

# Curriculum Vitae

## Personal information

Surname(s) / First name(s) **MORARU Luminița**  
Address(es) 56 Alexandru cel Bun St, 800192, Galati, Romania  
Fax(es) +40 0336 130 286  
E-mail luminita.moraru@ugal.ro  
Nationality Romanian  
Date of birth 21.03.1963  
Gender Female

**Expertise** Numerical Analysis, Simulation and Modelling tools  
Signal & imaging processing, Algorithms and Artificial Neural Networks  
Acoustical engineering

## Work experience

08.2007, **PhD advisor**  
10.2007 – present, **Senior expert of National and International Research Agencies**  
04.2005, **Professor**  
10.1997, PhD in Engineering Sciences, Technical Acoustics

**Experience on evaluating project proposal**

2008-2010- for National Agencies- more than 30 projects.  
2009-2010- for Katholieke Universiteit Leuven- 2 projects.  
2011 for Irish Research Council for Science, Engineering and Technology IRCSET Postdoctoral Fellowship Schemes -3 projects.  
2014 External Review of the cluster of the educational programmes PHYSICS, Federal State Autonomous Educational Institute of Higher Professional Education “North Caucasus Federal University”, Russia  
2016 Irish Research Council for Science, Engineering and Technology - 2016/2017- 2 projects  
2016 ESF European Science Foundation, expert (20 October 2016 to 19 October 2019)- [www.esf.org](http://www.esf.org)  
2016 UEFISCDI Executive Agency for Higher Education, Research, Development and Innovation Funding, Programmes: PNCDI III - Programme 2, Sub-programme 2.1. Competitiveness by research, development and innovation Experimental - Demonstration Project – 16 projects  
2016 External Review of the cluster of the educational programmes EDUCATION SCIENCES, National Agency for Quality Assurance in Professional Education, Republic of Moldova – 8 universities, 13 study programmes.  
2016 **Competition within the Core Program/** Health (financed by Ministry of Research and Innovation)  
2017 selected as external evaluator by the Central Coordination Unit under the administration of the Council of Ministers of the Republic of Bulgaria  
2017 External Reviewer for **Research projects to stimulate young independent teams** – 4 projects (financed by Ministry of Research and Innovation – UEFISCDI)  
2017 External Reviewer for **Postdoctoral research projects** – 4 projects (financed by Ministry of Research and Innovation – UEFISCDI)

2017 External Reviewer for **Complex projects completed in consortia CDI (FPRD)** – 9 projects (financed by Ministry of Research and Innovation – UEFISCDI)

2017 **Competition within the Core Program/** Eco-Nanotechnologies and Advanced Materials (financed by Ministry of Research and Innovation)

2018 External Reviewer for **Organization and cluster development - Innovative Cluster (CLS)** (financed by Ministry of Research and Innovation – UEFISCDI)

2018 **Competition within the Core Program for the period 2019-2022**, Eco-Nanotechnologies and Advanced Materials (financed by Ministry of Research and Innovation) 9 projects

2018 ESF **European Science Foundation** expert (20 October 2016 to 19 October 2019) [www.esf.org](http://www.esf.org)

2018 ESF-Science Connect: **A\*MIDEX International Call** - scientific project evaluation

2019 **Competition within the Core Program for the period 2019-2022**, Eco-Nanotechnologies and Advanced Materials (financed by Ministry of Research and Innovation)

2019 External Reviewer for **The National Plan for Research and Development and Innovation 2015-2020**, Subprogram 2.1: Research, development and innovation / Experimental demonstration project – 14 projects

2019 External Reviewer for **The National Plan for Research and Development and Innovation 2015-2020**, Subprogram 2.1: Research, development and innovation / Transfer to the operator – 7 projects

2019 External Reviewer for **The National Plan for Research and Development and Innovation 2015-2020, Subprogram 1.2: Institutional performance** / Institutional Development Projects - Projects funding excellence in R & D – 4 projects

2018-2020 **Visiting Professor** at College of Information and Engineering, Wenzhou Medical University, PR of China

- 2005 onwards Professor  
University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania  
*Teaching activity* (courses) for bachelor and master students; coordinating master / bachelor theses  
*Field of interest:* Medical engineering; Signal & imaging processing; Diagnostic tools; Applied Physics and Acoustics.  
*Research activities* on the basis of grants awarded through competition
- 1999 - 2005 Associate Professor  
University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania  
*Teaching activity* (courses) for bachelor and master students; coordinating master / bachelor theses  
Research activity
- 1993 - 1999 Lecturer  
University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania  
Teaching in the field of Physics, Physics of materials (courses, seminars, tutorials and projects).  
Research activity
- 1990 - 1993 Assistant Professor  
University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania  
Teaching activity (laboratory seminar papers / projects) for bachelor level ; coordinating bachelor Theses  
Fundamental research activity

## Public professional activities

### Editing activities

2014 to date Member of the Editorial Board of **International Journal of Radiology** <http://www.ghrnet.org/index.php/ijr>  
 2016 to date Member of the Editorial Board of **International Journal of Ambient Computing and Intelligence** (IJACI), <http://www.igi-global.com/journal/international-journal-ambient-computing-intelligence/1110>  
 2018 to date  
 2020 to date Member of the Editorial Board of **Computational and Mathematical Methods in Medicine**, <https://mts.hindawi.com/> (WoS, IF = 1,545)  
 2020 Member of the Editorial Board of **Journal of Imaging**, <https://www.mdpi.com/journal/jimaging/editors> (WoS)  
 2020 Guest editor of a special issue "**Entropy Based Image Registration**", [https://www.mdpi.com/journal/entropy/special\\_issues/entropy\\_image](https://www.mdpi.com/journal/entropy/special_issues/entropy_image) (WoS, IF = 2,419)

**Ad-hoc reviewer** of manuscripts for international journals such as: Biomedical Signal Processing and Control, Annals of Biomedical Engineering, Current Medical Imaging, Magnetic Resonance Imaging Journal of Advanced Research, Journal of Medical Systems, Multimedia Tools and Applications Current Medical Imaging Reviews, Journal of Ambient Intelligence and Humanized Computing, Journal of Systems Architecture, IET Image Processing

**External examiner to adjudicate on the international PhD thesis:** more than 25 PhD dissertations in Romania and abroad.

**Internal PhD examiner** for more than 10 PhD dissertations at the University Dunarea de Jos of Galati.

## Education and training

2007-2008 MSc  
 European Programmes and Policy-making and Coordination  
 University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania

2005 - 2007 MSc  
 Management and environmental monitoring  
 University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania

1992-1997 PhD in Technical Physics  
*The influence of ultrasound on physical properties of aluminium and AISi12% alloy in liquid phase and in solidification processes*, in Technical Physics  
 University "Dunărea de Jos" of Galați, 47 Domnească St, 800008 Galati Romania

1981 - 1986 Bachelor of Physics  
 Technical Physics; Research methods  
 University Bucharest, Physics Faculty, Bucharest, Romania

## Membership of professional bodies:

National Council of Scientific Research for Higher Education CNCSIS, evaluator expert (2007-2012)  
 National Centre for Programme Management CNMP, evaluator expert (2007)  
 Evaluator expert for government research grants, registered in the *National File of Experts (Registrul Național al Experților - RNE) in Academic and Research* (2007).  
 Romanian Agency for Quality Assurance in Higher Education ARACIS evaluator expert (2008-2018)  
 Member of the European Technology Platform "Networked and Electronic Media" - Romanian Mirror Group  
 Member of the European Technology Platform ARTEMIS „Intelligent Embedded Systems”, Romanian Mirror Group  
 Scientific committee- member of scientific board for international/national conferences

## Personal skills and competences

Sound basis on knowledge on EC funded projects and grant scheme management; Knowledge of tendering and procurement procedures under national projects; Working with national consultancy agencies.

Human resources development- Training needs analysis; Delivery of training programmes (mainly for teachers) at local level; Training of trainers; Educational Management.

Native language **Romanian**

Other language(s)

Self-assessment  
 European level (\*)

**English**

Understanding		Speaking		Writing					
Listening	Reading	Spoken interaction	Spoken production						
B2	Advanced user	B2	Advanced user	B1	Independent user	B2	Independent user	B2	Advanced user

**French**

A2 Intermediate user | A2 Intermediate user | A2 Intermediate user | A2 Intermediate user | A2 Intermediate user

(\*) Common European Framework of Reference for Languages

Social skills and competences	Team work: I have worked in various research teams; Training and experience in management, international perspective, maturity and good networking skills; Proactive self-starter, very good with generating ideas and implementing them; Very good oral and written communication and interpersonal skills; High commitment to team working on both national and international level, in multicultural environments; Presentation skills in executive level settings.
Organisational skills and competences	Project management, including supervision Experienced in project planning and administration, in team management Experienced in scientific publishing management: The Annals of the University „Dunărea de Jos” of Galati: Fascicle Mathematics, Physics, Theoretical Mechanics
Technical skills and competences	In depth knowledge of computational methods in medical imaging, medical image processing and segmentation, computer aided detection/diagnosis, infrasound/ultrasound systems, acoustic holography Human resources development- Training needs analysis; Delivery of training programs (mainly for teachers) at local level; Training of trainers; Educational Management Very good skills in: measurement equipment; computational data processing and analysis; air pollution measurement.
Computer skills and competences	Experienced with MS Windows, MS Office (Excel, Word, and PowerPoint), Photoshop Paint, ORIGIN, Adobe Acrobat Reader 6.0, Designer. Experienced in: computer data acquisition, data processing. Matlab, ImageJ Experienced in Internet use, search techniques and managing email.
Other skills and competences	Sport, gardening
Driving licence	driving licence for B category

**Additional information**

Publications:  
- more than 170 published articles and papers in Natural Sciences, Medical Engineering and Image processing, Acoustic, Physics of Materials and Environmental Acoustic.

<http://www.researcherid.com/rid/A-8532-2012>  
<http://scholar.google.com/citations?user=h3vqhwwAAAAJ>  
<https://orcid.org/0000-0002-9121-5714>  
**h-index 22 (Clarivate)**

**Research Projects****Project national coordinator**

**Horizon 2020, Call: H2020-BES-2015, Topic: BES-08-2015, Type of action: RIA,**

Project number: **700399,**

Project Title: **Multi-Energy High Resolution Modular Scan System for Internal and External Concealed Commodities, MESMERISE, 2016-2019,** partner coordinator

**European Science Foundation, Eurocores Programme European Collaborative Research**

Project number: **FP-003: 2009-2013**

Project title: **The Academic Profession in Europe: Responses to Societal Challenges (EUROAC),** Principal Investigator

**European Program: STAR-NET** – Stimulate the participation of organizations from Member States and candidate countries in information technology in the Framework Programme FP 6 **EUROPEAN IST**, no 015742; 2005-2006, grant holder

**EU – Grant - Evaluation of Sustainability**, 5-14 Sept 2007 Krakow, Poland, Financed by the European Union Marie Curie Conferences and Training Courses, EASY-ECO 2005-2007, contract no. MSCF-CT-2004-516613, grant holder

Grant **NEXUS** „Cooperation in industry-oriented research in an enlarged Europe”, March 2007, The Nexus Association Switzerland, grant holder

**TEMPUS** EQADE „Embedding Quality Assurance in Doctoral Education” (516891-TEMPUS-1-2011-DE-TEMPUS-SMGR), 2011-2014, partner coordinator

**EUROPEAN COMMISSION- RESEARCH DIRECTORATE-GENERAL** project **MORE-II** N°-RTD-2010-S236-359211 Support for continued data collection and analysis concerning mobility patterns and career paths of researchers, 2012-2013, Principal Investigator

**Senior researcher**

**COST** 636 Xenobiotics in the urban water cycle, 2005 1<sup>st</sup> Stage, 2005-2007

**PARTNERSHIPS - NATIONAL PROGRAMME 2007-2010**, Adaptive bio-mimetic sonar heads for autonomous vehicles, CNMP 12079/2008

**PARTNERSHIPS - NATIONAL PROGRAMME 2007-2010**, Archaeometric Expert System for Intelligent Prevention against trafficking values of the cultural-historical heritage, CNMP 81-040/2007

**TACIS- PHARE-** Integrated monitoring of environmental media (air, water, soil) in the Lower Danube Euroregion, Galati-Cahul area RO 2004/016-941.01.01.04

**Technical Education on Resource Savings for Industrial Development (TERSID)517361-TEMPUS-1-2011-1-IT-TEMPUS-JPHES**, 2011-2014

**MIS ETC 1676 cu titlul:** „Cross-border interdisciplinary cooperation for the prevention of natural disasters and mitigation of environmental pollution in Lower Danube Euroregion”, **19.12.2013 - 18.10.2015**,

**Romania-Ukraine-Republic of Moldova Joint Operational Programme**

**BSB27** “ Black Sea Basin interdisciplinary cooperation network for sustainable joint monitoring of environmental toxicants migration, improved evaluation of ecological state and human health impact of harmful substances, and public exposure prevention (MONITOX)”, **Sea basin strategy: Black Sea Operational Programme 2014-2020.**