Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Hulea Mircea**
Address(es)	
Telephone(s)	
E-mail	mhulea@tuiasi.ro, mircea.hulea@academic.tuiasi.ro
Nationality	Romanian
Date of birth	24.04.1979
Gender	Male

Occupational field   Associate professor

Name of the current employers:	"Gheorghe Asachi" Technical University Iasi, Romania, Faculty of Automatic Control and Computer Science
Main activities and responsibilities:	Teaching the courses on: Performance and Reliability of distributed systems – teaching language: English Advanced techniques for machine learning – Master Fault tolerant systems
Employment date:	02.2019
Type of business or sector:	Teaching

Education and training

Dates	06.2010 – 03.2013
Occupation or position held	Postdoctoral Fellow
Main activities and responsibilities	- Development of bioinspired cognitive - sensorial systems based on analogue neural networks; - Development of biomimmetic sensorial systems based on chaotic circuits - Design of high performance time measuring systems using microcontrollers; - Design systems for analysis of neural networks behaviour and for chaotic circuits operation - Research assistant in two grants where Technical University of Iasi was one of the partners.
Coordinator	Prof. Horia-Nicolai Teodorescu
Name and type of organisation providing education and training	'Gheorghe Asachi' Technical University of Iasi, Faculty of Electronics, Telecommunications and Information Technology Carol I street, no. 11, Iasi, 700506, Romania
Level in national or international classification	High Confidence Rating given by the Romanian Agency for Quality Assurance in Higher Education
Dates	11.2004 – 12.2008
Title of qualification awarded	PhD in Automatic Control
Principal subjects/occupational skills covered	Thesis Title: *Analysis and design of a speaker independent speech recognition system using neural networks.* The main research activities were aimed on: - Studying the neural networks of biological inspiration from theory to hardware implementation - Testing and developing methods suitable for implementation of speech recognition systems using networks of spiking neurons.
PhD Coordinator	Prof. Mihail Voicu
Name and type of organisation providing education and training	Technical University 'Gh. Asachi', Iasi, Faculty of Automatic Control and Computer Engineering

Level in national or international classification	High Confidence Rating given by the Romanian Agency for Quality Assurance in Higher Education
Dates	10.2003 – 07.2004
Title of qualification awarded	Master of Science in Applications of Advanced Computing Architectures
Principal subjects/occupational skills covered	Dissertation title: *Development Board for Vocal Control of Digital Equipment.* This device was designed as a speech recognition module which can be interfaced with any hardware equipment. Principal subjects: Neural Networks, Modern Concepts of Algorithms Designing and Implementation.
Name and type of organisation providing education and training	Technical University 'Gh. Asachi', Iasi, Faculty of Automatic Control and Computer Engineering
Level in national or international classification	High Confidence Rating given by the Romanian Agency for Quality Assurance in Higher Education
Dates	10.1998 – 07.2003
Title of qualification awarded	Bachelor of Science in Computer Science
Principal subjects/occupational skills covered	- Diploma thesis title: *Hardware Device for Vocal Command of the PC* - Principal subjects: Artificial intelligence, Digital Systems Designing, Algorithms Designing, Programming in Assembler
Name and type of organisation providing education and training	Technical University 'Gh. Asachi', Iasi, Faculty of Automatic Control and Computer Engineering
Level in national or international classification	High Confidence Rating given by the Romanian Agency for Quality Assurance in Higher Education

Work experience

Dates	02.2014 – 01.2019
Name of the current employer:	"Gheorghe Asachi" Technical University Iasi, Romania, Faculty of Automatic Control and Computer Engineering
Occupation or position held:	Assistant professor
Main activities and responsibilities:	Teaching the laboratory classes on *Reliability of distributed systems* – teaching language: English Teaching the laboratory classes on *Artificial Intelligence* Teaching the laboratory classes on *Modelling and Simulation*
Name and address of employer:	'Gheorghe Asachi' Technical University of Iasi, Faculty of Automatic Control and Computer Engineering Dimitrie Mangeron street, no. 27, Iasi, 700050, Romania
Type of business or sector:	Teaching
Dates	02.2013 – 07.2013
Name of the current employer:	"Gheorghe Asachi" Technical University Iasi, Romania, Faculty of Automatic Control and Computer Engineering
Occupation or position held:	Teaching Assistant
Main activities and responsibilities:	Teaching the laboratory classes on *Reliability of distributed systems* – teaching language: English Teaching the laboratory classes on *Computing Architectures*
Name and address of employer:	'Gheorghe Asachi' Technical University of Iasi, Faculty of Automatic Control and Computer Engineering Dimitrie Mangeron street, no. 27, Iasi, 700050, Romania
Type of business or sector:	Teaching
Dates	02.2013 – 07.2013
Name of the current employer:	"Alexandru Ioan Cuza" University of Iasi, Romania, Faculty of Computer Science
Occupation or position held	Lecturer (hourly paid)

Main activities and responsibilities:	Teaching the course on *Machine Learning* included in the master programme of the Faculty of Computer Science
Name and address of employer:	'Alexandu Ioan Cuza' University of Iasi, Faculty of Computer Science Carol I Boulevard, no. 22, Iaşi, RO - 700505 Romania

Dates	10.2012 – 02.2013
Name of the current employer:	"Gheorghe Asachi" Technical University Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology
Occupation or position held:	Teaching Assistant (hourly paid)
Main activities and responsibilities:	Teaching the laboratory classes on *Fundamentals of Artificial Intelligence*
Name and address of employer:	'Gheorghe Asachi' Technical University of Iasi, Faculty of Electronics, Telecommunications, and Information Technology Carol I Boulevard, no. 11, Iasi, 700506, Romania
Type of business or sector:	Teaching

Dates	10.2008 – 07.2010
Occupation or position held	Lecturer (hourly paid)
Main activities and responsibilities	- Teaching the course and laboratory classes on *Neural Networks* - Teaching the course for *Applications of Artificial Intelligence*
Name and address of employer	'Gheorghe Asachi' Technical University of Iasi, Faculty of Automatic Control and Computer Science Dimitrie Mangeron street, no. 27, Iasi, 700050, Romania
Type of business or sector	Teaching

Dates	10.2009 – 06.2011
Occupation or position held	Teaching Assistant (hourly paid)
Main activities and responsibilities	- Teaching laboratory classes on *Informatics*
Name and address of employer	University of Agricultural Science and Veterinary Medicine 'Ion Ionescu de la Brad' Mihail Sadoveanu alley, no. 3, Iasi, 700490, Romania
Type of business or sector	Teaching

Personal skills and competences

Mother tongue(s)	**Romanian**
Other language(s)	**English, French**

Foreign languages certificates: Cambridge FCE, grade C, examination year 2003.

Self-assessment	**Understanding**				**Speaking**				**Writing**	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
French	A2	Basic user	B1	Independent User	A1	Basic user	A1	Basic user	A1	Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences	-	Team work:
		- As a postdoctoral fellow I participated to an external research stage at Northumbria University where I worked with a postdoctoral fellow and several PhD students from Northumbria University to develop and test new methods to compensate laser beam scattering due to air turbulence.
		- Also, during a research external stage at the IUT d'Angouleme, University of Poitiers, France I coordinated a team of one PhD student and one undergraduate student for developing a multidisciplinary research project.
		- I worked in various research teams at Faculty of Automatic Control and Computer Science and at Faculty of Electronics, Telecommunications and Information Technology,
		- I participated as the representative of Technical University "Gheorghe Asachi", Iasi at working meetings of NANOPROSPECT national grant;
		- I worked at the research department of the MyTronic-LEDON, Gmbh multinational company from Germany.
	-	Multicultural environment adaptability:
		- During my postdoctoral research stages in United Kingdom and France, as well as, during Erasmus mobility at Northumbria University I interacted and worked with Professors, Postdoctoral fellows and PhD students. This interaction brought me significant success in the performed research and didactic activities.
		- I have participated at SOCORO 2010 summer school in the field of Social and Cognitive Robotics where I was involved in multinational research teams.
		- As PhD student I obtained a Socrates-Erasmus scholarship in the United Kingdom at The University of Sheffield, where I interacted with different people from academic environment.
Organisational skills and competences	-	Good experience in project management gained while working at different projects during my post-doctoral and PhD research as well as during preparing the master thesis.
	-	Sense of organisation gained:
		- As project manager in a grant obtained from CNCSIS Romania through a research programme for PhD Students.
		- Helping in managing the national grant NANOPROSPECT financed by ANCS Romania;
		- Taking part in organizing committee of the 6th European Conference on intelligent Systems and Technologies.
Technical skills and competences	-	Good experience in research gained during my doctoral programme and during my dissertation preparation at the Technical University from Iasi, Romania.
	-	Good experience in microcontroller programming and hardware design. Since I was preparing my diploma paper during last year of graduation studies, I developed many hardware projects independently or in a team.
	-	Good experience in technical command of digital equipment gained as administrator of 3D Visual System at the University of Agricultural Science and Veterinary Medicine from Iasi, Romania.
Computer skills and competences	-	Very good experience in using Altium Designer for prototyping PCB boards
	-	Good experience in programming languages Assembler, MATLAB, C, C++

| **Additional information** | **External mobility** |

- July 7th – 14th , 2019 – Erasmus research mobility at Faculty of Engineering and Environment, at Northumbria University, Newcastle upon Tyne, United Kingdom.

- June 14th – 21st , 2015 – Erasmus+ teaching mobility at Faculty of Engineering and Environment, at Northumbria University, Newcastle upon Tyne, United Kingdom.

- September 21st - 27th , 2015 – Erasmus+ teaching mobility at Faculty of Engineering and Environment, at Northumbria University, Newcastle upon Tyne, United Kingdom.

- September 2011 – November 2011 – Postdoctoral research stage at the School of Computing, Engineering and Information Sciences from the Northumbria University, Newcastle, United Kingdom.

- Mars 2011 – April 2011 – Postdoctoral research stage at the University of Poitiers, IUT d' Angoulême, France.

- Mars 2006 – May 2006 – Erasmus –Socrates scholarship as PhD student at the University of Sheffield, United Kingdom.

Grants

- Electronic spiking neural networks of biological inspiration for the control of anthropomorphic robotic arms.
Grant position: project leader;
Period: 2019 – 2020 (14 months);
- Designing of a System for Speaker Independent Speech Recognition using Networks of Spiking Neurons;
Grant position: project leader;
Period: 2007 – 2008 (12 months);

- Nanotechnology in Romania – prospective study (NANOPROSPECT), grant position: research assistant; period: November 2010 – May 2011.

- Innovative Methods for Echographic Visualization and Investigation for Medical Purposes (MIVIEM), grant position: research assistant; period: January 2012-November 2012.

Main publications

- a book published at the national publishing house,
- a chapter published at Springer,
- 22 papers indexed Web of Science (ISI) that are published in journals and proceedings,
- 20 papers indexed in international databases (BDI).

Awards

- Best paper award for young researchers at ICSTCC2014, Sinaia, Romania.
- Best paper award at CSNDSP2022, Porto, Portugal.
- Special Award din partea Asia Invention Creativity Association, Korea, 2012