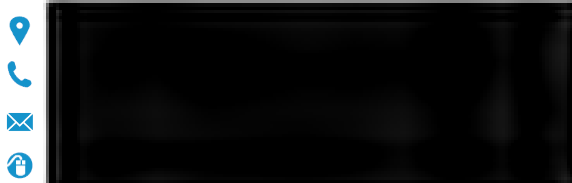


## PERSONAL INFORMATION

Ionut Manuel Anghel



## JOB APPLIED FOR

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department  
Professor Position 15

## WORK EXPERIENCE

2020-present day

**Habilitated Associate Professor**

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department

- Didactic activities for Distributed Systems, Developing Web Applications, Cloud Services and Applications, Large Scale Data Processing
- Research activities in International/National Research Projects of the Distributed Systems Research Laboratory

**Business or sector** Education and Research

2018-2020

**Associate Professor**

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department

- Didactic activities for Distributed Systems, Developing Web Applications, Service Oriented Distributed Systems
- Research activities in International/National Research Projects of the Distributed Systems Research Laboratory

**Business or sector** Education and Research

2014-2018

**Lecturer**

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department

- Didactic activities for Distributed Systems, Developing Web Applications
- Research activities in International/National Research Projects of the Distributed Systems Research Laboratory

**Business or sector** Education and Research

2013-2014

**Assistant professor**

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department

- Didactic activities for Programming Techniques, Distributed Systems, Developing Web Applications
- Research activities in International/National Research Projects of the Distributed Systems Research Laboratory

**Business or sector** Education and Research

2007-2013 **Graduate assistant**

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department

- Didactic activities for Programming Techniques, Distributed Systems, Software Design, Developing Web Applications
- Research activities in International/National Research Projects of the Distributed Systems Research Laboratory

Business or sector Education and Research

2006-2007 **Research Assistant**

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department, Distributed Systems Research Laboratory

- Research activities in National Research Projects of the Distributed Systems Research Laboratory
- Didactic activities for Programming Techniques, Distributed Systems

Business or sector Education and Research

**EDUCAȚIE ȘI FORMARE**

2008-2012 **PhD in Information and communications technology**

EQF Level 8

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department

Thesis title: Autonomic computing techniques for pervasive systems and energy efficient data centres

2006-2008 **MSc in Distributed Systems and Computer Networks**

EQF Level 7

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department

Competences: Advanced Distributed Systems, Advanced Artificial Intelligence, Business Process Management, SOA Services, Project Management and Software Engineering, Advanced Computer Networks

2001-2006 **BS in Computer Science**

EQF Level 6

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department

Competences: Distributed Systems, Programming Techniques, Artificial Intelligence, Software Engineering, Databases Design, Operating Systems, Computer Networks

Mother tongue(s) Romana

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	Reading
English	C2: Proficient user	C1: Proficient user	C1: Proficient user	C1: Proficient user	C1: Proficient user
Italian	A1: Basic user	A1: Basic user	A1: Basic user	A1: Basic user	A1: Basic user

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**PERSONAL SKILLS**

**Communication skills** Excellent communication skills gained from:

- 14 years of experience in teaching
- 6 years of experience as course holder
- 15 years of research experience as a member of the DSRL research team including participation in conferences, progress meetings and project evaluation meetings

**Organisational / managerial skills**

- Research project manager for 6 research projects
- Member of the conference organizing committees
- Coordinator of practice programs for students
- Diploma / Master Thesis Coordinator
- Member of the admission committee
- Writing of multiple European project proposals
- PhD student's coordinator
- Member of the Faculty of Automation and Computer Science Board
- Student mentor
- WoS journals editor

**Job-related skills** Didactic experience / skills:

- Co-author for 6 academic books:

Research experience / skills:

- Member in 22 National and International Research Grants (6 as project manager)
- Over 100 international databases indexed publications

**Computer Science Skills** Design and development of:

- OOP and web applications
- Distributed applications
- Distributed databases
- Blockchain
- Big data applications

**Driving licence** Category:

- B

## ADDITIONAL INFORMATION

### 10 Representative Publications

1. Claudia Antal, Tudor Cioara, Marcel Antal, Vlad Mihailescu, Dan Mitrea, Ionut Anghel, Ioan Salomie, Giuseppe Raveduto, Massimo Bertoncini, Vincenzo Croce, Tommaso Bragatto, Federico Carere, Francesco Bellesini, Blockchain based decentralized local energy flexibility market, **Energy Reports**, Volume 7, 2021, Pages 5269-5288, ISSN 2352-4847 **IF:6.87 Q1**
2. T. Cioara, M. Antal, V. T. Mihailescu, C. D. Antal, I. M. Anghel and D. Mitrea, "Blockchain-Based Decentralized Virtual Power Plants of Small Prosumers," in **IEEE Access**, vol. 9, pp. 29490-29504, 2021 **IF:3.367 Q2**
3. Antal, M.; Cristea, A.-A.; Pădurean, V.-A.; Cioara, T.; Anghel, I.; Antal, C.; Salomie, I.; Saintherant, N. Heating Homes with Servers: Workload Scheduling for Heat Reuse in Distributed Data Centers. **Sensors** 2021, 21, 2879. **IF:3.576 Q1**
4. Anghel, I.; Cioara, T.; Moldovan, D.; Antal, M.; Pop, C.D.; Salomie, I.; Pop, C.B.; Chifu, V.R. Smart Environments and Social Robots for Age-Friendly Integrated Care Services. **Int. J. Environ. Res. Public Health** 2020, 17, 3801. **IF: 3.39 Q1**
5. Marcel Antal, Claudia Pop, Tudor Cioara, Ionut Anghel, Ioan Salomie, Florin Pop, A system of systems approach for data centers optimization and integration into smart energy grids, **Future Generation Computer Systems**, April 2020, ISSN 0167-739X. **IF: 7.187 Q1**
6. Tudor Cioara, Ionut Anghel, Ioan Salomie, Marcel Antal, Claudia Pop, Massimo Bertoncini, Diego Amone, Florin Pop, Exploiting data centres energy flexibility in smart cities: Business scenarios, **Information Sciences**, 2019, ISSN 0020-0255 **IF: 6.795 Q1**
7. Marcel Antal, Claudia Pop, Teodor Petrican, Andreea Valeria Vesa, Tudor Cioara, Ionut Anghel, Ioan Salomie, Ewa Niewiadomska-Szynkiewicz, MoSiCS: Modeling, simulation and optimization of complex systems—A case study on energy efficient datacenters, **Simulation Modelling Practice and Theory**, 2019, ISSN 1569-190X **IF: 3.272 Q1**
8. Claudia Pop, Tudor Cioara, Marcel Antal, Ionut Anghel, Ioan Salomie and Massimo Bertoncini, Blockchain Based Decentralized Management of Demand Response Programs in Smart Energy Grids, **Sensors** 2018, 18(1), 162. **IF:3.576 Q1**

9. Tudor Cioara, Ionut Anghel, Ioan Salomie, Lina Barakat, Simon Miles, Dianne Reidlinger, Adel Taweel, Ciprian Dobre, Florin Pop, Expert system for nutrition care process of older adults, **Future Generation Computer Systems**, Volume 80, March 2018, Pages 368-383, ISSN 0167-739X. **IF:7.187 Q1**
10. Tudor Cioara, Ionut Anghel, Massimo Bertoncini, Ioan Salomie, Diego Arnone, Marzia Mammina, Terpsi Velivassaki, Marcel Antal, Optimized Flexibility Management enacting Data Centres Participation in Smart Demand Response Programs, **Future Generation Computer Systems**, Volume 78, Part 1, January 2018, Pages 330-342. **IF: 7.187 Q1**

Honours and awards

AWARDS:

- Romanian Academy Award "Constantin Budeanu" for 2018, research in the field of "Intelligent solutions for energy ecosystems" awarded in 2020, <https://academiaromana.ro/premiileAR/liste/2018.pdf>

BEST PAPER AWARD for:

- T. Cioara, I. Anghel, I. Salomie, D. Moldovan, G. Copil, A. Kipp, „Energy Aware Dynamic Resource Consolidation Algorithm for Virtualized Service Centers based on Reinforcement Learning”, Proceedings of the 10th International Symposium on Parallel and Distributed Computing, 6-8 July 2011, Cluj-Napoca, Romania, pp. 163-169
- I. Anghel, T. Cioara, I. Salomie, M. Dinsoreanu, A. Rarau, „A Self-Configuring Middleware for Managing Context Awareness”, Proceedings of the International Conference on Wireless Information Networks and Systems, 2009, pp. 131-138

Relevant Research Projects

1. H2020 AAL engAGE: Managing cognitive decline through theatre therapy, Artificial intelligence and social robots driven interventions, Active and Assisted Living Programme 2021, UTCN: 378.000 Euro, **Project Manager**
2. H2020 AAL ReMember-Me: Smart assistant to prevent and detect cognitive decline, promote cognitive function and social inclusion among older adults, H2020 Ambient Assisted Living Joint Programme, <https://www.rememberme-aal.eu/>, UTCN: 211.348 Euro, **Project Manager**
3. H2020 AAL MedGuide: ICT Integrated System for Coordinated Polypharmacy Management in Dementia Patients, AAL 44/2017, H2020 Ambient Assisted Living Joint Programme AAL-2016, <http://medguide-aal.eu/>, UTCN: 199.200 Euro, **Project Manager**
4. H2020 AAL ReMIND: Robotic ePartner for Multitarget Innovative activation of people with Dementia, H2020 Ambient Assisted Living Joint Programme AAL-2017, <https://www.aalremind.eu/>, UTCN: 220.000 Euro, **Project Manager**
5. H2020 AAL H2HCare: Social robot-based solution for elders' Care management and coaching after discharge from Hospital to Home, H2020 AAL, <https://h2hcare-aal.eu/>, UTCN: 378.350 Euro, **member of the research team**
6. H2020 BRIGHT: Boosting DR through increased community-level consumer engagement by combining Data-driven and blockchain technology Tools with social science approaches and multi-value service design, H2020 LC-SC3-EC-3-2020, <https://dsrl.eu/BRIGHT-PP10-2021/>, UTCN: 504.375 Euro, **member of the research team**
7. H2020 CATALYST: Converting DCs in Energy Flexibility Ecosystems, H2020-EE-2016-2017, <http://project-catalyst.eu/>, UTCN: 263.750 Euro, **member of the research team**
8. H2020 eDREAM - enabling new Demand Response Advanced, Market oriented and Secure technologies, solutions and business models, UTCN: 390.000 Euro <http://edream-h2020.eu/>, **member of the research team**

ANNEXES

Complete publications list;

