

Curriculum Vitae

Personal information

Surname(s) / First name(s) **MORARU Luminița**

Address(es) 56 Alexandru cel Bun St, 800192, Galati, Romania

Telephone(s) +40 745 649 014

Fax(es) +40 0336 130 286

E-mail luminita.moraru@ugal.ro

Nationality Romanian

Date of birth 21.03.1963

Gender Female

Expertise Medical Engineering, Signal & Medical imaging processing, Diagnostic tools, Algorithms and Artificial Neural Networks Simulation and Modelling tools, Materials Science and Nanomaterials/Acoustical engineering

Desired employment / Occupational field **CNATDCU / Engineering Sciences Field / Commission: Chemical Engineering, Medical Engineering, Materials Science and Nanomaterials / Member**

Work experience

08.2007 – present

PhD advisor

University Dunarea de Jos of Galati, 47 Domneasca St, 800008 Galati

Scientific coordination of PhD students, editing scientific papers, assessing PhD theses

PhD theses completed: 11; PhD students in stage: 3

10.2007 – present

Senior expert of National and International Research Agencies

04.2005 – present

Professor

10.1997

PhD in Engineering Sciences, Technical Acoustics

Project proposals evaluation experience

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

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

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

2019 **Competition within the Core Program/ Advanced Materials and Eco – Nano–Technologies** (financed by Ministry of Research and Innovation) - 9 projects

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 Galați Romania
Teaching activity (courses) for bachelor and master students; coordinating master / bachelor theses
Field of interest: Medical engineering; Medical laboratory technology; Signal & Medical 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 Galați 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 Galați 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 Galați 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 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 (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**

Self-assessment
 European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Advanced user	B2	Advanced user	B1	Independent user	B2	Independent user	B2	Advanced user
A2	Intermediate user	A2	Intermediate user	A2	Intermediate user	A2	Intermediate user	A2	Intermediate user

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 15
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 1st 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.**

STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE - DEZVOLTARE

COMISIA DE INGINERIE CHIMICĂ, INGINERIE MEDICALĂ, ȘTIINȚA MATERIALELOR ȘI NANOMATERIALE

Profesor dr. ing. Luminita Moraru

Nr	Lucrari (selectie incepand cu anul 2011)	FI	Nr autori	NTOP	NC
1	Dorin Bibicu and Luminita Moraru , Cardiac cycle phases estimation in 2D echocardiographic images using Artificial Neural Networks, IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING (T-BME), 60 (5):1273-1279, 2013 WOS:000318160500013	4,491	2	1	11
2	Luminita Moraru , Dorin Bibicu, Anjan Biswas, Standalone functional CAD system for multi-object case analysis in hepatic disorders, Computers in Biology and Medicine, 2013, 43 (2013), pp. 967-974 WOS:000321994800001	2,286	3	1	1
3	Luminița Moraru , Simona Moldovanu, Lucian Traian Dimitrievici, Fuqian Shi, Amira S. Ashour, Nilanjan Dey, Quantitative Diffusion Tensor Magnetic Resonance Imaging Signal Characteristics in the Human Brain: A Hemispheres Analysis, IEEE SENSORS JOURNAL, VOL. 17, NO. 15, AUGUST 1, 2017, pp 4886-4893, WOS:000405691000024	3.076	6	1	3
4	Luminița Moraru , Simona Moldovanu, Lucian Traian Dimitrievici, Nilanjan Dey, Amira S. Ashour, Texture Anisotropy technique in Brain Degenerative Diseases, Neural Computing and Applications, Volume 30, Issue 5, 1 September 2018, Pages 1667-1677 DOI 10.1007/s00521-016-2777-7 WOS:000442107400022	4,664	5	1	7
5	Luminița Moraru , Simona Moldovanu, Lucian Traian Dimitrievici, Nilanjan Dey, Amira S. Ashour, Fuqian Shi, Simon James Fong, Salam Khang, AnjanBiswas Gaussian mixture model for texture characterization with application to brain DTI images Journal of Advanced Research 16 (2019) 15–23 WOS:000460683800002	5,045	9	1	0
	Lucrari (selectie incepand cu anul 2011)	FI	Nr autori	NP	NC
6	S. Moldovanu, L. Moraru , D. Bibicu, Characterization of myocardium muscle biostructure using first order features, Digest Journal of Nanomaterials and Biostructures, Vol. 6, No 3, July - September 2011 WOS:000297986100054	1,200	3	1	15
7	Dorin Bibicu, Luminita Moraru , Anjan Biswas, Thyroid nodule recognition based on feature selection and pixel classification methods,	2,572	3	1	25



	Journal of Digital Imaging , Volume 26, Issue 1 (2013), Page 119-128 WOS:000314040500015				
8	Moraru, Luminita ; Moldovanu, Simona Comparative study on the performance of textural image features for active contour segmentation SCIENCE CHINA-LIFE SCIENCES Volume: 55 Issue: 7 Pages: 637-644 Published: JUL 2012 WOS:000307291200009	3.583	2	1	3
9	Moraru, Luminita ; Cotoi, Ovidiu; Szendrei, Florica EULER NUMBER: A METHOD FOR STATISTICAL ANALYSIS OF ANCIENT POTTERY POROSITY EUROPEAN JOURNAL OF SCIENCE AND THEOLOGY Volume: 7 Issue: 3 Pages: 99-108 Published: SEP 2011 WOS:000294446800009	0,389	3	1	6
10	Mirela (Visan) Punga, Rahul Gaurav and Luminita Moraru , Level set method coupled with Energy Image features for brain MR image segmentation, Biomedical Engineering / Biomedizinische Technik, ISSN: 0013-5585, DOI 10.1515/bmt-2013-0111, 2014, Volume: 59 Issue: 3 Pages: 219-229 WOS:000337161100006	1.458	3	1	11
11	Luminita Moraru , Simona Moldovanu, Anjan Biswas, Optimization of Breast Lesion Segmentation in Texture Feature Space Approach, Medical Engineering & Physics, Volume 36, Issue 1, 124-130. (2014) WOS:000330261200018	1,825	3	1	12
12	Dorin Bibicu, Luminita Moraru , Anjan Biswas. Efficient Segmentation using Active Contours embedded in an Image Feature, Journal of Medical Imaging and Health Informatics, 5(2), 241-247 (2015) WOS:000352531300009	0,877	3	1	4
13	Simona Moldovanu, Luminita Moraru , Anjan Biswas, Robust Skull Stripping Segmentation Based on Irrational Mask for Magnetic Resonance Brain Images, JOURNAL OF DIGITAL IMAGING. 2015, DOI: 10.1007/s10278-015-9776-6, Volume 28, Issue 6 (2015), Page 738-747 WOS:000364521800012	1,406	3	1	9
14	Simona Moldovanu, Luminita Moraru , Anjan Biswas, EDGE-BASED STRUCTURAL SIMILARITY ANALYSIS IN BRAIN MR IMAGES, Journal of Medical Imaging and Health Informatics, Volume: 6 Issue: 2 Pages: 539-546 Published: APR 2016 WOS:000374145800032	0.877	3	1	3
15	Luminita Moraru , Simona Moldovanu, Mirela (Vişan) Punga, Stephen Johnson and Anjan Biswas, Exploiting distance metrics-based similarity for spatial features analysis: Application to brain MR images". Maejo International Journal of Science and Technology (Maejo Int. J. Sci. Technol.) 2016, 10(02), 220- 232, WOS:000383727200009	0.481	5	1	0
16	Moraru, Luminita ; Obreja, Cristian Dragos; Moldovanu, Simona; Ene, Antoaneta, Biswas Anjan Blood pressure and flow values in small vessels angioarchitectures: application for diabetic retinopathy ROMANIAN JOURNAL OF PHYSICS Volume: 61 Issue: 7-8 Pages: 1287-1298 2016 WOS:000385603700014	1.460	5	1	1
17	Luminita Moraru , Simona Moldovanu, Anisia-Luiza Culea-Florescu, Dorin Bibicu, Amira S. Ashour, Nilanjan Dey, Texture Analysis of Parasitological Liver Fibrosis Images, Microscopy Research and Technique, Microscopy Research and Technique, Volume: 80 Issue: 8 Pages: 862-869 Published: AUG 2017 WOS:000406242500006	1,327	6	1	8
18	Moraru, L. , Moldovanu, S., Culea-Florescu, A.-L., Bibicu, D., Dey, N., Ashour, A. S. and Sherratt, S. Texture spectrum coupled with entropy and homogeneity image features for myocardium muscle characterization. Current Bioinformatics. (2018) VOLUME: 14 , ISSUE: 4, 2019, Page: [295 - 304] WOS:000463989600003	1,189	7	1	0
19	Emilian Dănilă, Luminita Moraru , Nilanjan Dey, Amira S. Ashour, Fuqian Shi, Simon James Fong, Salam Khan, Anjan Biswas, Multifractal Analysis of Ceramic Pottery SEM Images in Cucuteni-Tripolye Culture, Optik – International Journal for Light and Electron Optics, Optik 164 (2018) 538–546 WOS:000430996600065	1,914	8	1	2
20	Emilian DANILA, Hahuie VALENTIN, Puiu Lucian GEORGESCU, Luminita MORARU , SURVEY OF FOREST COVER CHANGES BY MEANS OF MULTIFRACTAL ANALYSIS Carpathian Journal of Earth and Environmental Sciences, February 2019, Vol. 14, No. 1, p. 51 - 60; WOS:000454673000005	0,907	4	1	0
21	Jinyan Li; Simon Fong; Lian-sheng Liu; Nilanjan Dey; Amira Ashour; Luminita Moraru Dual Feature Selection and Rebalancing Strategy using Meta-Heuristic Optimization Algorithms in X- Ray Image Datasets Multimedia Tools and Applications, Multimed Tools Appl (2019). 78:20913–20933 WOS:000480461400017	2,101	6	1	2
22	Moraru, L. , Moldovanu, S., Culea-Florescu, A.-L., Bibicu, D., Dey, N., Ashour, A. S. and Sherratt, S. Texture spectrum coupled with entropy and homogeneity image features for myocardium muscle characterization. Current Bioinformatics, 2019, 14, 295-304 WOS:000463989600003	1,189	7	1	0
		FIC 44,317		NP 22	NC 123
23	Michelle Savescu, Kaisar R. Khan, Preeti Naruka, Hossein Jafari, Luminita Moraru , Anjan Biswas, Optical Solitons in Photonic Nano Waveguides with an Improved Nonlinear Schrödinger's Equation,	1,032/6 =0,172	6	0	76

	Journal of Computational and Theoretical Nanoscience (J. Comput. Theor. Nanosci.) 10, 1182 -1191 (2013) WOS:000320569600020				
24	Michelle Savescu, Kaisar R. Khan, Russell W. Kohl, Luminita Moraru , Ahmet Yildirim, and Anjan Biswas, Optical Soliton Perturbation with Improved Nonlinear Schrödinger's Equation in Nano Fibers Journal of Nanoelectronics and Optoelectronics (J. Nanoelectron. Optoelectron.) 8, 208-220 (2013) WOS:000318888200012	0,588/6 =0,098	6	0	91
25	Yanan Xu, Zlatko Jovanoski, Abdelaziz Bouasla, Houria Triki, Luminita Moraru and Anjan Biswas. Optical solitons in multi-dimensions with spatio-temporal dispersion and non-Kerr law nonlinearity Journal of Nonlinear Optical Physics and Materials (JNOPM) – Vol. 22, No. 3 (2013) 1350035 - 1:30 (30 pages), WOS:000326347500012	0,640/6 =0,106	6	0	16
26	Anjan BISWAS, Abdul H. KARA, Luminita MORARU , Ashfaq H. BOKHARI, F.D. ZAMAN, Conservation laws of coupled Klein-Gordon equations with cubic and power law nonlinearities, PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, Volume 15, Number 2/2014, pp. 123–129 WOS:000336714400003	1,658/5 =0,331	5	0	31
29	Bharat BHOSALE, Luminita MORARU , Bouthina S. AHMED, David RISER, Anjan BISWAS, Multi-resolution analysis of wavelet like soliton solution of KdV equation, PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, Volume 15, Number 1/2014, pp. 18–26 WOS:000333795600003	1,658/5 =0,331	5	0	6
30	Michelle Savescu, E. M. Hilal, A. A. Alshaery, A. H. Bhrawy, Luminita Moraru , Anjan Biswas, Optical solitons with quadratic nonlinearity and spatio-temporal dispersion, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 16, No. 5-6, May - June 2014, p. 619 - 623, WOS:000338487100019	0,588/6 =0,098	6	0	27
31	P. Razborova, L. Moraru , A. Biswas, Perturbation of Dispersive Shallow Water Waves with Rosenau-Kdv-Rlw Equation and Power Law Nonlinearity, ROMANIAN JOURNAL OF PHYSICS, Rom. Journ. Phys., 2014 Vol. 59, Nos. 7–8, P. 658–676	1,460/3 =0,486	3	0	44
32	A. Alshaery, E. M. Hilal, M. A. Banaja, Sadah A. Alkhateeb, Luminita Moraru & Anjan Biswas, Optical solitons in multiple-core couplers, Journal of Optoelectronics and Advanced Materials (JOAM), Vol. 16, No. 5-6, May - June 2014, p. 750 – 758 WOS:000338487100040	0,429/6 = 0,071	6	0	19
33	Qin Zhou, Qiuping Zhu, A. H. Bhrawy, Luminita Moraru , Anjan Biswas, Optical solitons with spatially-dependent coefficients by Lie symmetry, OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS, Vol. 8, No. 7-8, July – August 2014, p. 800 – 803, 2014 WOS:000340577900035	0,452/6 =0,090	5	0	47
34	Ghodrat Ebadi, Aida Mojaver, Jose Vega-Guzman, Kaisar R. Khan, Mohammad F. Mahmood, Luminita Moraru , Anjan Biswas, Milivoj Belic, Solitons in optical metamaterials by F-expansion scheme. OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS, Vol. 8, No. 9-10, September – October 2014, p. 828 – 832 WOS:000343844700002	0,452/8 =0,056	8	0	29
35	Zhou, Q., Zhu, Q., Wei, C., Jun Lu, Moraru, L. , Biswas, A., Optical solitons in photonic crystal fibers with spatially inhomogeneous nonlinearities, Journal of Optoelectronics and Advanced Materials (JOAM), Vol. 8, No. 11-12, Nov. – Dec. 2014, p. 995 – 997 WOS:000347510200001	0,588/6 =0,098	6	0	15
36	Bhrawy, A. H.; Alshaery, A. A.; Hilal, E. M.; Milovic, D; Moraru, L. ; Savescu, M; Biswas, A Optical Solitons with Polynomial and Triple-Power Law Nonlinearities and Spatio-Temporal Dispersion PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE Volume: 15 Issue: 3 Pages: 235-240 Published: JUL-SEP 2014 WOS:000341803400003	1,658/7 =0,236	7	0	42
37	Q. Zhou, Q. Zhu, A. H. Bhrawy, L. Moraru , A. Biswas, Bright-Dark combo optical solitons with non-local nonlinearity in parabolic law medium, OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS , VOL. 8, NO. 9-10, SEPTEMBER – OCTOBER 2014, P. 837 – 839 WOS:000343844700004	0,394/5 =0,078	5	0	45
38	Jose Vega-Guzman, A. A. Alshaery, E. M. Hilal, A. H. Bhrawy, M. F. Mahmood, Luminita Moraru , & Anjan Biswas, Optical soliton perturbation in magneto-optic waveguides with spatio-temporal dispersion, Journal of Optoelectronics and Advanced Materials (JOAM), Vol. 16, No. 9-10, September - October 2014, p. 1063 – 1070, WOS:000343844900010	0,588/7 =0,084	7	0	19
39	M. Savescu, Ali H. Bhrawy, E. M. Hilal, A. A. Alshaery, L. Moraru , A. Biswas, Optical solitons in birefringent fibers with four - wave mixing for parabolic law nonlinearity OAM-RC OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS Vol. 9, No. 1-2, January – February 2015, p. 10 – 13 WOS:000350006100003	0,452/6 =0,075	6	0	34
40 top 25% (zona roșie)	Jose Vega-Guzman, E. M. Hilal, A. A. Alshaery, A. H. Bhrawy, M. F. Mahmood, Luminita Moraru , Anjan Biswas, THIRING OPTICAL SOLITONS WITH SPATIO-TEMPORAL DISPERSION, PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, Volume 16, Number 1/2015, pp. 41–46 WOS:000350946500006	1,735/7 =0,247	7	0	35

41 top 25% (zona roșie)	Ozkan GUNER, Ahmet BEKIR, Luminita MORARU , Anjan BISWAS, Bright and Dark Soliton Solutions of the Generalized Zakharov-Kuznetsov-Benjamin-Bona-Mahony Nonlinear Evolution Equation, PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, Volume 16, Number 3/2015, pp. 422–429 WOS:000362155800004	1,735/4 =0,433	4	0	15
42	Jose Vega-Guzman, E. M. Hilal, A. A. Alshaery, A. H. Bhrawy, M. F. Mahmood, Luminita Moraru , Anjan Biswas, THIRRING OPTICAL SOLITONS WITH SPATIO-TEMPORAL DISPERSION, PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, Volume 16, Number 1/2015 41–46 WOS:000350946500006	1,735/7 =0,247	7	0	31
43	Ozkan GUNER, Ahmet BEKIR, Luminita MORARU , Anjan BISWAS, Bright and Dark Soliton Solutions of the Generalized Zakharov-Kuznetsov-Benjamin-Bona-Mahony Nonlinear Evolution Equation, PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, Volume 16, Number 3/2015, pp. 422–429 WOS:000362155800004	1,735/4 =0,433	4	0	13
44	Michelle Savescu, Qin Zhou, Luminita Moraru , Anjan Biswas, Seithuti P. Moshokoa, Milivoj Belic Singular optical solitons in birefringent nano-fibers Optik 127 (2016) 8995–9000 WOS:000389102500105	1,191/6 =0,198	6	0	15
45	Anjan BISWAS, Abdul H. KARA, Luminita MORARU , Houria TRIKI, Seithuti P. MOSHOKOA Shallow water waves modeled by the Boussinesq equation having logarithmic nonlinearity PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, Volume 18, Number 2/2017, pp. 144–149 WOS:000406324400007	1,632/6 = 0,272	6	0	4
46	A.H. Kara; Anjan Biswas; Qin Zhou; Luminita Moraru ; Seithuti P Moshokoa; Milivoj Belic Conservation laws for optical solitons with CHEN–LEE–LIU equation Optik-International Journal for Light and Electron Optics Volume 174, December 2018, Pages 195-198 WOS:000447247700027	1,914/6 =0,319	6	0	6
47	Fuqian Shi, Dan Wang; Zairan Li; Nilanjan Dey; Amira S Ashour; Luminita Moraru ; Anjan Biswas; Optical pressure sensors based plantar image segmenting using an improved fully convolutional network Journal: Optik – International Journal for Light and Electron Optics, Volume 179, February 2019, Pages 99-114 WOS:000464491400013	1,914/7 = 0,273	7	0	3
TOTAL		FIC 4,832	-	NP	NC 664
		49,149	-	22	787

	NTOP	NT (selectie)	FIC	NP	NC
Luminita MORARU	5	47	49,149	22	787
Criterii CNATDCU Profesor	≥4	-	≥30	≥20	≥120

Legenda: NTOP = număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal.

FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)

NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)

NC = număr total de citări (din baza SCOPUS) (se exclud autocitările candidatului)

NT=numar total articole ISI

NCO = 4 număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terți în valoare minimă echivalentă cu 10.000 Euro

Criteriu CNATDCU Profesor NCO ≥ 1 (în calitate de Director proiect)

1. **RESPONSABIL** partener /Director -Multi-Energy High Resolution Modular Scan System for Internal and External Concealed Commodities MESMERISE (**suma proprie 197.812 Euro**) 2016-2019, 1. Horizon 2020, Call: H2020-BES-2015, Topic: BES-08-2015, Type of action: RIA
2. **RESPONSABIL** partener/Director -Proiect 08-EuroHESC-FP-003: The Academic Profession in Europe: responses to societal challenges (EUROAC). Finantare ESF/EUROHESC (CNCSIS- 3EUROC/2010) (**suma proprie 90.000 Euro**)
3. Director partener/People Work Programme of the 7th Framework Programme- Support for continued data collection and analysis concerning mobility patterns and career paths of researchers, EPR European Partnership for Researchers, RESEARCH DIRECTORATE-GENERAL, Directorate C: European Research Area – Knowledge Based Economy, RTD/B2/2011-S236-359211, 2011

(suma proprie 15.000 Euro)

4. RESPONSABIL partener/director - Embedding Quality Assurance in Doctoral Education – EQADE
516891-TEMPUS-1-2011-1-DE-TEMPUS-SMGR **(suma proprie 14.000Euro)** 2011-2014

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Data.....

ADEVERINȚĂ,

Prin prezenta se adeverește că dl/dna **Prof. dr. fiz. MORARU Luminița** a fost aprobat(ă), prin Hotărârea Consiliului de Administrație al Universității „Dunărea de Jos” din Galați nr. 23/25.03.2020, ca propunere să facă parte din comisiile de specialitate ale CNATDCU.

Dl/dna **Prof. dr. fiz. MORARU Luminița** este conducător de doctorat, cadru didactic titular al Universității „Dunărea de Jos” din Galați, are experiență proprie de cercetare recunoscută la nivel național și internațional, dovedită și validată prin realizări specifice și prin îndeplinirea standardelor minimale naționale pentru abilitare în domeniu.

Se eliberează prezenta, la cerere, spre a-i servi la încărcarea pe platforma brainmap.ro.

RECTOR,
Prof. dr. ing. **Puiu-Lucian GEORGESCU**