



Ioan Radu Peter

Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Ioan Radu Peter**
Address(es) Technical University of Cluj-Napoca, Department of Mathematics, Str. G. Baritiu 25, room 198
Telephone(s) 0040-726-204977
E-mail ioan.radu.peter@math.utcluj.ro
Nationality Romanian
Date of birth 18.11.1968
Gender Male

Occupational field **Research, education**

Work experience

2018-present
Occupation or position held Professor
Main activities and responsibilities Courses: Algebra, Mathematical Models in Pattern Recognition (master and PhD)
Name and address of employer Technical University of Cluj-Napoca, Memorandumului nr 28, Cluj-Napoca, România
Type of business or sector Education and Research
Dates 2006-2018
Occupation or position held Associate Professor
Main activities and responsibilities Courses, Seminars: Algebra, Mathematical Analysis, Mathematical Models in Pattern Recognition (master and PhD)
Name and address of employer Technical University of Cluj-Napoca, Memorandumului nr 28, Cluj-Napoca, România
Type of business or sector Education and Research
Dates 2000-2006
Occupation or position held Lecturer
Main activities and responsibilities Courses, seminars: Algebra, Special Mathematics, Mathematical Analysis
Name and address of employer Technical University of Cluj-Napoca, Memorandumului nr 28, Cluj-Napoca, România
Type of business or sector Education and Research

Dates 1996-2000
Occupation or position held Assistant Professor
Main activities and responsibilities Courses, seminars: Mathematical Analysis, Algebra, Special Mathematics
Name and address of employer Technical University of Cluj-Napoca, Memorandumului nr 28, Cluj-Napoca, România
Type of business or sector Education and Research

Education and training

Dates 1996-2003
Title of qualification awarded PhD in Mathematics, summa cum laude
Principal subjects/occupational skills covered Mathematics, Differential Geometry
Name and type of organisation providing education and training Debrecen University

Dates 1987-1993
Title of qualification awarded Licensed in Mathematics
Principal subjects/occupational skills covered Mathematics
Name and type of organisation providing education and training Babes Bolyai University, Faculty of Mathematics and Informatics

Personal skills and competences

Mother tongue(s)	Romanian				
Other language(s)	English, French, Italian				
Self-assessment	Understanding		Speaking		Writing
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
English	excellent	excellent	excellent	excellent	excellent

(*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

Good Communication capabilities, excellent spoken production and basic work abilities

Social skills and competences

Organisational skills
and competences

Co Principal Investigator:

1. Dynamics Analysis of Parallel Simulations of Biological Neural
2. Microcircuits (DynAPSNeur), HP-SEE Pilot Call
3. Grant 24-565/2002 awarded by Romanian Ministry of Education and Research.
4. Grant 100-565/2003 awarded by Romanian Ministry of Education and Research.

Technical skills and
competences

Mathematics, Differential Geometry, Differential Topology, Pattern Recognition, Machine Learning

Computer skills and
competences

Operating systems: Microsoft Windows, Linux
Other: Latex, Sagemath, R programming

Artistic skills and
competences

Photography

Other skills and
competences

Sport: hiking, skiing, touring ski, mountain bike,

Driving licence

B Category driver license

Additional information

Remarkable results:

1. Fellowship of Romanian Ministry of Education and Research (fellowship at the University of Debrecen), September 10- December 10 1998.
2. Grant 24-565/2002 awarded by Romanian Ministry of Education and Research.
3. Grant 100-565/2003 awarded by Romanian Ministry of Education and Research.
4. NATO postdoctoral fellowship, Debrecen University, September 2004.
5. Matsumae International Foundation postdoctoral fellowship, June 1- November 30 2005, Hokkaido Tokai University, Sapporo, Japan abroad

Principal Investigator:

6. Grant Tineri Cercetatori, Ministerul Educatiei, 2002,2003.
7. DynAPSNeur, "Dynamics Analysis of Parallel Simulations of Biological Neural Microcircuits", FP7 "Research Infrastructures" action (January 1 - December 30, 2013) (co Principal Investigator- cu Ioan Lucian Munteanu)
8. Bilateral RO-HU 2013-2014 (local PI)

Presence in conferences:

Participant in more than 40 international conferences, organized in Romania or abroad.

Research interests:

- differential geometry, geometric analysis with focus on different type of curvatures.
- mathematical models in machine learning, AI.
- computational biology, bioinformatics, and network analysis (specially protein analysis, protein-protein interaction networks and pathway networks in cancers and degenerative diseases)

Representative Journals: Mathematische Annalen, Journal of Geometry and Physics, Kyoto Journal of Mathematics, Journal of Mathematical Analysis and Applications, Monatshefte für Mathematik,

Nature, Nature Communications Biology, Expert Opinion on Investigational Drugs, IEEE Transactions on Intelligent Transportation Systems.

Member in several grant teams in mathematics and applications. Some of them:

1. **Proiect de tip STAR, nr. 192/2017** cu titlul "*Tehnici de analiză vizuală a datelor astrofizice multidimensionale pentru detecția obiectelor în mișcare*" NEARBY – director proiect – prof.dr.ing. Gorgan Dorian, în valoare de 515.000,00 RON;
2. **Proiect de tip STAR, nr. 184/2017**, cu titlul "*Platformă software pentru monitorizare pedologică în zona Transilvaniei bazată pe date Sentinel-2*" -HORUS - director proiect- prof.dr.ing. Gorgan Dorian – în valoare 510.000,00 RON;
3. **Proiect de tip Premiere H 2020**, cu titlul "*Automated Urban and Driving -UP Drive PP H2020*, director proiect prof.dr.ing. Nedevschi Sergiu, în valoare de 303.751,00 RON;
4. **Proiect de tip H 2020**, cu titlul "*Automated Urban and Driving -UP Drive*"- UP DRIVE, director proiect – prof.dr.ing. Nedevschi Sergiu, în valoare de 4.039.690,00 EU;
5. **Proiect de tip H 2020**, cu titlul PAN-ROBOTS Capacitati, - director proiect, prof.dr.ing.Nedevschi Sergiu, în valoare de 693.066,00 RON;
6. **Proiect de tip Inovare EUREKA, nr. 322E/2012**, cu titlul "*Servicii ale Viitorului pentru Mobilitate prin Cooperare*"- director proiect, prof.dr.ing. Nedevschi Sergiu, în valoare de 750.000,00 EU;
7. **Proiect de tip PCCA, nr. 210/2012** cu titlul "*Sistem de Observare a Orbitelor Terestre Medii si Inalte bazat pe Stereoviziune*"-AMHEOS- director proiect, conf.dr.ing. Danescu Radu, în valoare de 847.600,00 RON;
8. **Proiect de tip STAR nr. 106/2013**, cu titlul "*Flexible processing of Big Earth data using high performance com*", director proiect - prof.dr.ing. Gorgan Dorian, în valoare de 495.868,19 RON;

9. **Proiect de tip PCCA, nr.344/2014, cu titlul "Platforma experimentală de calcul performant pentru cercetare științifică și dezvoltare antreprenorială"** – director proiect – prof.dr.ing. Gorgan Dorian, în valoare de 721.461,00 RON;
10. **Proiect de tip FP 7, nr.101/2014, cu titlul "Fostering sustainability and uptake of research results through Networking activities in Black Sea & Mediterranean areas"** -IASON, Gorgan Dorian, în valoare de 258.403,20 EU;
11. **Proiect de tip FP 7, cu titlul "IGE"**, director proiect- Muntean Ioan Lucian, în valoare de 985.600,00 EU;

Students coauthors (PhD, Graduate students): Alexandra Dobos, Cristina Prodan, Adina Mandrut, Mircea Drulea, Mihai Negru, Adrian Sabou, Marius Joldos

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