

PERSONAL
INFORMATION

Lăcrimioara-Romana GRAMA

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🌐 <http://sp.utcluj.ro>

🆔 ORCID [0000-0003-0383-5196](https://orcid.org/0000-0003-0383-5196)

📅 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 MSc
 - 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)
 - 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****Apr. 2024 Certificate of participation: University Leadership Program**

Harvard Graduate School of Education & Romanian-American Foundation

Nov. 2023 Certificate of participation: Success in Entrepreneurship Ecosystem Development Program

Babson College & Romanian-American Foundation

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"

- Didactic 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, Methodical 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

- Feb. 2022 – Present **Vice-Dean**
Technical University of Cluj-Napoca
Faculty of Electronics, Telecommunications and Information Technology
- Feb. 2024 – Present **Member of RO European Universities – Joint/European Degree work-group**
– Representing the Technical University of Cluj-Napoca among some Romanian universities that are members of European alliances
- 2022 – Present **President of Admissions committee – master level**
Technical University of Cluj-Napoca
Faculty of Electronics, Telecommunications and Information Technology
– Promoting ETTI's MSc programs among bachelor students
– Organizing the admissions in accordance with the legal provisions
– Establishing the tasks of the faculty admissions committee's members

- 2022 – 2023 **Member of EUt+ – Education Committee**
- Representing the Technical University of Cluj-Napoca among the other EUt+ partner universities
 - University of Technology of Troyes, Darmstadt University of Applied Sciences, Riga Technical University, Technological University Dublin, Technical University of Sofia, Cyprus University of Technology, and Technical University of Cartagena, Università degli studi di Cassino e del Lazio Meridionale
- 2021 **Member of the Committee preparing the ARACIS accreditation dossier for Applied Electronics program (in English)**
- Technical University of Cluj-Napoca
Faculty of Electronics, Telecommunications and Information Technology
- Achieving accreditation documentation
 - Achieving self-evaluation report of the study program
- 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 – 2022 **Vice-President of Admissions committee – master level**
- Technical University of Cluj-Napoca
Faculty of Electronics, Telecommunications and Information Technology
- Promoting ETTI's MSc programs 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 Admissions committee – bachelor level**
Technical University of Cluj-Napoca
Faculty of Electronics, Telecommunications and Information Technology
– Administration of the faculty’s official Facebook page
– Promoting the ETTI faculty among high school students
- 2013 – 2017 **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 Admissions committee – bachelor and master level**
Technical University of Cluj-Napoca
Faculty of Electronics, Telecommunications and Information Technology
– Development and maintenance of Admissions web page — bachelor level
– Administration of the faculty’s official Facebook page
– Promoting the ETTI 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 Admissions committee – bachelor level**
Technical University of Cluj-Napoca
Faculty of Electronics, Telecommunications and Information Technology

SCIENTIFIC ACTIVITY

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), Nov. 24-26, 2020, Riyadh Saudi Arabia
- 6th International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS), Oct. 14-17, 2020, Chennai, India

- 2019 5th IEEE International Conference on Image Information Processing (ICIIP), Nov. 15-17, 2019, Waknaghat, District Solan, Near Shimla, Himachal Pradesh, India
- 6th International Symposium on Computer Vision and the Internet (Vision-Net), Dec. 18-21, 2019, Trivandrum, Kerala, India
- 2018 5th International Symposium on Computer Vision and the Internet (Vision-Net), Sept. 19-22, 2018, Bangalore, India
- 26th European Signal Processing Conference (EUSIPCO), Sept 3-7, 2018, Rome, Italy
- International Conference on Advances in Computing and Data Sciences (ICACDS), April 20-21, 2018, Dehradun, Uttarakhand, India
- 2017 4th IEEE International Conference on Image Information Processing (ICIIP), Dec. 21-23, 2017, Waknaghat, District Solan, Near Shimla, Himachal Pradesh, India
- 3rd International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS), Sept. 13-16, 2017, Manipal, India
- 25th European Signal Processing Conference (EUSIPCO), Aug. 28-Sept. 2, 2017, Kos island, Greece
- 2016 3rd International Symposium on Computer Vision and the Internet (Vision-Net), Sept. 21-24, 2016, Jaipur, India
- 24th European Signal Processing Conference (EUSIPCO), Aug. 29-Sept. 2, 2016, Budapest, Hungary
- 2015 23rd European Signal Processing Conference (EUSIPCO), Aug. 31-Sept. 4, 2015, Nice, Cote d'Azur, France
- 2014 22th European Signal Processing Conference (EUSIPCO), Sept. 1-5, 2014, Lisbon, Portugal
- 2013 21th European Signal Processing Conference (EUSIPCO), Sept. 9-13, 2013, Marrakech, Morocco
- 2012 20th European Signal Processing Conference (EUSIPCO), Aug. 27-31, 2012, Bucharest, Romania

SESSION CHAIR

- 2018 13th International Symposium on Electronics and Telecommunications (ISETC), 8-9 Nov., 2018, Timisoara, Romania
- Signal Processing 1 Session
- 2017 10th International Symposium on Image and Signal Processing and Applications (ISPA), 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

REVIEWER

- 2024 International Journal of Computing and Digital Systems, ISSN: 2210-142x
- 2023 Applied Sciences – MDPI journal, ISSN: 2076-3417
Mathematical Problems in Engineering – Hindawi journal, ISSN: 1563-5147
International Journal of Computing and Digital Systems, ISSN: 2210-142x
12th Conference on Speech Technology and Human - Computer Dialogue (SpeD), Oct. 25-27, 2023, Bucharest, Romania
Al-Sadiq International Conference on Communication and Information Technology (AICCIT), May 10-12, 2023, Al Muthanna Province, Iraq
- 2022 Transactions on Human-Robot Interaction – ACM journal, ISSN: 2573-9522
Mathematics – MDPI journal, ISSN: 2227-7390
Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542
International Conference on Electromagnetic Fields, Signals and BioMedical Engineering (ICEMS-BIOMED), May 19-20, 2022, Sibiu, Romania
45th International Conference on Telecommunications and Signal Processing (TSP), July 13-15, 2022, virtual conference
15th International Symposium on Electronics and Telecommunications (ISETC), Nov. 10-21, 2022, Timisoara, Romania
- 2021 Designs – MDPI journal, ISSN: 2411-9660
Electronics – MDPI journal, ISSN: 2079-9292
Knowledge-Based Systems – Elsevier journal, ISSN: 0950-7051
International Journal of Electrical and Computer Engineering, ISSN: 2088-8708
Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542
Telecommunication, Computing, Electronics and Control (TELKOMNIKA), ISSN: 1693-6930
Indonesian Journal of Electrical Engineering and Computer Science, ISSN: 2505-4752
11th Conference on Speech Technology and Human - Computer Dialogue (SpeD), Oct. 13-15, 2021, Bucharest, Romania
- 2020 International Journal of Electrical and Computer Engineering, ISSN: 2088-8708

- Bulletin of Electrical Engineering and Informatics, ISSN: 2089-3191
Telecommunication, Computing, Electronics and Control (TELKOMNIKA),
ISSN: 1693-6930
43rd International Conference on Telecommunications and Signal Processing
(TSP), July 7-9, 2020, Milan, Italy
- 2019** Applied Mathematics and Computation – Elsevier journal, ISSN: 0096-3003
Energies – MDPI journal, ISSN: 1996-1073
IEEE Access, ISSN: 2169-3536
IEEE International Symposium on Circuits and Systems (ISCAS), May 26-29,
2019, Sapporo, Hokkaido, Japan
42nd International Conference on Telecommunications and Signal Processing
(TSP), July 1-3, 2019, Budapest, Hungary
5th IEEE International Conference on Image Information Processing (ICIIP),
Nov. 15-17, 2019, Wagnaghat, District Solan, Near Shimla, Himachal Pradesh,
India
10th Conference on Speech Technology and Human - Computer Dialogue
(SpeD), Oct. 10-12, 2019, Timisoara, Romania
6th International Symposium on Computer Vision and the Internet (Vision-
Net), Dec. 18-21, 2019, Trivandrum, Kerala, India
- 2018** IEEE Transactions on Industrial Electronics, ISSN: 0278-0046
Evolutionary Intelligence – SpringerLink journal, ISSN: 1864-5909
Acta Technica Napocensis – Electronics and Telecommunications, ISSN: 1221-
6542
3rd International Conference on Information Technology, Information Sys-
tems and Electrical Engineering (ICITISEE), Nov. 13-14, 2018, Yogyakarta,
Indonesia
5th International Conference on Electrical Engineering, Computer Science and
Informatics (EECSI), Oct. 16-18, 2018, Malang, Indonesia
5th International Symposium on Computer Vision and the Internet (Vision-
Net), 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), Sept. 3-7, 2018,
Rome, Italy
41st International Conference on Telecommunications and Signal Processing
(TSP), July 4-6, 2018, Athens, Greece
International Conference on Advances in Computing and Data Sciences
(ICACDS), April 20-21, 2018, Dehradun, Uttarakhand, India

- 2017 4th IEEE International Conference on Image Information Processing (ICIIP), Dec. 21-23, 2017, Waknaghat, District Solan, Near Shimla, Himachal Pradesh, India
- 5th IEEE Global Conference on Signal and Information Processing (Global-SIP), Nov. 14-16, 2017, Montreal, Canada
- 4th International Conference on Innovative and Creative Information Technology (ICITech), Nov. 2-4, 2017, Salatiga, Indonesia
- 4th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI), Sept. 19-21, 2017, Yogyakarta, Indonesia
- 3rd International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS), Sept. 13-16, 2017, Manipal, India
- 25th European Signal Processing Conference (EUSIPCO), Aug. 28-Sept. 2, 2017, Kos island, Greece
- 9th Conference on Speech Technology and Human - Computer Dialogue (SpeD), July 6-9, 2017, Bucharest, Romania
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542
- 2016 3rd International Symposium on Computer Vision and the Internet (Vision-Net), Sept. 21-24, 2016, Jaipur, India
- 24th European Signal Processing Conference (EUSIPCO), Aug. 29-Sept. 2, 2016, Budapest, Hungary
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542
- 2015 8th Conference on Speech Technology and Human - Computer Dialogue (SpeD), Oct. 14-17, 2015, Bucharest, Romania
- 23rd European Signal Processing Conference (EUSIPCO), Aug. 31-Sept. 4, 2015, Nice, Cote d'Azur, France
- International Conference on Machine learning and Signal Processing (MAL-SIP), Dec. 15-17, 2015, Melaka, Malaysia
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542
- 2014 22th European Signal Processing Conference (EUSIPCO), Sept. 1-5, 2014, Lisbon, Portugal
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542
- 2013 21th European Signal Processing Conference (EUSIPCO), Sept. 9-13, 2013, Marrakech, Morocco
- Acta Technica Napocensis - Electronics and Telecommunications, ISSN: 1221-6542

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

PERSONAL SKILLS

Mother tongue Romanian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills gained through experience of teaching and being in charge of the admissions committee
- Active listener
- Good public speaker gained through the vice-dean position and teaching career
- Ability to work with students from different social/ cultural backgrounds

Organisational/ managerial skills

- Leadership
 - Director of three CNCSIS grants
 - Partner responsible of two CNCSIS grant
 - Coordination of students during internships
- Team player
- Ability to take on-the-spot decisions under high pressure situations
 - Responsible for a team of 35 people – admissions committee bachelor level
 - Member of organizing committee of conferences, workshops and intensive courses
- Efficiency

Digital competences

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

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

Computer skills

- Good knowledge of the Microsoft Office™ suite and LaTeX
- Integrated development tools: MatLAB/Simulink, OrCAD, WEKA, Python
- Web technologies knowledge

Driving licence B

ADDITIONAL INFORMATION

PUBLICATIONS¹

Total 1 PhD thesis, 1 book, 5 manuals, 6 ISI indexed articles, 36 ISI indexed proceedings papers, 10 IDB indexed proceeding papers, 21 articles in international journals, 8 articles published in CNCSIS category D journals, 15 papers in referred conference proceedings

- Most representative 5 from 2020 – Present**
- M.C. Popescu, **Lăcrimioara Grama**, C. Rusu, "An algorithm for training a class of polynomial models," *Digital Signal Processing*, vol. 141, 104168, **2023**, ISSN: 1051-2004, DOI: 10.1016/j.dsp.2023.104168, WOS: 001051405700001; link
- T.V. Șerban-Moga, **Lăcrimioara Grama**, C. Rusu, "Classification and Identification of Certain Types of Car Accidents Based on Sound Information," *Proceeding of Speech Technology and Human-Computer Dialogue (SpeD)*, pp. 1-4, October 25-27, **2023**, Bucharest, Romania, eISBN: 979-8-3503-2797-7, DOI: 10.1109/SpeD59241.2023.10314919, WOS: ; link
- C. Rusu, **Lăcrimioara Grama**, "Analog Phase Samples Approximation from Gain Samples by Discrete Hilbert Transform," *Circuits, Systems, and Signal Processing*, vol. 41, issue 2, **2022**, ISSN: 1531-5878, DOI: 10.1007/s00034-022-01965-0, WOS: 000751202000001; link
- C. Popescu, **Lăcrimioara Grama**, C. Rusu, "A Highly Scalable Method for Extractive Text Summarization Using Convex Optimization," *Symmetry-Basel*, vol. 13, issue 10: 1824, **2021**, ISSN: 2073-8994, DOI: 10.3390/sym13101824, WOS: 000717213500001; link
- Lăcrimioara Grama**, Lorena Muscar, C. Rusu, "Sound Classification Algorithms for Indoor Human Activities," *Proceeding of 16th International Conference on Engineering of Modern Electric Systems (EMES)*, pp. 1-4, June 1-4, **2021**, Oradea, Romania, ISBN: 978-1-6654-4995-3, DOI: 10.1109/EMES52337.2021.9484121, WOS: 000855847300025; link

¹The complete list of publications is available at https://sp.utcluj.ro/Lacrimioara_Grama/Publications_LGrama.pdf

RESEARCH GRANTS²

Total 1 grant coordinator, 2 grants director, 2 grants partner responsible, 9 grants member

Most representative from
2020 – Present

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

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

– Partners: Politechnica University of Bucharest; Technical University of Cluj-Napoca; Gheorghe Asachi Technical University of Iași

²The complete list of research grants is available at https://sp.utcluj.ro/Lacrimioara_Grama/Projects_LGrama.pdf

SCHOLARSHIP

May 2014 – Oct. 2015 Postdoctoral scholarship POSDRU Parting

MEMBERSHIP

2008 – Present IEEE

2021 – Present IEEE Education Society

2018 – Present IEEE Sensors Council

2018 – 2019, 2021 – Present IEEE Robotics and Automation Society

2017 – 2019, 2021 – Present IEEE Computational Intelligence Society

2008 – Present IEEE Signal Processing Society

2008 – 2010, 2018 – 2019, 2021 IEEE Circuits and Systems Society

– Present

2008 – 2010 IEEE Women in Engineering

2008 – 2009 IEEE Communications Society

2008 – 2009 IEEE Photonics Society