

## PERSONAL INFORMATION



## Lăcrimioara-Romana GRAMA

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🌐 [http://sp.utcluj.ro/Lacrimioara\\_Grama/LGrama\\_WebPage.html](http://sp.utcluj.ro/Lacrimioara_Grama/LGrama_WebPage.html)

Gender Female — Date of birth 21 October 1979 — Nationality Romanian

## WORK EXPERIENCE

Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology  
Bases of Electronics Department

Oct. 2014 – Present

### Associate Professor

- Lectures: Digital Signal Processing
  - Applied Electronics – 3rd year (in Romanian and English)
  - Telecommunications Technologies and Systems – 4th year (in English)
- Applications: Digital Signal Processing (in Romanian and English)
  - Applied Electronics – 3rd year
  - Telecommunications Technologies and Systems – 4th year

Oct. 2011 – Oct. 2014

### Assistant Professor

- Lectures: Digital Signal Processing (in Romanian and English)
- Applications: Digital Signal Processing (in Romanian and English)

Oct. 2007 – Oct. 2011

### Teaching Assistant

- Lectures: Digital Signal Processing (in English)
- Applications: Digital Signal Processing (in Romanian and English)

Feb. 2004 – Oct. 2007

### Junior Teaching Assistant

- Applications: Digital Signal Processing (in Romanian and English), Digital Signal Processing Systems (in Romanian and English), Optical Processing and Recording of Information (in Romanian), Adaptive Filtering and Statistical Signal Modeling (in Romanian)

Nov. 2003 – Feb. 2004

### PhD Student

## EDUCATION AND TRAINING

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Sept. 2012 **Certificate of awarding professional competencies - Pedagogy**

University POLITEHNICA of Bucharest

Department of Teacher Training, Social Sciences and Humanities

Postgraduate program of training and professional development: "Quality, innovation, communication in the continuous teacher training system of didacticians in higher education"

- Didactics of Science, Technology and Engineering Disciplines
- Overall average grade: 10 / 10

Aug. 14, 2009 **PhD Diploma**

Technical University of Cluj-Napoca

Faculty of Electronics, Telecommunications and Information Technology

- Domain: Electronic Engineering and Telecommunications
- Award: Magna Cum Laude

2003 – 2004 **MSc Diploma**

Technical University of Cluj-Napoca

Faculty of Electronics and Telecommunications

- Specialization: Design Techniques for Complex Electronic Circuits
- Studying years average grade: 9.90 / 10
- Diploma exam average grade: 10 / 10

1998 – 2003 **Engineer Diploma**

Technical University of Cluj-Napoca

Faculty of Electronics and Telecommunications

- Specialization: Communications
- Studying years average grade: 9.58 / 10
- Diploma exam average grade: 9.50 / 10

June 2002 **Certificate of completion the Psycho-Pedagogical module**

Technical University of Cluj-Napoca

Department of Teacher Training

- Disciplines: School Age Psychology, Pedagogy, Teaching Practice, Methodic of Specialties
- Overall average grade: 10 / 10

1994 – 1998 **High School Graduation Diploma**

"Gheorghe Șincai" Theoretical High School, Cluj-Napoca

- Specialization: Mathematics-Physics – English intensive
- Studying years average grade: 8.62 / 10
- Graduation exam average grade: 9.30 / 10

## DIDACTIC AND ADMINISTRATIVE ACTIVITY

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- May 2016 **Member of the Students Symposium jury SSET 2016**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
- 2015 **Member of the Committee preparing the ARACIS accreditation dossier for Economic Engineering in the Electric, Electronic and Energetic Domain program (in Romanian)**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
  - Achieving accreditation documentation
  - Achieving self-evaluation report of the study program
- 2014 – Present **Vice-president of Admission committee – bachelor level**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
  - Development and maintenance of Admission web page — bachelor level  
<http://etti-admitere.utcluj.ro>
  - Administration of the faculty official Facebook page  
<https://www.facebook.com/ETTI.ClujNapoca>
  - Promoting faculty among high school students
- 2013 – Present **Member of the student selection camps beneficiaries**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
- 2013 – Present **Students practice coordinator**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
  - 2016: 14 students
  - 2015: 12 students
  - 2014: 8 students
  - 2013: 8 students
- March 2012 – Present **Faculty Council member**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology,  
Bases of Electronics Department
- June 2011 – Present **Graduation Committee member – bachelor and master level**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology

- 2010 – 2014 **Secretary of Admission committee – bachelor and master level**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
- Development and maintenance of Admission web page — bachelor level  
<http://etti-admitere.utcluj.ro>
  - Administration of the faculty official Facebook page  
<https://www.facebook.com/ETTI.ClujNapoca>
  - Promoting faculty among high school students
- 2013 **Member of the Committee preparing the ARACIS accreditation dossier for Applied Electronics program (in Romanian)**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
- Achieving accreditation documentation
  - Achieving self-evaluation report of the study program
- May 2011 **Member of the Students Symposium jury SSET 2011**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
- April – June 2011 **Practice coordinator – Erasmus students**  
Université "Joseph Fourier" de Grenoble, Networks&Telecommunications
- 2004 – 2010 **Member of Admission committee – bachelor level**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology

## SCIENTIFIC ACTIVITY

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### SCIENTIFIC COMMITTEE MEMBER

- 2016 Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 57, No. 3
- 2015 Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 56, No. 2
- 2014 Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 55, No. 1
- 2013 Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 54, No. 4
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 54, No. 2

**TECHNICAL PROGRAM COMMITTEE MEMBER**

- 2017 3rd International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS 2017), Sept. 13-16, 2017, Manipal, India
- 25th European Signal Processing Conference (EUSIPCO 2017), Aug. 28-Sept. 2, 2017, Kos island, Greece
- 2016 3rd International Symposium on Computer Vision and the Internet (Vision-Net 2016), Sept. 21-24, 2016, Jaipur, India
- 24th European Signal Processing Conference (EUSIPCO 2016), Aug. 29-Sept. 2, 2016, Budapest, Hungary
- 2015 23rd European Signal Processing Conference (EUSIPCO 2015), Aug. 31-Sept. 4, 2015, Nice, Cote d'Azur, France
- 2014 22th European Signal Processing Conference (EUSIPCO 2014), Sept. 1-5, 2014, Lisbon, Portugal
- 2013 21th European Signal Processing Conference (EUSIPCO 2013), Sept. 9-13, 2013, Marrakech, Morocco
- 2012 20th European Signal Processing Conference (EUSIPCO 2012), Aug. 27-31, 2012, Bucharest, Romania

**REVIEWER**

- 2017 9th Conference on Speech Technology and Human – Computer Dialogue (SpeD 2017), July 6-9, 2017, Bucharest, Romania
- 25th European Signal Processing Conference (EUSIPCO 2017), Aug. 28-Sept. 2, 2017, Kos island, Greece
- 4th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2017), Sept. 19-21, 2017, Yogyakarta, Indonesia
- 2016 3rd International Symposium on Computer Vision and the Internet (Vision-Net 2016), Sept. 21-24, 2016, Jaipur, India
- 24th European Signal Processing Conference (EUSIPCO 2016), Aug. 29-Sept. 2, 2016, Budapest, Hungary
- 2015 8th Conference on Speech Technology and Human – Computer Dialogue (SpeD 2015), Oct. 14-17, 2015, Bucharest, Romania
- 23rd European Signal Processing Conference (EUSIPCO 2015), Aug. 31-Sept. 4, 2015, Nice, Cote d'Azur, France
- International Conference on Machine learning and Signal Processing (MAL-SIP 2015), Dec. 15-17, 2015, Melaka, Malaysia
- 2014 22th European Signal Processing Conference (EUSIPCO 2014), Sept. 1-5, 2014, Lisbon, Portugal
- 2013 21th European Signal Processing Conference (EUSIPCO 2013), Sept. 9-13, 2013, Marrakech, Morocco

2012 20th European Signal Processing Conference (EUSIPCO 2012), Aug. 27-31, 2012, Bucharest, Romania

**EDITORIAL COMMITTEE MEMBER**

2007 – 2015 Novice Insights in Electronics, Communications and Information Technology, CNCSIS – category D, <http://www.bel.utcluj.ro/novice/>

**ORGANISING COMMITTEE MEMBER**

- 2017 International Workshop on Recent Trends in Signal Processing (RTSP 2017), July 10-11, 2015, Bucharest, Romania (technical co-chair) – EURASIP indexed
- 2015 International Workshop on Recent Trends in Signal Processing (RTSP 2015), July 6-7, 2015, Cluj-Napoca, Romania (technical co-chair) – EURASIP indexed
- 2013 7th Conference on Speech Technology and Human - Computer Dialog (SpeD 2013), Oct. 16-19, 2013, Cluj-Napoca, Romania – ISI indexed
- 2011 Signal Processing and Applied Mathematics for Electronics and Communications (SPAMEC 2011), Aug. 26-28, 2011, Cluj-Napoca, Romania (technical chair) – EURASIP indexed
- 2010 Intensive Course on Mathematical Methods and Algorithms for Signal Processing, Sept. 10, 2010, Cluj-Napoca, Romania
- 2008 Workshop on Signal Processing Systems for Wireless Communications (SP-SWC 2008), July 3-4, 2008, Cluj-Napoca, Romania
- 2007 International Workshop on Recent Trends in Signal Processing (RTSP 2007), July 9-10, 2007, Cluj-Napoca, Romania

**PERSONAL SKILLS**

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Mother tongue Romanian

European level

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B1	B2	B2	B1	B2

European level: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
Common European Framework of Reference (CEF) level

**Communication skills**

- Good communication skills gained through experience of teaching and being the vice-president/secretary of the admission committee
- Creativity
- Activeness
- Efficiency
- Team spirit
- Ability to work with students from different social/cultural environments
- Ability to work under mentally and psychically stress

Organisational / managerial skills	<ul style="list-style-type: none"> <li>- Leadership               <ul style="list-style-type: none"> <li>o Director of two CNCSIS grants</li> <li>o Partner responsible of one CNCSIS grant</li> <li>o Coordinations of students during internships</li> </ul> </li> <li>- Decisional abilities               <ul style="list-style-type: none"> <li>o Currently responsible for a team of 30 people — admission committee bachelor level</li> <li>o Member of organizing committee of some conferences, workshops and intensive courses</li> </ul> </li> </ul>
Computer skills	<ul style="list-style-type: none"> <li>- Good knowledge of Microsoft Office™ tools and LaTEX</li> <li>- Integrated developing tools: MatLAB/Simulink, OrCAD</li> <li>- Web technologies knowledge</li> </ul>
Driving licence	<ul style="list-style-type: none"> <li>- Category B</li> </ul>

## ADDITIONAL INFORMATION

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### PUBLICATIONS<sup>1</sup>

Total

1 PhD thesis, 1 book, 5 manuals, 2 ISI indexed articles, 18 ISI indexed proceedings papers, 3 IDB indexed proceeding papers, 11 articles in international journals, 6 articles published in CNCSIS category D journals, 14 papers in referred conference proceedings

Most representative 5 from 2012 – Present

**Lăcrimioara Grama, C. Rusu**, *Lecture Notes in Computer Science - Computer Aided Systems Theory - EUROCAST 2015*. Berlin / Heidelberg, Germany: Springer-Verlag, **2015**, vol. 9520, ch. The Quantization Effect on Audio Signals for Wildlife Intruder Detection Systems, pp. 1–8, ISBN: 978-3-319-27340-2, DOI: 10.1007/978-3-319-27340-2\_81.

**Lăcrimioara Grama, C. Rusu**, "About quantization of audio signals for wildlife intruder detection systems," *22nd European Conference on Circuit Theory and Design (ECCTD)*, pp. 328-331, August 24-26, **2015**, Trondheim, Norway; DOI: 10.1109/ECCTD.2015.7300036; WOS: 000380498200018.

C. Rusu, **Lăcrimioara Grama**, "Spectrograms, Sparsograms and Spectral Signatures for Wildlife Intruder Detection," *8th International Conference on Speech Technology and Human-Computer Dialogue (SpeD)*, pp. 1-4, October 14-17, **2015**, Bucharest, Romania; DOI: 10.1109/SPED.2015.7343103; WOS: 000376681700024.

**Lăcrimioara Grama, C. Rusu, G. Oltean, Laura Ivanciu**, "Quantization Effects on Audio Signals for Detecting Intruders in Wild Areas Using TES-PAR S-Matrix and Artificial Neural Networks," *8th International Conference on Speech Technology and Human-Computer Dialogue (SpeD)*, pp. 1-8, October 14-17, **2015**, Bucharest, Romania; DOI: 10.1109/SPED.2015.7343079; WOS: 000376681700006.

G. Oltean, **Lăcrimioara Grama**, Laura Ivanciu, C. Rusu, "Alarming Events Detection Based on Audio Signals Recognition," *8th International Conference on Speech Technology and Human-Computer Dialogue (SpeD)*, pp. 1-8, October 14-17, **2015**, Bucharest, Romania; DOI: 10.1109/SPED.2015.7343106; WOS: 000376681700027.

<sup>1</sup>The complete list of publications is available at [http://www.sp.utcluj.ro/Lacrimioara\\_Grama/Publications\\_LGrama.pdf](http://www.sp.utcluj.ro/Lacrimioara_Grama/Publications_LGrama.pdf)

## RESEARCH GRANTS<sup>2</sup>

Total 2 grants director, 1 grant partner responsible, 8 grants member

Most representative 5 from  
2012 – Present

### Director

Oct. 2016 – Sept. 2018 "Improving contextual awareness of a robot through the analysis of acoustic information – ROXAC" – PN-III-P2-2.1-BG-2016-0378, 54BG/2016

### Partner Responsible

July 2014 – Sept. 2017 "Pavements and roads management, monitoring and maintenance intelligent system using modern imagistic techniques – PAV3M" – PN-II-PT-PCCA-2013-4-1762, 3/2014

Coordinator: Babeş Bolyai University

### Member

2011 – 2013 "Integrated System of Master Programs in Engineering of Sound, Image and Multimedia Applications" - POSDRU 86/1.2/S/61810

Coordinator: University POLITEHNICA of Bucharest

<sup>2</sup>The complete list of research grants is available at [http://www.sp.utcluj.ro/Lacrimioara\\_Grama/Contracts\\_LGrama.pdf](http://www.sp.utcluj.ro/Lacrimioara_Grama/Contracts_LGrama.pdf)

## SCHOLARSHIP

May 2014 – Oct. 2015 Postdoctoral scholarship POSDRU Parting

## MEMBERSHIP

2008 – Present IEEE Signal Processing Society