

## PERSONAL INFORMATION

## Iustin-Alexandru Ivanciu



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## POSITION

## Assistant

## WORK EXPERIENCE

01/11/2016–Present

Research Assistant in ID P\_40\_333 " URBIVEL - Advanced Technologies for Intelligent Urban Electric Vehicles", 2016-2017

Technical University of Cluj-Napoca

- Tunnelling networks through connection-oriented stateful firewalls
- Seamless handover and load balancing
- Unified Communications in Internet
- Advanced Design of Computer Networks
- Software developmeny

01/02/2015–Present

Research Assistant in „CHIST-ERA DIONASYS “Declarative and Interoperable Overlay Networks, Applications to Systems of Systems”, 2015-2017

Technical University of Cluj-Napoca

- Active measurements of the Available Transfer Rate and One-Way Delay
- Routing in cloud-based networks
- Software-Defined Networking
- Systems of systems composability
- Tunnelling networks through connection-oriented stateful firewalls

01/10/2014–Present

Teaching Assistant in the Communications Department

Technical University of Cluj-Napoca

- Teaching and research activities

01/11/2012–01/07/2014

Research Assistant in FP7-SME-2012-1/315161 “UCONNECT – Implementation of Ubiquitous Connectivity for Public Transport”, 2012-2014

Technical University of Cluj-Napoca

- Tunnelling networks through connection-oriented stateful firewalls
- Active measurements of the Available Transfer Rate
- Seamless handover and load balancing
- Unified Communications in Internet
- Advanced Design of Computer Networks
- Software development

## EDUCATION AND TRAINING

- 01/10/2013–10/12/2016    **PhD in Telecommunications with Thesis " Active Measurements for Routing in Cloud-Based Networks"**  
 Technical University of Cluj-Napoca
- 01/10/2013–01/08/2014    **Cisco Networking Academy Courses, CCNA Routing and Switching**  
 Technical University of Cluj-Napoca

  - Introduction to Networks
  - Routing and Switching Essentials
  - Scaling Networks
  - Connecting Networks
- 15/02/2013–15/05/2013    **Erasmus mobility grant for preparing MSc thesis**  
 Universitat Politècnica de Catalunya · BarcelonaTech, Barcelona (Spain)

  - Active measurements of the Available Transfer Rate
- 01/10/2011–15/07/2013    **MSc in Telecommunications with thesis "Available Transfer Rate Active Measurement Tool for Wired and Wireless Networks"**  
 Technical University of Cluj-Napoca

  - Unified Internet Communications
  - Advanced Design of Computer Networks
  - Microwave Antennae
  - Wireless Systems, 2G, 3G, 4G evolution
- 01/10/2007–15/07/2011    **Telecommunications Engineer with BSc thesis "A Software Tool for the Management of Information Objects Regarding Video Content Data"**  
 Technical University of Cluj-Napoca

  - Advanced Calculus and Mathematical Analysis
  - High-level and assembling language programming
  - Microprocessors
  - Design, physical building, testing and debugging of electronic circuits
  - Computer Networks
  - Telephone services and Radio-communications
- 15/09/2003–15/06/2007    **High school Graduate**  
 "Andrei Mureşanu" National High school, Dej (Romania)

  - Mathematics
  - Computer Science
  - Physics

**PERSONAL SKILLS**

Mother tongue(s)    Romanian

Other language(s)

	UNDERSTANDING	SPEAKING	WRITING

	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

**Communication skills**

- Good communication skills developed by working with students from different social/cultural backgrounds
- Team spirit
- Creativity

**Organisational / managerial skills**

- Leadership
- Neat
- Organized
- Efficient
- Trustworthy

**Job-related skills**

- Active Measurements of the Available Transfer Rate and One-Way Delay
- Cloud Computing
- Configuration and design of computer networks
- Advanced knowledge of the TCP/IP protocol stack
- IP-based telephony
- Database applications
- Android-based applications

**Digital competence**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

- C/C++
- Java
- SQL
- Oracle
- Matlab
- Microsoft Office Suite

**ADDITIONAL INFORMATION**

**ISI Journals** A.C. Hosu, Z.I. Kiss, I.A. Ivanciu, M. Varga, Zs.A. Polgar, "Integrated ubiquitous connectivity and centralised information platform for intelligent public transportation systems", *IET Intelligent Transport Systems*, ISSN 1751-956X, Vol. 9, No. 6, 2015, pp. 573-581

**Indexed Database Journals** 1. A. Taut, I.A. Ivanciu, E. Luchian, and V. Dobrota, "Active Measurement of the Latency in Cloud-

Based Networks", *ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications*, ISSN 1221-6542, Vol.58, No.1, 2017, pp.22-30

2. E. Luchian, I.A. Ivanciu, A.B. Rus, G. Lazar, and V. Dobrota, "Migration of an SDN-Based Testbed into a Private Cloud: An OpenStack Approach", *ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications*, ISSN 1221-6542, Vol. 57, No. 1, 2016, pp. 1-10

3. I.A. Ivanciu, A.B. Rus, and V. Dobrota, "A Tunnel-Based Solution for Seamless Vertical Handover and Load Balancing", *ACTA TECHNICA NAPOCENSIS, Electronics and Telecommunications*, ISSN 1221-6542, Vol. 55, No. 3, 2014, pp. 20-26

#### ISI Proceedings Conferences

1. E. Luchian, C. Filip, A.B. Rus, I.A. Ivanciu, and V. Dobrota, "Automation of the Infrastructure and Services for an OpenStack Deployment using Chef Tool ", *15th RoEduNet Conference: Networking in Education and Research*, University Politehnica Bucharest, September 7-9, 2016, pp. 1-5, ISBN: 978-1-5090-5398-8, Electronic ISSN: 2247-5443, DOI: 10.1109/RoEduNet.2016.7753200

2. F.L. Lupaescu, I.A. Ivanciu, E. Luchian, and V. Dobrota, "A Firewall Application for Performance Evaluation of the Pyretic Controller in Software-Defined Networks", *15th RoEduNet Conference: Networking in Education and Research*, University Politehnica Bucharest, September 7-9, 2016, pp. 17-21, ISBN: 978-1-5090-5398-8, Electronic ISSN: 2247-5443, DOI: 10.1109/RoEduNet.2016.7753202

3. M. Padurariu, B. Rosca, I.A. Ivanciu, E. Luchian, A.B. Rus, and V. Dobrota, "Automatic Control of an OpenFlow-Based Network Using Lua Scripts and SPLAY", *11th International Conference on Communications COMM 2016*, Military Technical Academy, "Politehnica" University of Bucharest, "Electronica 2000" Foundation and IEEE Romania Section, Bucharest, Romania, June 9-11, 2016, pp. 299-302, DOI: 10.1109/ICComm.2016.7528286

4. A. Comsa, I.A. Ivanciu, E. Luchian, V. Dobrota, and K. Steenhaut, "End-to-End Delay Minimization in an Application-Aware Routing for Wireless Sensor Networks", *14th RoEduNet Conference: Networking in Education and Research NER'2015*, Agency ARNIC/ RoEduNet and University of Craiova, Craiova, Romania, September 24-26, 2015, pp. 80-84, Print ISBN: 978-1-4673-8179-6, DOI: 10.1109/RoEduNet.2015.7311832

5. I.A. Ivanciu, A.B. Rus, V. Dobrota, and J. Domingo-Pascual, "Active Measurement of the Available Transfer Rate Used in an Algorithm for Generalized Assignment Problem", *Proceedings of the 11th International Symposium on Electronics and Telecommunications ISETC 2014*, Timisoara, Romania, November 13-14, 2014, Print ISBN: 978-1-4799-7265-4, pp. 147-150

6. I.A. Ivanciu, A.C. Hosu, Z.A. Polgar, and V. Dobrota, "Capacity and Available Transfer Rate Evaluation for Wireless Links", *10th International Conference on Communications COMM 2014*, Military Technical Academy, "Politehnica" University of Bucharest, "Electronica 2000" Foundation and IEEE Romania Section, Bucharest, Romania, May 29-31, 2014, pp. 1-4, DOI:10.1109/ICComm.2014.6866693

7. F. Stoicuta, I.A. Ivanciu, E. Minzat, A.B. Rus, and V. Dobrota, "An OpenNetInf-Based Cloud Computing Solution for Cross-Layer QoS: Monitoring Part Using iOS Terminals", *Proceedings of the 10th International Symposium on Electronics and Telecommunications ISETC 2012*, Timisoara, Romania, November 15-16, 2012, Print ISBN: 978-1-4673-1177-9, DOI: 10.1109/ISETC.2012.6408102, pp. 167-170

8. I.A. Ivanciu, F. Stoicuta, M. Anghel, A.B. Rus, and V. Dobrota, "Enhancement of Information Object Management Tool about Audio-Video/ Network Status/ QoS Content in OpenNetInf", *35th International Conference on Telecommunications and Signal Processing TSP 2012*, July 3-4, 2012, Prague, Czech Republic, ISBN: 978-1-4673-1116-8, Print ISBN: 978-1-4673-1117-5, pp. 111-115

#### Indexed Database Proceedings Conferences

1. R. Carvajal Gomez, E. Luchian, I.A. Ivanciu, A. Taut, V. Dobrota, and E. Riviere, "On the Impact of Indirect WAN Routing on Geo-Replicated Storage", *23rd IEEE International Symposium on Local and Metropolitan Area Networks LANMAN 2017*, Osaka, Japan, 12-14 June 2017

2. I.A. Ivanciu, E. Luchian, E. Riviere, and V. Dobrota, "OpenStack-based Clouds as Holons: A Functional Perspective", *22nd IEEE International Symposium on Local and Metropolitan Area Networks LANMAN 2016*, Rome, Italy, June 13-15, 2016, Electronic ISSN: 1944-0375, DOI: 10.1109/LANMAN.2016.7548849

- List of Projects
1. C. Martis (coordinator), V. Dobrota, I.A. Ivanciu, E. Luchian (included in list of members), ID P\_40\_333 "URBIVEL - Advanced Technologies for Intelligent Urban Electric Vehicles", 2016-2017
  2. V. Dobrota (coordinator for TUCN), A.B. Rus, I.A. Ivanciu, G. Lazar, E. Luchian (members) et al., „CHIST-ERA DIONASYS "Declarative and Interoperable Overlay Networks, Applications to Systems of Systems", 2015-2017
  3. C. Munteanu (coordinator for TUCN), I.A. Ivanciu (PhD scholarship) Interuniversity Partnership for Engineering Excellence "PARTING", 2014-2016
  4. Z. Polgar (coordinator for TUCN), V. Dobrota, M. Varga, A.B. Rus, G. Lazar, I.A. Ivanciu, Z. Kiss, A. Hosu (members), FP7-SME-2012-1/315161 "UCONNECT – Implementation of Ubiquitous Connectivity for Public Transport", 2012-2014

