

# PERSONAL INFORMATION



# Viorica Rozina Chifu

- Str. Constantin Daicovicu, UTCN HUB, nr. 4, Cluj-Napoca, 400020, judetul Cluj, Romania
- 。0264202352 📋
- viorica.chifu@cs.utcluj.ro
- http://users.utcluj.ro/~cviorica/

## WORK EXPERIENCE

## 2015-present day

#### Associate Professor

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

- Didactic activities for Fundamental Programming Techniques, Basic of Object Oriented Programming, e - Business Web Technologies
- Research activities within the research projects of the Distributed Systems Research Laboratory Type or sector of activity: Education and Research

#### 2011-2015 Lecturer

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

- Didactic activities for Fundamental Programming Techniques
- Research activities within the research projects of the Distributed Systems Research Laboratory
  Type or sector of activity: Education and Research

#### 2007-2011 Asistent professor

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

- Didactic activities for Fundamental Programming Techniques
- Research activities within the research projects of the Distributed Systems Research Laboratory Type or sector of activity: Education and Research

#### 2004-2007

## Graduate assistant

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

- Didactic activities for Fundamental Programming Techniques, Software Design, Artificial Intelligence
- Research activities within the research projects of the Distributed Systems Research Laboratory Type or sector of activity: Education and Research

## 2001-2004 Software Developer

#### S.C. Softpeople

- Software developing activities
- Type or sector of activity: Business

## **EDUCATION**

## 2010 PhD diploma in Computer Science

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Computer Science Department Thesis title: "Automatic Web Service Composition"

2001 Bachelor diploma in Computer Science Technical University of Cluj-Napoca, Faculty of Automation and Computer Science

- Master diploma in Physics of oxide materials Babes Bolyai University, Faculty of Physics 1996
- Bachelor diploma in Physics Babes Bolyai University, Faculty of Physics 1995

## PERSONAL SKILLS

Mother tongue Romanian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Oral speaking	
Engleza	B1	B1	B2	B2	B1
	Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages				
Communication skills	<ul> <li>Good communication skills gained from:</li> <li>23 years of experience in teaching out of which 15 years as course holder</li> <li>18 years of experience in research as member in research projects</li> <li>Participation and presentation of scientific papers at conferences both during the doctoral internship and after its completion</li> <li>Participation in progress meetings within the research projects</li> </ul>				
Organizational/ managerial skills	<ul> <li>Member of National and International Grants</li> <li>Coordination of license and master thesis</li> <li>Coordination of the secretary activity within the bachelor and master studies graduation exams</li> <li>Member of the undergraduate admission committee</li> <li>Elaboration of national and international project proposals</li> </ul>				
Research skills	https://orcid.org/0000-0002-5239-9186         Academic visibility:         111 research papers out of which 12 in ISI jurnals ranked Q1 and Q2         8 book chapters, 1 book         Citations: 957 on Google Scholar         Reviewer for Sensors and Applied Sciences Jurnals         Guest editor for Special Issues published in Applied Sciences journal         Member in Program committe at International Conferences         Editor for two special issues of the Applied Sciences Journal.         Review in Sensors, Applied Sciences Journals         Indexes:         Google Scholar: 16, WoS: 10, Scopus: 12				
inDriving license	Category: B				



ADDITIONAL INFORMATION

Publications

ns More than 100 publications out of which the most representative are the following:

- Chifu, VR, Cioara, T, Anitei, CD, Pop, CB, Anghel, I, Toderean, L "A federated learning model with the whale optimization algorithm for renewable energy prediction, COMPUTERS & ELECTRICAL ENGINEERING, Volume123, PartD; DOI10.1016/j.compeleceng.2025.110259, 2025 [ISI JOURNAL IF: 4; Q1]
- L. Toderean, V. R. Chifu, T. Cioara, I. Anghel and C. B. Pop, "Cooperative Games Over Blockchain and Smart Contracts for Self-Sufficient Energy Communities," in *IEEE Access*, vol. 11, pp. 73982-73999, 2023, doi: 10.1109/ACCESS.2023.3296258. 11798 [ISI JOURNAL IF: 3.9; Q2]
- C. B. Pop, T. Cioara, I. Anghel, M. Antal, V. R. Chifu, C. Antal, I. Salomie, *Review of bio-inspired optimization applications in renewable-powered smart grids: Emerging population-based metaheuristics*, Energy Reports, Volume 8, 2022, pp. 11769-11798 [ISI JOURNAL IF: 4.937; Q2]
- V. R. Chifu, C. B. Pop, D. Demjen, R. Socaci, D. Todea, M. Antal, T. Cioara, I. Anghel, C. Antal, *Identifying and Monitoring the Daily Routine of Seniors Living at Home*, Sensors Journal, Volume 22, Issue 3, 2022. [ISI JOURNAL IF:3.847; Q2]
- V. R. Chifu, C. B. Pop, A. M. Rancea, A. Morar, T. Cioara, M. Antal, I. Anghel, *Deep Learning, Mining, and Collaborative Clustering to Identify Flexible Daily Activities Patterns*. Sensors Journal, Volume 22, Issue 13, 2022. [ISI JOURNAL IF:3.847; Q2]
- V. R. Chifu, T. Cioara, C. B. Pop, I. Anghel, D. Demjen, I. Salomie, Identification of Daily Living Recurrent Behavioral Patterns Using Genetic Algorithms for Elderly Care. Applied Sciences, Volume 12, Issue 21, 2022. [ISI JOURNAL IF: 2.838; Q2]
- I. Anghel, T. Cioara, D. Moldovan, M. Antal, C. D. Pop, I. Salomie, C. B. Pop, V. R. Chifu, Smart Environments and Social Robots for Age-Friendly Integrated Care Services. International Journal Of Environmental Research And Public Health, Volume 17, Issue 11, 2020. [ISI JOURNAL IF: 4.614; Q1]
- Automatic composition of semantic web services (2007-2008), Research Project TD-416 2007 Financing institution: National Council of Scientific Research in Higher Education, Buget: 35770 lei, Project Manager.

Al Research activity: Development of Al-based techniques to automatic Web service composition.

 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, Member of the research team.

Al Research activity: Development of Al-based techniques to identify and monitor seniors' daily routine and deviations from it.

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, Member of the research team.

Al Research activity: Development of Al-based techniques for iidentifying the polypharmacy side-effects in daily life activities of elders with dementia.

 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, Member of the research team.

Al Research activity: Developing of intelligent conversational techniques integrated into social robots for cognitive function stimulation of people with Mild Cognitive Impairment (MCI).

 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, Member of the research team.

Al Research activity: Developing of techniques based on game theory and blockchain technology to guarantee energy self-sufficiency within renewable energy communities. Developing of federated learning techniques to predict energy production.

 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, Member of the research team.

Al Research activity: Development of Al-based techniques for scheduling electric vehicles for charging/discharging based on microgrid demand/responses.