

PERSONAL  
INFORMATION

Lăcrimioara-Romana GRAMA

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

## WORK EXPERIENCE

Technical University of Cluj-Napoca

Faculty of Electronics, Telecommunications and Information Technology

Basis of Electronics Department

## Oct. 2014 – Present Associate Professor

- Data Modeling and Analysis for Management Decisions (in Romanian)
  - Technologies, Systems and Applications for e-Activities – 2nd year
    - Lecture (2020 - present), Laboratory (2019 - present), Project (2019 - present)
- Digital Signal Processing (in English)
  - Applied Electronics – 3rd year
    - Lecture, Laboratory
  - Telecommunications Technologies and Systems – 4th year
    - Lecture, Laboratory
- Digital Signal Processing (in Romanian)
  - Applied Electronics – 3rd year
    - Lecture (2014 - 2020), Laboratory (2014 - 2020)
  - Telecommunications Technologies and Systems – 4th year
    - Lecture (2014 - 2015, 2018 - 2019), Laboratory (2014 - 2017, 2018 - 2019)

## Oct. 2011 – Oct. 2014 Assistant Professor

- Digital Signal Processing (in English)
  - Applied Electronics – 3rd year
    - Lecture, Laboratory
  - Telecommunications Technologies and Systems – 4th year
    - Lecture, Laboratory
- Digital Signal Processing (in Romanian)
  - 2012 - 2014: Applied Electronics – 3rd year
    - Lecture (2012 -2014), Laboratory
  - Telecommunications Technologies and Systems – 4th year
    - Laboratory

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 – Thesis Title: 'Researches Regarding Phase Approximation from Frequency Response Gain Samples'** Award: Magna Cum Laude

Technical University of Cluj-Napoca

Faculty of Electronics, Telecommunications and Information Technology

- Domain: Electronic Engineering and Telecommunications

2003 – 2004 **MSc – Thesis Title: 'Phase Approximation in Linear and Logarithmic Frequency Domain'** Diploma exam average grade: 10/10

Technical University of Cluj-Napoca

Faculty of Electronics and Telecommunications

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

1998 – 2003 **Engineer Diploma** Diploma exam average grade: 9.50/10

Technical University of Cluj-Napoca

Faculty of Electronics and Telecommunications

- Specialization: Communications
- Studying years average grade: 9.58/10

- 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** Graduation exam average grade: 9.30/10  
"Gheorghe Șincai" Theoretical High School, Cluj-Napoca  
– Specialization: Mathematics-Physics – English intensive  
– Studying years average grade: 8.62/10

#### DIDACTIC AND ADMINISTRATIVE ACTIVITY

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- 2019 **Member of the Committee preparing the RNCIS accreditation dossier for Integrated Circuits and Systems (in Romanian)**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
- 2018 – Present **Vice-president of Admission committee – master level**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology  
– Promoting faculty among bachelor students
- 2018 **Member of the Committee preparing the RNCIS 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
- 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 – 2018 **Vice-president of Admission committee – bachelor level**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology  
– Administration of the faculty official Facebook page  
<https://www.facebook.com/ETTI.ClujNapoca>  
– Promoting faculty among high school students
- 2013 – 2018 **Students practice coordinator**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology  
2017: 9 students      2015: 12 students      2013: 8 students  
2016: 14 students      2014: 8 students
- 2013 – Present **Member of the student selection camps beneficiaries**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology
- March 2012 – Present **Faculty Council member**  
Technical University of Cluj-Napoca  
Faculty of Electronics, Telecommunications and Information Technology  
Basis 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**  
From 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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### ORGANISING COMMITTEE MEMBER

- 2017 International Workshop on Recent Trends in Signal Processing (RTSP 2017), July 10-11, 2017, 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

### TECHNICAL PROGRAM COMMITTEE MEMBER

- 2020 1st International Conference on Artificial Intelligence & Modern Assisted Technology (ICAIMAT 2020), Nov. 24-26, 2020, Riyadh Saudi Arabia  
6th International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS 2020), Oct. 14-17, 2020, Chennai, India
- 2019 5th IEEE International Conference on Image Information Processing (ICIIP 2019), Nov. 15-17, 2019, Wagnaghat, District Solan, Near Shimla, Himachal Pradesh, India  
6th International Symposium on Computer Vision and the Internet (VisionNet 2019), Dec. 18-21, 2019, Trivandrum, Kerala, India
- 2018 5th International Symposium on Computer Vision and the Internet (VisionNet 2018), Sept. 19-22, 2018, Bangalore, India

26th European Signal Processing Conference (EUSIPCO 2018), Sept 3-7, 2018, Rome, Italy

International Conference on Advances in Computing and Data Sciences (ICACDS 2018), April 20-21, 2018, Dehradun, Uttarakhand, India

2017 4th IEEE International Conference on Image Information Processing (ICIIP 2017), Dec. 21-23, 2017, Wagnaghat, District Solan, Near Shimla, Himachal Pradesh, India

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 (VisionNet 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

### SESSION CHAIR

2018 13th International Symposium on Electronics and Telecommunications (ISETC 2018), 8-9 Nov., 2018, Timisoara, Romania

– Signal Processing 1 Session

2017 10th International Symposium on Image and Signal Processing and Applications (ISPA 2017), 18-20 Sept., 2017, Ljubljana, Slovenia

– Signal Processing Session

### EDITORIAL COMMITTEE MEMBER

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

### REVIEWER

2020 International Journal of Electrical and Computer Engineering, Editor-in-Chief: Prof. nzw. dr hab. inz. Lech M. Grzesiak, ISSN: 2088-8708

- Bulletin of Electrical Engineering and Informatics, Editor-in-Chief: Assoc. Prof. Dr. Tole Sutikno, ISSN: 2089-3191
- Telecommunication, Computing, Electronics and Control (TELKOMNIKA), Editor-in-Chief: Assoc. Prof. Dr. Tole Sutikno, ISSN: 1693-6930
- 43rd International Conference on Telecommunications and Signal Processing (TSP 2020), July 7-9, 2020, Milan, Italy
- 2019** Applied Mathematics and Computation – Elsevier, Editor-in-Chief: Theodore Simos, ISSN: 0096-3003
- Energies - MDPI journal, Editor-in-Chief: Prof. Dr. Enrico Sciubba, ISSN: 1996-1073
- IEEE Access, Editor-in-Chief: Prof. Derek Abbott, ISSN: 2169-3536
- IEEE International Symposium on Circuits and Systems (ISCAS 2019), May 26-29, 2019, Sapporo, Hokkaido, Japan
- 42nd International Conference on Telecommunications and Signal Processing (TSP 2019), July 1-3, 2019, Budapest, Hungary
- 5th IEEE International Conference on Image Information Processing (ICIIP 2019), Nov. 15-17, 2019, Wagnaghat, District Solan, Near Shimla, Himachal Pradesh, India
- 10th Conference on Speech Technology and Human – Computer Dialogue (SpeD 2019), Oct. 10-12, 2019, Timisoara, Romania
- 6th International Symposium on Computer Vision and the Internet (VisionNet 2019), Dec. 18-21, 2019, Trivandrum, Kerala, India
- 2018** IEEE Transactions on Industrial Electronics, Editor-in-Chief Leopoldo Garcia Franquelo, ISSN: 0278-0046
- Evolutionary Intelligence, Editor-in-Chief: Vincenzo Loia, ISSN: 1864-5909
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 59, No. 1
- 3rd International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE 2018), Nov. 13-14, 2018, Yogyakarta, Indonesia
- 5th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2018), Oct. 16-18, 2018, Malang, Indonesia
- 5th International Symposium on Computer Vision and the Internet (VisionNet 2018), Sept. 19-22, 2018, Bangalore, India
- 4th International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS 2018), Sept. 19-22, 2018, Bangalore, India
- 26th European Signal Processing Conference (EUSIPCO 2018), Sept. 3-7, 2018, Rome, Italy
- 41st International Conference on Telecommunications and Signal Processing (TSP 2018), July 4-6, 2018, Athens, Greece
- International Conference on Advances in Computing and Data Sciences (ICACDS 2018), April 20-21, 2018, Dehradun, Uttarakhand, India

- 2017 4th IEEE International Conference on Image Information Processing (ICIIP 2017), Dec. 21-23, 2017, Wahnaghat, District Solan, Near Shimla, Himachal Pradesh, India
- 5th IEEE Global Conference on Signal and Information Processing (GlobalSIP 2017), Nov. 14-16, 2017, Montreal, Canada
- 4th International Conference on Innovative and Creative Information Technology (ICITech 2017), Nov. 2-4, 2017, Salatiga, Indonesia
- 4th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2017), Sept. 19-21, 2017, Yogyakarta, Indonesia
- 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
- 9th Conference on Speech Technology and Human – Computer Dialogue (SpeD 2017), July 6-9, 2017, Bucharest, Romania
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 58, No. 3
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 58, No. 2
- 2016 3rd International Symposium on Computer Vision and the Internet (VisionNet 2016), Sept. 21-24, 2016, Jaipur, India
- 24th European Signal Processing Conference (EUSIPCO 2016), Aug. 29-Sept. 2, 2016, Budapest, Hungary
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 57, No. 3
- 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
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 56, No. 2
- 2014 22th European Signal Processing Conference (EUSIPCO 2014), Sept. 1-5, 2014, Lisbon, Portugal
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542, Vol. 55, No. 1
- 2013 21th European Signal Processing Conference (EUSIPCO 2013), Sept. 9-13, 2013, Marrakech, Morocco
- 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

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

PERSONAL SKILLS

Mother tongue Romanian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B2	B1	B2

Levels: 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 – Leadership  
 • Director of three CNCSIS grants  
 • Partner responsible of two CNCSIS grant  
 • Coordinations of students during internships  
 – Decisional abilities  
 • Responsible for a team of 35 people – admission committee bachelor level  
 • Member of organizing committee of some conferences, workshops and intensive courses

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

[Digital competences - Self-assessment grid](#)

Computer skills – Good knowledge of Microsoft Office™ tools and LaTeX  
 – Integrated developing tools: MatLAB/Simulink, OrCAD, WEKA, Python  
 – Web technologies knowledge

Driving licence B

## ADDITIONAL INFORMATION

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

**Total** 1 PhD thesis, 1 book, 5 manuals, 2 ISI indexed articles, 30 ISI indexed proceedings papers, 7 IDB indexed proceeding papers, 17 articles in international journals, 8 articles published in CNCSIS category D journals, 14 papers in referred conference proceedings

**Most representative 5 from 2015 – Present** **Lăcrimioara Grama, C. Rusu**, "Extending Assisted Audio Capabilities of TIAGo Service Robot," *Proceeding of International Conference on Speech Technology and Human Computer Dialogue (SpeD)*, pp. 1-8, Oct. 10-12, **2019**, Timisoara, Romania, ISBN: 978-1-7281-0984-8, DOI: 10.1109/SPED.2019.8906635, WOS: 000571718700033

**Lăcrimioara Grama, C. Rusu**, "Adding Audio Capabilities to TIAGo Service Robot," *Proceeding of 13th International Symposium on Electronics and Telecommunications (ISETC)*, pp. 263-266, Nov. 8-9, **2018**, Timisoara, Romania, ISBN: 978-1-5386-5924-3, DOI: 10.1109/ISETC.2018.8583897, WOS: 000463031500059

**Most representative 5 from 2014 – Present** **C. Rusu, Lăcrimioara Grama**, "Recent Developments in Acoustical Signal Classification for Monitoring" (invited paper), *5th International Symposium on Electrical and Electronics Engineering (ISEEE)*, pp. 1-10, Oct. 20-22, **2017**, Galati, Romania, ISBN: 978-1-5386-2059-5, DOI: 10.1109/ISEEE.2017.8170705, WOS: 000428234400081.

**Lăcrimioara Grama, C. Rusu**, "Choosing an Accurate number of Mel Frequency Cepstral Coefficients for Audio Classification Purpose," *10th International Symposium on Image and Signal Processing and Analysis (ISPA)*, pp. 225-230, Sept. 18-20, **2017**, Ljubljana, Slovenia, ISBN: 978-1-5386-3368-7, DOI: 10.1109/ISPA.2017.8073600, WOS: 000442428600042

**Lăcrimioara Grama, C. Rusu**, "Audio signal classification using Linear Predictive Coding and Random Forests," *9th International Conference on Speech Technology and Human-Computer Dialogue (SpeD)*, pp. 1-9, July 6-9, **2017**, Bucharest, Romania, DOI: 10.1109/SPED.2017.7990431, WOS: 000425849600006.

<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** 1 grant coordinator, 2 grants director, 2 grants partner responsible, 8 grants member

**Most representative 5 from 2015 – Present**

#### Coordinator

**Aug. 2017 – Dec. 2018** "Smart Acoustic Sensor for Intruder Detection – SASID" – PN-III-P2-2.1-PED-2016-1608, 222PED/2017

– Coordinator: Technical University of Cluj-Napoca

– Partners: IT Center for Science and Technology S.R.L.

### 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

Oct. 2020 – Sept. 2022 "Versatile and economically viable robotic platform for indoor navigation in cluttered environments with obstacles – OMNI-Z" – PN-III-P2-2.1-PTE-2019-0867, 52/2020  
– Coordonator: IT Center for Science and Technology S.R.L.  
– Parteneri: Politehnica University of Bucharest; Technical University of Cluj-Napoca; Gheorghe Asachi Technical University of Iași

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: Babeș Bolyai University  
– Partners: IT Center for Science and Technology S.R.L.; The Competence Center in Electrostatic and Electrotechnologies S.R.L.; "VALAHIA" University of Târgoviște; University "Dunărea de Jos" Galați; Technical University of Cluj-Napoca

<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  
2018 – Present IEEE Circuits and Systems Society  
2018 – Present IEEE Robotics and Automation Society  
2018 – Present IEEE Sensors Council  
2017 – Present IEEE Computational Intelligence Society  
2008 – Present IEEE Signal Processing Society  
2008 – 2010 IEEE Circuits and Systems Society  
2008 – 2010 IEEE Women in Engineering  
2008 – 2009 IEEE Communications Society  
2008 – 2009 IEEE Photonics Society