



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)

Octavian RUSU

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octavian@roedu.net

Nationality

Romanian

Date of birth

13.06.1966

Gender

male

Desired employment / Occupational field

Work experience

Dates

October 1990 – present

Occupation or position held

Lecturer, assistant professor

Main activities and responsibilities

Courses for student: Computer networks, Operation systems, GRID and parallel computing, Electronics for medical physics

Name and address of employer

Faculty of physics, "Alexandru Ioan Cuza University" Blvd. Carol I, nr. 11, Iasi, RO-700506, <http://www.uaic.ro/lasi>, Romania

Type of business or sector

Higher education, scientific research

Dates

June 1996 – present

Occupation or position held

Head of Digital Communication Department

Main activities and responsibilities

Coordination of the planning, operation and maintenance of data and voice communication system for the campus of the University.

Name and address of employer

Digital Communications Department, "Alexandru Ioan Cuza University" Blvd. Carol I, nr. 11, Iasi, RO-700506, Romania, <http://www.dcd.uaic.ro/>

Type of business or sector

Higher education, scientific research

Type of business or sector

Higher education, scientific research

Dates

June 1996 – present

Occupation or position held

Head of Digital Communication Department

Main activities and responsibilities

Coordination of the planning, operation and maintenance of data and voice communication system for the campus of the University.

Name and address of employer	Digital Communications Department, "Alexandru Ioan Cuza University" Blvd. Carol I, nr. 11, Iasi, RO-700506, Romania, http://www.dcd.uaic.ro/
Type of business or sector	Higher education, scientific research
Dates	December 2006 – April 2009
Occupation or position held	General manager
Main activities and responsibilities	Coordination of the development and operation of the Romanian research and education network and of the participation of the Romanian NREN to specific European research projects. Coordination of the RoEduNet2 project: DWDM based on dark fiber national network for research and education in Romania.
Name and address of employer	Office for Administration and operation of data communication Infrastructure "RoEduNet", Splaiul Independenței, nr 313, Bucharest, Sector 6, RO- 060032, http://www.roedu.net/
Type of business or sector	Data communication for education and research Scientific research in the field of data communication
Dates	June 1998 – December 2006
Occupation or position held	Regional manager
Main activities and responsibilities	Coordination of the development and operation of the Romanian research and education network for Nord-East part of Romania
Name and address of employer	Office for Administration and operation of data communication Infrastructure "RoEduNet", Iasi branch, Blvd. Carol I, nr. 11, camera 169, Iasi, RO-700506
Type of business or sector	Data communication for education and research, regional level Scientific research in the field of data communication
Dates	September 1989 – September 1990
Occupation or position held	Teacher
Main activities and responsibilities	Physics teacher secondary/high school
Name and address of employer	School no. 3, Bacau, RO
Type of business or sector	Secondary and high school education

Education and training

Dates	1994 – 2000
Title of qualification awarded	PhD in physics
Principal subjects/occupational skills covered	Specialty: Electronic physics Thesis title: Contribution to study of the strip line circuits in microwave band.
Name and type of organisation providing education and training	"Alexandru Ioan Cuza University" Blvd. Carol I, nr. 11, Iasi, RO-700506, http://www.uaic.ro/Iasi , Romania
Level in national or international classification	Ph.D.
Dates	1985 – 1989
Title of qualification awarded	Bachelor degree in physics
Principal subjects/occupational skills covered	Specialty: Electricity and electronic physics
Name and type of organisation providing education and training	"Alexandru Ioan Cuza University" Blvd. Carol I, nr. 11, Iasi, RO-700506, http://www.uaic.ro/Iasi , Romania
Level in national or international classification	BSc. D.: 9,36 (max 10)
Dates	1980 – 1984
Title of qualification awarded	Baccalaureate
Principal subjects/occupational skills covered	Specialty: steersman
Name and type of organisation providing education and training	High School "Navrom", Blvd. 1 Mai, nr. 101, Constanta, RO-000105

Level in national or international classification

Baccalaureate.

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient User	C2	Proficient User	C1	Proficient User	C1	Proficient User	B2	Independent User
A2	Basic User	B1	Independent Use	A2	Basic User	A2	Basic User	A2	Basic User

Social skills and competences

Team spirit, capacity for adapting in multicultural teams gained in participation to international scientific projects

Organisational skills and competences

Leadership – manager at the national and regional level
Very good capacity for coordination of multiple activities: coordination of projects for communication infrastructures, coordination of scientific research projects

Technical skills and competences

25 Brainbench certification in the field of data communications, Internet and computers (examples: Internet Industry Knowledge, Master Computer Industry Knowledge, Master Computer Fundamentals, Master Apache 1.3.12 Administration, Master TCP/IP Administration, Network Technical Support, Master Computer Electronics, MS Word Power User, Unix Administration, Master Computer Technical Support, Internet Security Specialist, High IT Aptitude, Linux Administrator)

Driving licence

B

Additional information

Evaluator ICT-2011-8 Future Networks :: FP7-ICT-2011-8 – ICT – Information and Communication Technologies (Jan – March 2012)
Evaluator ICT-2011-9 Objective 10.3 - International Cooperation :: FP7-ICT-2011-9 – ICT – Information and Communication Technologies (April – June 2012)
Coordinator CEENGINE – FP7, grant agreement 261517
IEEE Computer Society and IEEE Communications Society member
Member of NREN PC – National Research and Education Network Policy Committee for GN2 and GN3
Member e-Infrastructure Reflection Group (din 2010), <http://www.e-irg.eu/>
Member of TERENA GA – Trans European Research and Education Networking Association (din 2006), <http://www.terena.org/>
Member of the management committee CEENET – Central and Eastern European Networking Association (din 2006), <http://www.ceenet.org/>
Member of the supervisory committee for SA1 GN3
Director or responsible for Romania for the following research projects GN3, GN2, CEENGINE, SEEFire, SEEREN, SEEREN2 financed within FP6 and FP7, three NIG – Network Infrastructure Grant, financed by NATO Science for Peace)
General chair for International Conference “Networking in Education and Research” edition 2007, 2008, 2009, 2011 (Technical sponsor IEEE Computer Society)
Invited professor Carnegie Mellon University Pittsburgh, USA, 2001
Over 35 scientific papers (Annex 1)
Main Contact and Instructor at Regional Cisco Networking Academy OAO RoEduNet Iasi: coordination of 11 local Cisco Academies
Founding member of ARCAS society
Manager of the radio amateur club YO8KOM

Annexes

Annex 1 – Scientific papers

Annex 1 – Scientific papers

1. Chagas, Nuno; Manolache, Florin B.; Rusu, Octavian “*Exploring Practices and Systems for Remote Teaching*”, Proceedings of the 19th RoEduNet Conference - Networking in Education and Research (RoEduNet),
2. Manolache, Florin B.; Rusu, Octavian – „*Double Standard Method for Designing Adaptive Backup Systems*”, Proceedings of the 18th RoEduNet Conference - Networking in Education and Research (RoEduNet)
3. Manolache, Florin B.; Evans, Joseph; Rusu, Octavian „*Mycros - An Automated Enterprise IT Management System Based on LDAP*”, Proceedings of the 17th RoEduNet Conference - Networking in Education and Research (RoEduNet),
4. Manolache, Florin B.; Pitzer, Nathan; Yang, Hanyu; Bian, Tong; Rusu, Octavian “*Preemptive Infrastructure Maintenance Through Adaptive Pattern Search*”, Proceedings of the 16th RoEduNet Conference - Networking in Education and Research (RoEduNet), pp 282-286
5. Bogatencov, P.; Rusu, O.; Secieru, G.; Rosca, P., “*RENAM - RoEduNet - GEANT gateway: approaches for connectivity development*”, Proceedings of the 15th RoEduNet Conference - Networking in Education and Research
6. Manolache, Florin B.; Rusu, Octavian, “*General Valuation Framework for Artificial Intelligence Models*”, Proceedings of the 15th RoEduNet Conference - Networking in Education and Research
7. Pinzaru, Ciprian; Vraciu, Valeriu; Rusu, Octavian, “*Software and network issues in RO-16-UAIC site*”, Proceedings 8th Romania Tier 2 Federation Grid, Cloud & High Performance Computing in Science (RO-LCG)
8. Manolache, Florin B.; Li, Yifan; Rusu, Octavian, “*Automated User Documentation System for Android*”, Proceedings of the 14th RoEduNet International Conference on Networking in Education and Research (RoEduNet NER)
9. Florin Manolache, Qingping Hou, Octavian Rusu, “*Analysis and Prevention of Network Password Guessing Attacks in an Enterprise Environment*”, Proceedings of 13th RoEduNet IEEE International Conference, Chisinau, Moldova 11-13 September 2014, pg 40-46
10. Valeriu Vraciu, Octavian Rusu, Paul Gasner, Mihai Barbulescu, “*100 Gbps Alien wavelength installation in a production DWDM network*”, Proceedings of 13th RoEduNet IEEE International Conference, Chisinau, Moldova 11-13 September 2014, pg. 69-72
11. Florin Bogdan Manolache, Qingping Hou, Octavian Rusu, “*Open Source Adaptive Backup Extensions for Enterprise Environment*”, Proceedings of 12th RoEduNet IEEE International Conference, Constanța, Romania 26-28 September 2013, pg. 40-45
12. Ciprian Pinzaru, Valeriu Vraciu, Paul Gasner, Manuel Subredu, Octavian Rusu, “*Monitoring LHCONE traffic in Romanian grid sites*”, Proceedings of 12th RoEduNet IEEE International Conference, Constanța, Romania 26-28 September 2013, pg 133-137
13. Andries A., Bogatencov P, Secieru G. O. Rusu, „*Regional Cross-Border Fiber Connections implementation in Eastern Europe*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sinaia, Romania 17-19 January 2013, pg. 49-55
14. Rusu O, Săndulescu V., Halcu I., Neculoiu G., Grigoriu O., Marinescu M., Marinescu V. “*Converting unstructured and semi-structured data into knowledge*” Proceedings of RoEduNet International Conference - Networking in Education and Research, Sinaia, Romania 17-19 January 2013, pg. 82-87
15. Manolache F.I.B., Rusu O. “*Multimedia Remote Collaboration System*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sinaia, Romania 17-19 January 2013, pg. 176-181
16. Pinzaru C., Rusu O., Stoleriu L., Stancu Al. „*Performance Analysis and Optimisation of a Parallel Numerical Code for Micromagnetic Calculus*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Iasi, June 23-25, 2011, Romania, pg . 73-77
17. Manolache F.B., Rusu O., „*Directory Cache Technique for Efficient User Management*” , Proceedings of RoEduNet International Conference - Networking in Education and Research, Iasi, June 23-25, 2011, Romania, pg . 104-108
18. Rusu O., Marinescu M., Marinescu V., Grigoriu R.O., Neculoiu G., „*GRID Technologies in the Educational System*” , Proceedings of RoEduNet International Conference - Networking in Education and Research, Iasi, June 23-25, 2011, Romania, pg . 222-225
19. Andries A., Bogatencov P., Secieru G., Peplow E., Rusu O., „*CBF Solution Implementation for Linking NREN of Moldova to GEANT*” , Proceedings of RoEduNet International Conference - Networking in Education and Research, Iasi, June 23-25, 2011, Romania, pg . 65-68

20. Manolache F.B., Rusu O., Dumitrasc A., „*Filesystem Performance Testing for Parallel Clusters*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sibiu, June 24-26, 2010, Romania, pg . 192-195
21. Rusu O., Vraciu V., „*IS-IS metric optimization*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sibiu, June 24-26, 2010, Romania, pg . 282-286
22. Rusu O, Vraciu V., Subredu M., „*Multidomain network monitoring – a comparison between PerfSONAR and MonaLISA*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Galati, December 3-4, 2009, Romania, pg . 13-17
23. Pinzaru C., Rusu O., Subredu M., „*Implementation of gLite in University Grid Environment*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Galati, December 3-4, 2009, Romania, pg . 63-67
24. Manolache F.B., Rusu O., Adusumilli P., „*Spam Handling in Heterogeneous Environments*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Galati, December 3-4, 2009, Romania, pg . 68-71
25. Creanga F., Balanici A., Rusu O., Subredu M., „*Integrating oIP services into existing PBX infrastructure*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Cluj Napoca, August 29-30, 2008, Romania, pg . 25-29
26. Manolache F.B., Rusu O., Dumitrasc A., „*Network Storage Solutions for Computer Clusters*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Cluj Napoca, August 29-30, 2007, Romania, pg . 79-84
27. Manolache F.B., Rusu O., „*Backup Management on Large Network*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Craiova, November 23-24, 2007, Romania, pg . 70-73
28. Subredu M., Rusu O., Vraciu V., Manolache F.B., „*Case Study – An Open Source solution for network user authentication*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Craiova, November 23-24, 2007, Romania, pg . 127-130
29. Andries A., Bogatencov P., Peplow E., Rusu O., Secieru G., Sidorencu V., „*RENAM- RoEduNet gateway upgrading approaches*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Craiova, November 23-24, 2007, Romania, pg . 148-151
30. Peplow E., Andrei E., Rusu O., Bogatencov P., Secieru G., Sidorencu V., „*NATO NIG Project of RENAM- RoEduNet Fiber Optic Channel*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sibiu, June 1-3, 2006, Romania, pg . 47-50
31. Gasner P, Avădănei O.G., Balmuș S.B., Rusu O., Sandu D.D., „*The Propagation Simulation of an Impulse Voltage Using WCIP Method*”, Tensor N.S Vol. 67, No. 3 (2006), pg: 270-276
32. Rusu O., Vraciu V., Șubredu M., „*RoEduNet – Optical-based communications network for Romanian Education and Research*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sovata, May 20-22, 2005, Romania
33. Manolache, F.B., Rusu O., Șubredu M., „*A Slashdot Effect Analysis*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sovata, May 20-22, 2005, Romania
34. Rusu O., Gasner P., Manolache F.B. „*Comparative study of wired and wireless networks capability*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sovata, May 20-22, 2005, Romania
35. Manolache F.B., Rusu O., Șubredu M., „*DOS Attack Using Automated Vulnerability Scanning Software*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sovata, May 20-22, 2005, Romania
36. Șubredu M., Rusu O., Manolache F.B., „*Zazu – a NetFlow processing framework*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Sovata, May 20-22, 2005, Romania
37. Rusu O. Manolache, F.B., „*Network Management Framework. A Distributed Virtual NOC Architecture*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Iasi, June 5-6, 2003, Romania, pp. 221-227;
38. Subredu, M, Rusu O, Vraciu V, „*A Practical Solution to Detect DoS/DDoS Attacks*”, Proceedings of RoEduNet International Conference - Networking in Education and Research, Iasi, June 5-6, 2003, Romania, pp. 261-265;
39. Rusu O., V. Vraciu, M. Conovici, „*IPv6 services in Romanian Education Network*”, Proceedings 1st RoEduNet Conference – Networking for Education and Research, 18-19 april 2002, Cluj-Napoca, Romania, pp. 136-142;

40. Rusu O, Manolache F.B., Vraciu V., "Guide to a Budget-Savvy Bipolar Metropolitan Area Network", Proceedings 1st RoEduNet Conference – Networking for Education and Research, 18-19 april 2002, Cluj-Napoca, Romania, pp. 143-148;
41. Rusu O., Subredu M., Spirlea I., "Implementing Real Time Packet Forwarding Policies using HTB", Proceedings 1st RoEduNet Conference – Networking for Education and Research, 18-19 april 2002, Cluj-Napoca, Romania, pp. 126-135;
42. Rusu O., Creanga F., Balanici A., "Considerations about Horizontal Cabling in Data and Voice Networks", Proceedings 1st RoEduNet Conference – Networking for Education and Research, 18-19 april 2002, Cluj-Napoca, Romania, pp. 149-156;
43. O. Rusu, D.D.Sandu, M.G. Serban, "On the Properties of Rhomboidal Microstrip Resonators", Tensor N.S., Japan, 1997;
44. Rusu O., Sandu D.D., Gasner P., "Microstrip Rhomboidal Structures. Numerical Modelling and Applications", vol. of ANTHEM'98 Conference, Ottawa, Ontario, Canada, 1998;
45. O.Rusu, D.D. Sandu, M.G. Serban, "Power Divider Combiner Microstrip Circuit Using Rhomboidal Resonator", OHD 97, vol 14, Clermont-Ferrand, 1997, pp. 103-106;
46. O.Rusu, D.D. Sandu, M.G. Serban, "Coupling Between Two Microwave Horn Antennas; a Gaussian Beam Method Approach", OHD 97, Annale Scientifique de l'Université Blaise Pascal, vol. 103, fascicule 34, 1997, pp. 103-106;
47. M. G. Şerban, D. D. Sandu, O. Rusu, P. Gasner "Free space measurements of dielectric permittivity using a quasi-optical method", Annale Scientifique de l'Université Blaise Pascal, vol. 103, fascicule 34, OHD'97, 1997, pp. 164-167
48. M.G. Serban, D.D. Sandu, O. Rusu, P. Gasner, "Error analysis for free space dielectric permittivity measurement methods", "IEEE Instrumentation & Measurement Technology Conference", May, 19-21, 1997, pp. 185-188;
49. D.D. Sandu, O. Rusu, P. Gasner, "Gaussian Beam modes; application to free space measurement of dielectric permittivity", M.G. Serban, vol. of "IEEE Instrumentation & Measurement Technology Conference", May, 19-21, 1997, Ottawa, Canada, pp181-184;
50. D.D. Sandu, O. Rusu, P. Gasner, M.G. Serban, "Improved technique for measurement of permittivity in free space using a gaussian approach", Int. Microwave Power Institute", Canda July, 12-16, 1997, pp 311-314;
51. M.G. Serban, D.D. Sandu, O. Rusu, P. Gasner, "A numerical study of errors in free space measurement methods", vol. of. "32nd Annual Microwave Power Institute", July, 12-16, 1997, Ottawa, Canada, pp. 307- 310;
52. M.G. Serban, D.D. Sandu, O. Rusu, P. Gasner, "Use of gaussian beams techniques for dielectric permittivity measurements in free space", vol of "IEEE Antenna and Propagation Symposium & URSI North American Radio Science Meeting", July, 13-16, 1997, pp. 421-424;
53. O. Rusu, D.D. Sandu, M.G. Serban, "Selective Power Divider-Combiner Microstrip Circuit Using an Elliptic Disk", 13-rd Bienal Colloquium Hertzian Optics and Dielectrics, Zaragosa OHD'95, pp. 363-369, 1995;
54. D.D. Sandu, M. G. Serban, O. Rusu, P. Gasner, "A quasy-optical Method for measuring of the complex dielectric permittivity of materials", Tensor N.S., Japan, vol. 59, 1998,pp.20-26;
55. Fl.B. Manolache, S. Costiner, D.D. Sandu, O. Rusu, M.G. Serban, "New Microwave Selective Devices Using Localised Modes in Resonant Cavities", 13-rd Bienal Colloquium Hertzian Optics and Dielectrics, Zaragosa OHD'95, pp. 362-369, 1995;