

PERSONAL INFORMATION

Rodica Potolea



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Sex F | Date of birth 16/09/1962 | Nationality Romanian

CURRENT POSITION

Professor, Computer Science Department, Technical University of Cluj-Napoca

Adjunct Associate Professor, School of Undergraduate Studies, University of Maryland University College (UMUC)

WORK EXPERIENCE

2007 – Present

Professor

Technical University of Cluj-Napoca, Computer Science Department, Head of CS Department

- Teaching activity: Fundamental algorithms, Logic programming, Computational Complexity, Datawarehouse and Business Intelligence,
- Research activity

2000 – 2007

Associate professor

Head of CS Department (2005 - Present),

Head of the students admission department (2004-2009)

Technical University of Cluj-Napoca, Computer Science Department

- Teaching activity
- Research activity

1994-2000

Senior Lecturer

Technical University of Cluj-Napoca, Computer Science Department

- Teaching activity: Techniques Practical Activity
- Research activity

1991-1994

Teaching Assistant

Technical University of Cluj-Napoca, Computer Science Department

- Teaching activity:
- Research activity

1990-1991

Researcher

National Computer Science Institute – Cluj-Napoca branch

1986-1990

Programmer

IPEG, Cluj-Napoca branch

- Design and development activities

EDUCATION AND TRAINING

2008 – present

PhD Supervisor

Technical University of Cluj-Napoca

5 supervised PhD thesis defended

10 PhD students currently under supervision

- 1992-1998 **PhD in Computer Science**
Technical University of Cluj-Napoca
"Contributions to Multiparadigm Logic Programming System"
- 1981-1986 **Diplomat Engineer, Computer Science**
Technical University of Cluj-Napoca, Automation and Computer Science Faculty
Programming basics, Logic programming, Object Oriented Programming, Functional programming, Parallel and Distributed Programming, Microprocessors, Operating Systems, Computer Networks

PERSONAL SKILLS

Mother tongue(s) Romanian

| Other language(s) | UNDERSTANDING | | SPEAKING | | WRITING |
|-------------------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C1 | C1 | C1 | C1 | C1 |
| French | B1 | B1 | B2 | B2 | B2 |

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

Communication skills Team player, High communication skills, Adaptive, Reliable
The communication skills were acquired through:

- 27 years of teaching and research activity
- 12 (5) years of CS (Students Admission) department management
- Several international conferences presentations
- Invited talks presentations

Organisational / managerial skills Management skills were acquired through:

- 12 years as Head of the Computer Science Department
- 5 years as Head of the students admission department (2004-2009)
- Lead of the Knowledge Engineering Group (keg.utcluj.ro)
- 12 years as a member of the Automation and Computer Science Faculty Board
- Coordinator of the "Complements of Computer Science" MSc track
- Scientific responsible on four national research projects
- Scientific responsible on two international research projects
- Scientific responsible on one research project with the industry
- Member in more than 10 national and international research projects
- Member in more than two research projects with the industry
- Member of several Tempus programs
- Running more than 10 Erasmus programs (4 still active)

Job-related skills Research skills in the field of Knowledge Engineering

- Fundamental theoretical aspects: dealing with problem-specific features extraction and selection from both structured or unstructured data, pre-processing techniques for handling noisy and/or incomplete data, supervised/unsupervised learning from balanced/unbalanced and structured/unstructured data;
- Practical approaches: Data Mining application prototypes for both structured data (assisted medical diagnosis, spam detection, signature recognition) and unstructured data (topic extraction, opinion mining, community detection, semi-supervised text labelling, contradiction detection). Learning: supervised, semisupervised, unsupervised; domain dependent/independent; NLP techniques, language dependent/cross language strategies.
- Teaching skills 27 years of experience in teaching. Former courses taught (beside the current ones): Software Engineering, Data Structures and Algorithms, Parallel Algorithms.
- Managerial skills: 12 years Head of the CS Department, 5 years Head of the students admission department

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| Computer skills | Advanced Computer Science skills focusing on: <ul style="list-style-type: none"> Algorithms Logic programming Data and Knowledge Management |
| Other skills | Writing scientific papers and presentation of the research results in scientific conferences |
| Driving licence | Driving licence category B |

ADDITIONAL INFORMATION
Publications
(selection of recent/relevant)

1. Borsos, Z., Lemnaru, C. and **Potolea, R.** (2016), "Dealing with overlap and imbalance: a new metric and approach", Pattern Analysis & Applications journal, 1-15, sep. 2016
2. Teodorescu, L.R. Dumitrel, V., **Potolea, R.** (2015). "General Efficiency Analysis for the Sparrow Programming Language". In: 20th International Conference on Control Systems and Computer Science (CSCS), 2015.
3. M.Dinsoreanu, **R.Potolea.** (2014), Opinion-driven communities' detection, (M. Indrawan-Santiago, Eds.) International Journal of Web Information Systems, 10(4), 324–342.
4. Barbantan, I., **Potolea, R.** (2014): "Towards Cross Language Morphologic Negation Identification in Electronic Health Records". MONAMI 2014: 417-430.
5. Dinsoreanu, M., **Potolea, R.** (2013). "Towards a Unified Thematic Model for Recommending Context-Sensitive Content". In Knowledge Discovery, Knowledge Engineering and Knowledge Management (pp. 68-83). Springer Berlin Heidelberg.
6. M. Dînsoreanu, **R. Potolea.** (2013), "A scalable approach for Contradiction Detection driven by Opinion mining, In Proceedings of International Conference on Information Integration and Web-based Applications & Services - IIWAS '13 (p. 7–15), Best paper award
7. Lemnaru, C, **Potolea, R.** (2011) "Imbalanced classification problems: systematic study, issues and best practices". International Conference on Enterprise Information Systems, 2011, 35-50
8. Vanea, A., **Potolea, R.** (2011): "Semantically Enhancing Multimedia Data Warehouses" - Using Ontologies as Part of the Metadata. ICEIS (1) 2011: 163-168

Projects
(principal investigator)

1. Advertising Recommendation System (2011, Research project funded by Nokia Romania),
2. Adaptive Elearning Systems using Concept Maps SEArCH (2008-2011),
3. Virtual Organization using Grid Technology for High Performance Modeling, Simulation and Optimization, GridMOSI (2006-2009),
4. Intelligent system for assisting the therapeutically decision at patients with prostate cancer, IntelPro (2005-2008)

Memberships

ACM, IEEE, founder member of CSITS (Romanian Computer Science and Information Technology Society)

Scientific impact

- h=7, Google Scholar Citations
- h=5, Scopus Citations
- h=3, ISI Web of Knowledge Citations

Professional activity

- PC member for: ISPDC, AQTR, SYNASC, ICSTCC, WICT.
- Invited presentations to peer-reviewed, internationally established conferences and/or international advanced schools:
- Conference chair: International Symposium on Parallel and Distributed Computing (ISPDC 2013, Bucharest, 2012, München, 2011, Cluj-Napoca)
- Program committee chair: International Conference on Intelligent Computer Communication and Processing (2015)
- Organizing committee chair: International Conference on Intelligent Computer Communication and Processing (2006-2014)
- International advanced school: invited presentations at SIMLAB (SimLab Course on Parallel Numerical Simulation, organized by Technische Universität München, Germany) (editions 2010, 2009, 2008, 2007, 2006):
- International advanced school: co-organizer SIMLAB with Technische Universität München, Germany) – (editions 2009, 2008)

Awards

- **IBM Faculty Award winner** (2008)
- IBM Faculty Award nomination (2007)
- Teodorescu, L.R. Dumitrel, V., Potolea, R (2015). "General Efficiency Analysis for the Sparrow Programming Language". In: 20th International Conference on Control Systems and Computer Science (CSCS), (**Best paper award**)
- Dinsoreanu M, Potolea R. (2014), Opinion-driven communities' detection, (M. Indrawan-Santiago, Eds.) International Journal of Web Information Systems, 10(4), 324–342. (**Highly Commended Paper of 2014**)
- Dinşoreanu M., Potolea R. (2013), A scalable approach for Contradiction Detection driven by Opinion mining, In Proceedings of International Conference on Information Integration and Web-based Applications & Services - IIWAS '13 (p. 7–15). (**Best paper award**) (<http://www.iawas.org/conferences/iawas2013/bpa.php>).