
- Evaluarea Soluțiilor Grid Utilizând Aplicații Intensiv Computaționale, Seminar – Infrastructura de procesare, stocare și conectivitate a centrului, 14.04.2011, Bucuresti, Romania

- Computer Science & Higher Education @ UPB & RWTH-Aachen, Workshop on Education by Research and Competition, UPB, Bucuresti, Romania, 20.04.2011
- High Performance Computing Applications @ cs.pub.ro, Intel Workshop 7.10.2011.
- HPC Activities at University Politehnica of Bucharest, November 29-30 2011, Bucharest, Romania, RO-LCG 2011 Workshop.
- High Performance Scientific Computing in Romanian Universities, IBM Smarter Computing Forum 02.2012
- High Performance Scientific Computing vs. Exascale: The Software Gap, IBM Academic Days for Universities in Romania 2013, HPC Solutions for Big Data Applications and Complex Research Projects, 21-22.03.2013."
- High Performance Scientific Computing in Romanian Universities, HEPTEch Industry Open Innovation Forum, 8.10.2013, IFIN-HH – Magurele, Romania.
Chair and member in Program Committee for national / international scientific events:
- Scientific reviewer – Scientific Bulletin, University Politehnica of Bucharest, Seria C.
- Organizer and member in the scientific program committee IEEE CSCS19, 18th International Conference on Control Systems and Computer Science, 29-31 May 2013, Bucharest, Romania.
- Organizer and member in the scientific program committee First Workshop on High Performance Computing with application in environment, Timisoara, Romania, 26.09.2011.
- Organizer and member in the scientific program committee Workshop on High Performance Computing Services, Timisoara, Romania, 27-29.09.2012.
- Organizer and member in the scientific program committee Workshop on High Performance Computing Services, Timisoara, Romania, 25-26.09.2013.
- Organizer and member in the scientific program committee: HiPerGRID 2008 - International Workshop on High Performance Grid Middleware.
- Organizer and member in the scientific program committee HiPerGRID 2009 - International Workshop on High Performance Grid Middleware.
- Scientific program committee CSCS17, 17th International Conference on Control Systems and Computer Science, 26-29 May 2009, Bucharest, Romania
- Scientific program committee CSCS18, 18th International Conference on Control Systems and Computer Science, 24-27 May 2011, Bucharest, Romania
- Organizer of IBM High Performance Scientific Computing Workshop 14-18.06.2010

Personal competences and skills

Mother tongue

Romanian

Foreign languages

Auto-evaluation

European Level

English

German

French

Understanding				Speaking				Writing	
Listening		Reading		Conversation		Oral presentation		Written presentation	
C2	Excellent	C2	Excellent	C2	Excellent	C2	Excellent	C2	Excellent
C1	Very Good	C1	Very Good	C1	Very Good	B2	Very Good	B2	Good
B2	Good	B2	Good	A2	Basic	A2	Basic	A2	Good

Organizational skills

I have acquired twelve years of managerial experience with a team of about 12 teaching and research assistants that I am coordinating at a number of lectures and projects. From 2012 I am a member of the Senate of the University Politehnica of Bucharest and was Vice-dean of the Faculty of Automatic Control and Computers from 2012 to 2016. From 2009 I am a member of the Council of the Computer Science Department.

Technical skills

I have considerable experience at fixing bicycles. I am comfortable using and fixing a number of simple home-appliances.

Computer skills

Unix: Java, C/C++, Fortran77 si 90, Matlab, Tecplot, Python, Latex, Maple and SQL.
Windows: C++ Builder, JBuilder, Microsoft Studio, Java and Microsoft Office.
Mac OS: Think C, Think Pascal, MPW and Claris Works.
Parallel Programming: MPI, OpenMP, TotalView, VTune, Assure, Pthreads and Java Threads.

Artistic skills

I like music, modeling, table-top games, and model trains. I read mainly history, philosophy, fantasy and science fiction books. I like to play basketball and tennis, to ski and ride the mountain bike, to climb and swim and, last but not least, to fish.

Driver's license

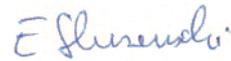
Category B.

Additional Information

Memberships in Professional Associations:

- IEEE – Institute of Electrical and Electronics Engineers
- ACM – Association for Computing Machinery
- SIAM – Society for Industrial and Applied Mathematics
- SRAIT – Societatea Romana de Automatica si Informatica Tehnica
- ARCAS – Asociația Română pentru Promovarea Metodelor Computaționale Avansate în Cercetarea Științifică (founding member and president)
- A&C – Asociația Automatica si Calculatoare (founding member)

23.12.2018



Prof. Dr. Eng. Habil. Emil-Ioan Slușanschi