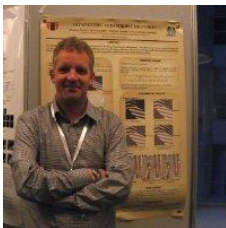


## PERSONAL INFORMATION

## Terebeș Romulus Mircea



📍 71-73 Dorobanților Street, Room 214, Cluj-Napoca, Romania

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✉ Romulus.Terebes@com.utcluj.ro

Sex M | Date of birth 13/12/1969 | Nationality Romanian

## WORK EXPERIENCE

June 2012- present

Vice dean – Faculty of Electronics, Telecommunications and Information Technology  
Teaching and administrative activities and responsibilities

2006- present

**Associate professor**

Research and teaching activities. Course leader for the following disciplines: Mobile Communication Systems (in english) (2006-2009, B.Sc.), Information Processing Technologies (2008-present, B.Sc.), 3G and 4G Mobile Communications (2008-present, master), Techniques avancées pour le traitement d'images et des séquences video (in french, 2007-present, master), Mobile Communication Systems (2007-present, master), Mobile Communications (in english, 2009-present, B.Sc.)

Employer's name and address: Technical University of Cluj-Napoca, 28 Memorandumului Street nr.28, Cluj-Napoca, Romania

Sector: higher education

2001- 2006

**Assistant professor**

Research and teaching activities. Course leader for the following disciplines: Telecommunications (university college), Information Transmission Theory (university college). Didactic activities (labs, seminars) for the Information Transmission Theory course(B.Sc.)

Employer's name and address: Technical University of Cluj-Napoca, 28 Memorandumului Street nr.28, Cluj-Napoca, Romania

Sector: higher education

1997-2001

**Teaching assistant**

Didactic activities (labs, seminars) for the Information Transmission Theory course (B.Sc.) and research activities.

Employer's name and address: Technical University of Cluj-Napoca, 28 Memorandumului Street nr.28, Cluj-Napoca, Romania

Sector: higher education

1995-1997

**Assistant**

Didactic activities (labs, seminars) for the Information Transmission Theory course (B.Sc.) and research activities.

Employer's name and address: Technical University of Cluj-Napoca, 28 Memorandumului Street nr.28, Cluj-Napoca, Romania

Sector: higher education

## EDUCAȚIE ȘI FORMARE

1998-2004

**Ph.D.**

EQF Level:8

Domain: Electronic engineering and telecommunications (Romania)/Automatique, Productique, Signal et Image (France) – coadvised Ph.D. thesis

Ph.D. thesis title: Difuzie direcțională. Aplicații în restaurarea și îmbunătățirea imaginilor reprezentând documente vechi (in romanian)/ Diffusion directionelle. Applications à la restauration et à l'amélioration d'images de documents anciens (in french),

Education organisation's name: Technical University of Cluj-Napoca – Bordeaux 1 University, France – coadvised Ph.D. thesis.

- 1994-1995 **Master** EQF level:7  
 Domain: Electronic engineering and telecommunications  
 Study program: Modern techniques in telecommunications  
 Education organisation's name: Technical University of Cluj-Napoca, Faculty of Electronics, Telecommunications and Information Technology
- 1989-1994 **Engineer** EQF level:5  
 Domain: Electronic engineering and telecommunications  
 Study program: Applied electronics  
 Education organisation's name: Technical University of Cluj-Napoca, Faculty of Electronics, Telecommunications and Information Technology

**PERSONAL SKILLS**

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	Reading
English	C1	C1	C1	B2	B2
Language competence certificate for english, foreign languages department UTCN, 2009					
French	C2	C1	C2	C1	C1
Language competence certificate for french, foreign languages department UTCN, 2009					

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

Communication skills Good communication skills acquired through the teaching and research activity, participation in teaching mobilities and longlife learning programmes, participation and presentation of scientific papers in scientific conferences and workshops.

Organisational / managerial skills Project management experience

- director of a research grant of type PNII-IDEI financed by the Romanian government
- project manager for a research grant of type PNII-CAPACITĂȚI financed by the Romanian government
- director of an international research project with the industry
- director of a national research project with the industry
- member of the research team for other 7 research projects

Other activities:

- president, vicepresident and secretary for the faculty's admission committee– Faculty of Electronics, Telecommunications and Information Technology, 2006- present
- Vice dean - Faculty of Electronics, Telecommunications and Information Technology
- Counselor for francophone activities – Technical University of Cluj-Napoca (2012- present)
- Long time expert for POSDRU projects (2), period: 2007-2010

Job-related skills Partial Differential Equations mathematical modeling for image and video processing  
 Telecommunications  
 2G/3G/4G mobile communications  
 DSP applications in assembly language and in C (Analog Devices, Texas Instruments)  
 Programming languages and IDEs: .NET Visual Studio, MATLAB, Visual DSP ++ , J2ME, Netbeans, Android, OpenCV  
 Mobile applications  
 Web technologies: Java Server Faces, Struts, ASP, WAP push

Other skills	<p>Author of one book (in english), of a book (in romanian), coauthor for other 2 books (in romanian) and for 2 laboratory manuals.</p> <p>First author and coauthor for more than 60 articles in the domains: image and signal processing, mobile communications, information theory.</p> <p>Experience in mentoring activities: counselor for the students of the 3rd year Telecommunications study program, period 2004-2008 and francophone master 2010</p>
Bibliometric data	<p>Google Academic: Indice H : 9. Indice i10 : 5  <a href="http://scholar.google.ro/citations?user=GaMvMIMAAAAAJ&amp;hl=en">http://scholar.google.ro/citations?user=GaMvMIMAAAAAJ&amp;hl=en</a></p> <p>ISI Web of Knowledge: 3                  Scopus:3</p>
Driving licence	B category

ADDITIONAL INFORMATION

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Scientific papers	<p>64 articles: journals, proceedings and patent applications</p> <p>Representative articles (10):</p> <ol style="list-style-type: none"> <li>1.B. Belean, R.Terebeş, A.Bot – “Low-complexity PDE-based approach for automatic microarray image processing ”, MEDICAL &amp; BIOLOGICAL ENGINEERING &amp; COMPUTING, Volume: 53 Issue: 2, pp. 99-110, 2015, ISSN: 0140-0118</li> <li>2. Belean, M.Borda, B.Le Gal, R.Terebeş–“FPGA based system for automatic cDNA microarray image processing ”, COMPUTERIZED MEDICAL IMAGING AND GRAPHICS,Volume: 36, Issue: 5, pp: 419-429, 2012, ISSN: 0895-6111.</li> <li>3.R. Terebeş, M. Borda, S. Pop, O. Laviaille, C. Germain, C.Luduşan–"A novel diffusion filter for image restoration and enhancement", REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE Volume: 55 Issue: 3, 2010, pp. 310-319, ISSN: 0035-4066.</li> <li>4. S. Pop, O. Laviaille, M.Donias, R.Terebeş, M.Borda, S.Guillon, N.Keskes–"A PDE-based approach to three-dimensional seismic data fusion",–IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, Volume:46, Issue:5, pp. 1385-1393,2008, ISSN: 0196-2892</li> <li>5. S. Pop, O.Laviaille, R.Terebeş, M.Borda–"A new partial differential equation-based approach for 3D data denoising and edge preserving", REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET , ENERGETIQUE, Volume: 52 Issue: 4, pp. 407-418, 2007 ISBN:0035-4066.</li> <li>6. R. Terebeş, M. Borda, C.Germain, O. Laviaille –"A novel shock filter for image restoration and enhancement", 2012 PROCEEDINGS OF THE 20TH EUROPEAN SIGNAL PROCESSING CONFERENCE (EUSIPCO). Pages: 255- 259.Location: Bucharest, Romania, Date: AUG 27-31, 2012</li> <li>7.R. Terebeş, S.Pop, M.Borda, C.Luduşan, O. Laviaille– "3D Image Restoration using Diffusion and Fusion Techniques", 52nd International Symposium ELMAR, Zadar, Croatia, pp.37-40, Date: SEP 15-17, 2010.</li> <li>8. R. Terebeş, O.Laviaille, C.Germain, M.Borda, S.Pop–"Asymmetric anisotropic diffusion", 16th IEEE International Conference on Image Processing. Pages: 3889 – 3892. Location: Cairo, EGYPT. Date: NOV 07-10, 2009.</li> <li>9. R.Terebeş, M. Borda, BZ. Yuan,O.Laviaille, P.Baylou–"A new PDE based approach for image restoration and enhancement using robust diffusion directions and directional derivatives based diffusivities", 7th International Conference on Signal Processing, Pages: 707- 712 vol.1. Location: Beijing, PEOPLES R CHINA Date: AUG 31-SEP 04, 2004.</li> <li>10. R. Terebeş, O.Laviaille, P.Baylou, M.Borda–"Mixed anisotropic diffusion", 16th International Conference on Pattern Recognition (ICPR). Pages: 760-763,vol.3 Location: QUEBEC CITY, CANADA. Date: AUG 11-15, 2002.</li> </ol> <p>Patent applications (2):</p> <ol style="list-style-type: none"> <li>1.M. Borda, O.Tomea, R. Terebeş, R. Măluţan–"OTP encryption system and method based on random sequences determined by DNA structures", Patent Number(s): RO129751-A2, indexat în Web of Science. Derwent Primary Accession Number: 2014-Q48050 [58]</li> </ol>
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2.B. Belean, M. Borda, R. Terebeș, R. Măluțan—"Method and hardware architecture for automatic microarray image addressing", Patent Number(s): RO127341-A2, indexat în Web of Science. Derwent Primary Accession Number: 2012-G18344 [68].

Books and book chapters:6

1.R.Terebeș (coord. A. Vlaicu, B.Orza, S. Meza, L. Grindei) – "Utilizarea TIC in Procesul Educational. Distribuirea si Accesarea Materialelor Online. Blended & e-Learning", ISBN:978-973-662-694-4, U.T.Press Cluj-Napoca, 2012

2.M.Alexandru, C. Butnaru, M. Romanca, D.Manea, N.Aleman, R. Terebeș - „Dezvoltarea carierei în învățământul universitar tehnic”, IBSN 978-973-662-820-7, U.T.Press Cluj-Napoca 2012.

3.H. Vălean– "Sisteme ierarhizate și distribuite", ISBN 978-973-662-787-3, Editura Academiei Oamenilor de Știință, 2011. Author for the 4th chapter - „Implementarea sistemelor ierarhizate și distribuite”.

4.R. Terebeș - "Mobile communications systems. Part 1: GSM Networks", ISBN:978-973-662-694-4, U.T.Press Cluj-Napoca, 2006.

5.S. Pop, R. Terebeș, M. Borda - Traitement du signal et d'image par ondelettes. Travaux pratiques, UTPRES, Cluj-Napoca, 2008, ISBN 978-973- 662-427-8.

6.M. Borda, R. Terebeș, C. Văduva, S. Zăhan –Teoria Transmiterii Informației, îndrumător de laborator, Litografia UTCN, 1996, 72 pag , program TEMPUS S-JEP 08012-94.

#### Research grants

Director: 4

1. "Modelarea și filtrarea texturilor multivariate. Aplicații în imagistica SAR pentru teledetecția forestieră/Modélisation et débruitage de textures multivariées. Application à l'imagerie SAR en télédétection forestière- ModText" .Type:PN2 –Capacități, financed by the Romanian and French governments. Partener institution from France: Université de Bordeaux (UB) -Laboratoire de l'Ingénierie du Matériau au Système (IMS). UEFISCDI no. CF379/27.06.2014

2. "Fusion and diffusion techniques for image restoration and enhancement PNII -IDEI - UEFISCSU 908 code, financed by the Romanian government – period 2007-2010.

3. Research contract , nr. 7242/27.04.2006, Zesium mobile Munchen, Germania – Universitatea Tehnică din Cluj-Napoca: "Push Server Software" , partener Germania: ZESIUM GMBH

4. "Clasificarea automatizată a materiei prime"- research contract with an industrial partner (Tenaris-Silcotub), 2015.

Member in the research team for other 7 projects.

#### Awards and distinctions

1. CNCSIS award, type research result awards – ISI article nov. 2008: poz.25; IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING 46(5):1385-1393, MAY 2008 SUBDOMENIUL ISI\*: Engineering, electrical & electronic. Article title: Sorin Pop, Olivier Lavielle, Marc Donias, Romulus Terebeș, Monica Borda, Sebastien Guillon, Noomane Keskes, "A PDE-based approach to three-dimensional seismic data fusion", IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING Volume: 46 Issue: 5 Pages: 1385-1393 Published: MAY 2008, ISSN: 0196-2892

2. Medals at international and national exhibitions of inventions "Euroinvent 2011", "Inventika" 2011, "Proinvent" 2013, "Infoinvent 2011", "IV International Warwaw Inventions Show" 2010.

"Cel mai iubit profesor" – distinction used in the Faculty of Electronics, Telecommunications and Information Technology to nominate the most popular teacher; study program Telecommunications, period 2007-2009.

#### Certifications

Mentor, Romanian occupation code 235902, Training & Teaching Center, 2011

"BSS Sequence", Alcatel University Timisoara, 2005

"OMC-R Sequence", Alcatel University Timisoara, 2008

#### Membership

IEEE, EURASIP

Cluj-Napoca, 27.04.2015

Assoc.prof. Romulus Terebeș, Ph.D.