

RAPORT ACTIVITATE ¹

(2020)

1. Datele de identificare ale unității de cercetare

- 1.1. Denumire²: **Laboratorul de Modelare și Simulare SMLab**
- 1.2. Document de înființare: Hotărârea Senatului universitar 17/13 iulie 2017
- 1.3. Pagina web (limba romana, limba engleză):
<https://erris.gov.ro/-Modelling--Simulation-Labor>
https://ugal.ro/files/cercetare/2020/9/2_MSN_09_09_2020.pdf
<https://orcid.org/0000-0002-9121-5714>
- 1.4. Adresa: Str Domneasca nr 111, corp cladire SB, cam 304
- 1.5 Telefon, fax, e-mail: luminita.moraru@ugal.ro

2. Scurta prezentare

- 2.1. Domeniul fundamental/ramura de știință³: Matematică și științe ale naturii/Fizica
- 2.2 Directii de cercetare-dezvoltare/obiective de cercetare/priorități de cercetare
 - a. domenii principale de cercetare-dezvoltare-inovare;
 - metode computationale dedicate procesarii imaginilor medicale (reconstructie/imbunatatire/analiza)
 - Imagistica medicală: Cercetări privind prelucrări de imagini medicale și interpretarea lor în vederea identificării de patologii. Dezvoltarea de aplicații CAD pentru susținerea activităților de diagnosticare;
 - Procesarea de imagini: segmentarea și clasificarea imaginilor medicale pentru identificarea obiectelor biologice de interes prin metode combinate de tehnici de procesare și ‘patern recognition’;
 - metode de deep learning (supervizate si ne supervizate);
 - Dezvoltarea tehnologiilor în domeniul ultra- și infrasunetelor în medii stratificate pentru detectarea și recunoașterea obiectelor interzise cu potenția de risc major/securitate.
 - b. domenii secundare de cercetare-dezvoltare-inovare;
 - Simulări numerice.
 - Analize numerice si statistice.
 - Crearea de baze de date complexe pentru tipuri de patologii analizate.
 - Statistică aplicată în ingineria medicală; analiza propagării si imprastierii infrasunetelor/ultrasunetelor.
 - Detectia centrilor de imprastiere/reconstructii de suprafete vibrante/
 - ANFH Acoustic Near Field Holography
 - c. servicii / microproductie.
 - Algoritmi CAD (Computer Aided Diagnostic)
 - Retele Neuronale Artificiale foloste ca instrumente de predicție obiectivă in domeniul medicinei
 - Consultanta in domeniul prelucrării semnalului si imaginii digitale, filtrare digitala, algoritmi pentru procesarea semnalelor, metode numerice, senzori

¹ Se întocmește și se predă anual.

² Inclusiv acronim.

³ In acord cu Hotărârea nr. 376/2016 privind aprobarea Nomenclatorului domeniilor și al specializărilor/programelor de studii universitare și a structurii instituțiilor de învățământ superior pentru anul universitar 2016-2017

- Instruire în domeniile procesării semnalelor digitale, filtrării digitale, metodelor matematice de prelucrare a semnalelor, statisticilor aplicate
Procesarea imaginilor medicale complexe pentru analiza detaliată.
- Asigurarea suportului științific și tehnologic pentru dezvoltarea de software de analiză.
- Modelări numerice și optimizări în medii stratificate.
- Instruire studenți, masteranzi, studenți doctoranzi în activități ce includ prelucrări de imagini, baze de date medicale, tehnici de analiză și recunoaștere a formelor, caracteristicilor, detectarea de obiecte etc.

3. Structura de conducere a centrului

3.1 Coordonator (Director/Responsabil) Prof. Dr. Ing. Fiz. Luminita Moraru

3.2 Consiliul de conducere/științific Prof.dr.ing.fiz. habil Antoaneta Ene

S.L. dr. Mat. Moldovanu Simona

4. Structura resursei umane

Numărul total de membri, din care:

- a. Număr membri titulari: **3**
- b. Număr membri asociați: **3**
- c. Conducători de doctorat⁴: **2**
- d. Număr de tineri cercetatori (postdoctoranzi, doctoranzi, masteranzi etc): **4**
- e. Număr ingineri/tehnicieni: **2** (laborant Dragoi Luminita, ing. Patrascu Dan)

5. Infrastructura de cercetare-dezvoltare, facilități de cercetare

5.1. Laboratoare⁵

Compartimentul de Modelare

-metode computationale dedicate procesarii imaginilor medicale (reconstructie/imbunatatire/analiza)

Responsabil: Moraru Luminita

Ene Antoaneta

Moldovanu Simona

Dimitrievici Lucian-dr

Stan Maria -drd

LAZARESCU ANDREEA - drd

MICHIȘ N. FELICIA-ANIȘOARA(DAMIAN)-drd

TOPORAȘ C. LENUȚA (PANĂ)- drd

Obreja Cristian Dragos- postdoc

Compartimentul de Simulare

- Simulări numerice.

- Analize numerice si statistice.

Responsabil: Bibicu Dorin

Moldovanu Simona

Stan Maria-drd

⁴ Nume, prenume, domeniul de doctorat.

⁵ Se vor nominaliza laboratoarele, responsabilul si principale direcțiile de cercetare.

5.2. Echipamente, instalații și software de interes național pentru cercetare fundamentală, dezvoltare tehnologică și inovare⁶

- Desktop computer Intel Core i5 (2017)
- Multifunctional printer Lexmark X734de
- Desktop computer
- Laptop (2017)
- Local network
- Internet access
- Matlab 2019b (2019)
- Statistica

6. Contracte de cercetare derulate⁷

6.1. Contracte câștigate în competiții: - internaționale

MESMERISE 700399, -RIA

Title: Multi-Energy High Resolution Modular Scan System for Internal and External Concealed Commodities (http://cordis.europa.eu/project/rcn/203299_en.html)
Domeniul: [BES-08-2015 Security/Suply chain Security](#)

- naționale

6.2. Contracte cu agenți economici: - din străinătate - din țară

7. Rezultatele activității de cercetare, dezvoltare și inovare (CDI)

7.1. Rezultate ale activității CDI (cercetare fundamentală și aplicativă)⁸

		Nr.
7.1.1	Lucrări publicate în reviste cotate ISI	18
7.1.2	Factor de impact cumulat al lucrărilor cotate ISI 1. Journal: Biocybernetics and Biomedical Engineering, IF=2,159 2. Journal: Current Medical Imaging, IF=0,533 3. Physics Letters A, IF= 2,087 4. Physics Letters A, IF= 2,087	31,732

⁶ Se vor enumera numai acele laboratoare și acele echipamente care au fost folosite în activitatea de cercetare din ultimii 2 ani); Se vor nominaliza 1-2 repere reprezentative la nivel de universitate, regional și național.

⁷ Se vor atașa liste pe categorii care să cuprindă următoarele detalii: nr. contract, titlu, domeniul (care se înscrie în lista domeniilor de cercetare declarate ale UC) de cercetare, director, parteneri (daca este cazul), valoare totală și valoarea regie și valoarea din regie care a fost solicitată pentru întreținerea UC.

⁸ Se vor anexa lista acestor contribuții.

	5. Chinese Journal of Physics, IF = 2,544 6. Journal: Optik – International Journal for Light and Electron Optics IF = 2.187 7. Entropy, IF = 2,419 8. Journal: Optik – International Journal for Light and Electron Optics IF = 2.187 9. Chinese Journal of Physics, IF = 2,544 10. Physics of Wave Phenomena, IF = 0,745 11. Entropy, IF = 2,419 12. Journal of Cleaner Production FI= 7.246 13. Sustainability FI= 2.576	
7.1.3	Citări în reviste de specialitate cotate ISI. (lista in extenso, mai jos)	233
7.1.4	Lucrări științifice/tehnice în reviste indexate în baze de date internaționale	16
7.1.5	Comunicări științifice prezentate la conferințe internaționale	32
7.1.6	Comunicări științifice prezentate la conferințe naționale	0
7.1.7	Brevete de invenție (solicitate / acordate)	0
7.1.8	Citări în sistemul ISI ale lucrărilor de cercetare/ brevete	0
7.1.9	Produse/servicii/tehnologii rezultate din activități de cercetare, bazate pe brevete, omologări sau inovații proprii.	0
7.1.1 0	Studii prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice, noi sau perfecționate, comandate sau utilizate de beneficiar.	0

Lucrări publicate în reviste cotate ISI

1. Deep- segmentation of plantar pressure images incorporating fully convolutional neural networks
Dan Wang, Zairan Li, Nilanjan Dey, Amira S.Ashour, Luminita Moraru, R.Simon Sherratt, Fuqian Shi
Journal: Biocybernetics and Biomedical Engineering,
Volume 40, Issue 1, January–March 2020, Pages 546-558
<https://doi.org/10.1016/j.bbe.2020.01.004>, ISSN 0208-5216

2. Colored Video Analysis in Wireless Capsule Endoscopy: A Survey of State-of-the-Art
Amira Ashour, Nilanjan Dey, Waleed Mohamed, Jolanda Tromp, R. Simon Sherratt, Fuqian Shi, Luminita Moraru
Journal: Current Medical Imaging, 2020, 16, 1-11, ISSN: 1573-4056

3. DARK, SINGULAR AND STRADDLED OPTICAL SOLITONS IN BIREFRINGENT FIBERS WITH GENERALIZED ANTI--CUBIC NONLINEARITY
Mehmet Ekici, Elsayed M. E. Zayed; Mohamed E. M. Alngar; Anjan Biswas; Luminita Moraru; Abdullah Kamis Alzahrani; Milivoj R. Belic
Physics Letters A, ID 126417, Volume 384, Issue 20, 16 July 2020
<https://doi.org/10.1016/j.physleta.2020.126417>

4. OPTICAL SOLITON PERTURBATION WITH KUDRYASHOV'S EQUATION BY SEMI-INVERSE VARIATIONAL PRINCIPLE
Anjan Biswas, Mir Asma, Padmaja Guggilla, Lipika Mullick, Luminita Moraru, Mehmet Ekici, Abdullah K. Alzahrani, Milivoj R. Belic
Physics Letters A - Volume 384, Issue 33, 27 November 2020, 126830, <https://doi.org/10.1016/j.physleta.2020.126830> ISSN: 0375-9601

5. OPTICAL SOLITONS WITH KUDRYASHOV'S MODEL BY A RANGE OF INTEGRATION NORMS
Yakup Yıldırım; Anjan Biswas; Mehmet Ekici; Oswaldo Gonzalez--Gaxiola; Salam Khan; Houria Triki; Luminita Moraru; Abdullah Kamis Alzahrani; Milivoj R. Belic
Chinese Journal of Physics – Volume 66, August 2020, Pages 660-672 doi: 10.1016/j.cjph.2020.06.005, ISSN: 0577-9073

6. Brain tissue evaluation based on skeleton shape and similarity analysis between hemispheres
Pana Lenuta, Simona Moldovanu, Amira Ashour, Nilanjan Dey, Luminita Moraru
Computation 2020, 8 (2), 31; doi:10.3390/computation8020031

7. Feature selection of non-dermoscopic skin lesions images for nevi and melanomas classification

Felicia Anisoara Damian , Simona Moldovanu , Nilanjan Dey , Amira S. Ashour , Luminita Moraru
Computation 2020, 8, 41; doi:10.3390/computation8020041

8. HIGHLY DISPERSIVE OPTICAL SOLITONS IN BIREFRINGENT FIBERS WITH FOUR FORMS OF NONLINEAR REFRACTIVE INDEX BY THREE PROLIFIC INTEGRATION SCHEMES
Mehmet Ekici, Yakup Yıldırım; Anjan Biswas; Elsayed M. E. Zayed; Salam Khan; Luminita Moraru; Abdullah Kamis Alzahrani; Milivoj R. Belic
Journal: Optik – International Journal for Light and Electron Optics, Volume 220, October 2020, 165039,
<https://doi.org/10.1016/j.ijleo.2020.165039>
9. Grey Wolf based Wang’s Demons for Retinal Image Registration
Sayan Chakraborty , Ratika Pradhan , Amira S. Ashour , Luminita Moraru, Nilanjan Dey
Entropy 2020, 22, 659; doi:10.3390/e22060659, ISSN 1099-4300
10. SOLITONS AND CONSERVATION LAWS IN MAGNETO--OPTIC WAVEGUIDES WITH POLYNOMIAL LAW NONLINEARITY
Elsayed M. E. Zayed; Mahmoud M. El--Horbaty; Mohamed E. M. Alngar; Anjan Biswas; Abdul H. Kara; Luminita Moraru; Mehmet Ekici, Abdullah K. Alzahrani; Milivoj R. Belic
Journal: Optik—Volume 223, December 2020, 165397, <https://doi.org/10.1016/j.ijleo.2020.165397>
11. SOLITONS AND CONSERVATION LAWS IN MAGNETO-OPTIC WAVEGUIDES WITH TRIPLE-POWER LAW NONLINEARITY
Elsayed M. E. Zayed; Mohamed E. M. Alngar; Anjan Biswas; Abdul H. Kara; Luminita Moraru; Mehmet Ekici; Abdullah K. Alzahrani; Milivoj R. Belic
Journal of Optics - India (2020). J Opt (December 2020) 49(4):584–590
<https://doi.org/10.1007/s12596-020-00650-2>
12. OPTICAL SOLITONS WITH DIFFERENTIAL GROUP DELAY FOR KUDRYASHOV'S MODEL BY THE AUXILIARY EQUATION MAPPING METHOD
Elsayed M. E. Zayed, Reham M. A. Shohib, Anjan Biswas, Mehmet Ekici, Luminita Moraru, Abdullah Kamis Alzahrani, Milivoj R. Belic
Chinese Journal of Physics,
Volume 67, October 2020, Pages 631-645, <https://doi.org/10.1016/j.cjph.2020.08.022>
13. Optical Solitons with Kudryashov’s Equation by Lie Symmetry Analysis
S. Kumara, S. Malika, A. Biswas, Q. Zhou, L. Moraru, A. K. Alzahrani, and M. R. Belic
Physics of Wave Phenomena, 2020, Vol. 28, No. 3, pp. 299–304.
ISSN 1541-308X,
14. Combining Sparse and Dense Features to Improve Multi-Modal Registration for Brain DTI Images
Simona Moldovanu, Lenuta Pana Toporas, Anjan Biswas and Luminita Moraru
Entropy 2020, 22(11), 1299; doi:10.3390/e22111299
15. Hynes Jesudoss Rajesh, J. Senthil Kumar, Hesam Kamyab, J. Angela Jennifa Sujana, Omar Ali Al-Khashman, Yasemin Kuslu, Antoaneta Ene, B. Suresh, Modern Enabling Techniques and Adsorbents based Dye Removal with Sustainability Concerns in Textile Industrial Sector -A comprehensive review, Journal of Cleaner Production 272, 2020, 122636,
<https://doi.org/10.1016/j.jclepro.2020.122636>.
16. Moraru SS, Ene A., Badila A. Physical and Hydro-Physical Characteristics of Soil in the Context of Climate Change. A Case Study in Danube River Basin, SE Romania. Sustainability 2020;12(21):9174, DOI: 10.3390/SU12219174 0
17. Simionov, Ira-Adeline; Cristea, Victor; Petrea, Stefan-Mihai; Mogodan, Alina; Nica, Aurelia); Strungaru, Stefan-Adrian; Ene Antoaneta; Sarpe, D.A., HEAVY METAL EVALUATION IN THE LOWER SECTOR OF DANUBE RIVER, Scientific Papers-series e-Land Reclamation Earth Observation & Surveying Environmental Engineering 9(2020)11-16.
18. Ene A., Sloata F., XRF analysis of arsenic and selected metals in contaminated sand from the dismantling of industrial distillation plants, Journal of Science and Arts, Year 20, No. 4(53), pp. 1011-1018, 2020, <https://doi.org/10.46939/J.Sci.Arts-20.4-e02>

Lucrări științifice/tehnice în reviste indexate în baze de date internaționale

1. Maria (Stan) Necula, Dorin Bibicu, Luminita Moraru, Cristian-Victor-Eugen Rusu,
Multiple closely spaced scatterers location based MUSIC via inverse scattering amplitude estimation,
ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, MATHEMATICS, PHYSICS, THEORETICAL MECHANICS
FASCICLE II, YEAR XII (XLIII) 2020, No. 1, pp 1-12, DOI: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020>
2. Lenuța Pană, Simona Moldovanu, Luminița Moraru
Differentiation of brain metastases in MRI image using the first- and second-order statistical features
ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, MATHEMATICS, PHYSICS, THEORETICAL MECHANICS
FASCICLE II, YEAR XII (XLIII) 2020, No. 1, pp 20-27 DOI: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020>
3. Felicia Anișoara Damian, Simona Moldovanu, Luminița Moraru
COMPARISON OF DISTANCE METRIC MEASURES IN DIFFERENTIATION OF NON-DERMOSCOPIK SKIN LESIONS

4. M. Stan Necula, D. Bibicu and L. Moraru, Backscattering by closely spaced scatterers using the K matrix data from an active array of N transceivers, Sensors and Electronic Instrumentation Advances, vol 2020, pp7-13
5. "Vision Tracking: A Survey of the State-of-the-Art"
Anjan Dutta; Atreyee Mondal; Nilanjan Dey; Soumya Sen; Luminița Moraru; Aboul Ella Hassanien
SN Computer Science (2020) 1:57
<https://doi.org/10.1007/s42979-019-0059-z>
6. Necula (Stan), M.; Bibicu, D.; Moraru, L. Inverse scattering problem for concealed objects detection, AIP Conference Proceedings 2218, 030007 (2020); <https://doi.org/10.1063/5.0001012>
7. S Moldovanu, F. Damian, L Moraru
"An invisible DWT watermarking algorithm using noise removal with application to dermoscopic images", 9th Int'l Conference on Mathematical Modelling in Physical Sciences, September 7-10, 2020 , Tinos island, Greece (publication Journal of Physics: Conference Series (JPCS))
8. VALERIAN NOVAC, Luminita MORARU, Florin ONEA, Eugen RUSU
BALLAST WATER MANAGEMENT IN THE BLACK SEA BASIN
Conference: 20th International Multidisciplinary Scientific GeoConference Proceedings SGEM 2020 September 2020
DOI: 10.5593/sgem2020/3.1/s15.104
9. Căpriță Florina Cristiana, **Ene Antoaneta**, 2020, Biosorption of Heavy Metals from the Metallurgical Industry Wastewater by Macroalgae, AIP Conference Proceedings 2218, 030011, 2020, <https://doi.org/10.1063/5.0001087>
10. Ene Antoaneta, Mihaela-Aida Vasile, Gabriela Bahrim, Study of microbiological contamination level of surface water in MONITOX network areas before and after COVID-19 pandemic, Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 2020, Volume 43, No. 2, 75-81, <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.01>.
11. Arbaș (Moraru), S., Ene, A. (2020) "Nutrient Stocks Study in Agroecosystems Located near the Steel Industry, Galati, Romania Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 43(2), pp. 82-93. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.02>.
12. Cioroi, M., Ene, A. A study on drinking water quality in SE Romania, Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 43(2) (2020) 108-114. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.05>.
13. Sion A., Gosav, S., Ene, A., ATR-FTIR qualitative mineralogical analysis of playground soils from Galati city, SE Romania", Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 43(2), (2020) 141-146. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.10>.
14. Spiridon, C., Burada, A., Teodorof, L., Despina, C., Seceleanu- Odor, D., Tudor, M. and Ene, A., Chlorophyll a and total nutrients distribution from surface waters in Romanian MONITOX network in 2019 and 2020, Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 43(2), (2020) 184-189. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.17>.
15. Teodorof L., Burada A., Despina C., Seceleanu-Odor D., Spiridon C., Tiganus M., Tudor I.-M., Tudor M., Ene A., Zubcov E., Spanos T., Bogdevich O., Sediments quality assessment in terms of single and integrated indices from Romanian MONITOX network (2019 – 2020), Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, 43(2) (2020) 175-183, doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.16>.
16. Simona Moldovanu, Diana Stefanescu, Felicia Damian, Watermarking skin lesion digital color images based on channels, 24th International Conference on System Theory, Control and Computing (ICSTCC), DOI: 10.1109/ICSTCC50638.2020.9259631 ,2020 IEEE, pp. 933-936

Comunicări științifice prezentate la conferințe internaționale

1. Maria (Stan) Necula Dorin Bibicu Luminita Moraru
Backscattering by closely spaced scatterers using the K matrix data from an active array of N transceivers
16th International Conference on Sensors and Electronic Instrumentation Advances (SEIA' 2020), 23-25 September 2020. Porto, Portugal
2. S Moldovanu, F. Damian, L Moraru
An invisible DWT watermarking algorithm using noise removal with application to dermoscopic images"
9th Int'l Conference on Mathematical Modelling in Physical Sciences, September 7-10, 2020 , Tinos island, Greece
3. Moldovanu Simona, Moraru Luminița, Pana Lenuta
Brain Tissue Evaluation Based on Skeleton Shape and Similarity Analysis between Hemispheres
8th International Conference on Experiments / Process / System Modeling / Simulation / Optimization

4. BALLAST WATER MANAGEMENT IN THE BLACK SEA BASIN,
VALERIAN NOVAC, Luminita MORARU, Florin ONEA, Eugen RUSU
XXth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM
2020, online, Rescheduled: 16 - 25 August, 2020
1. Simona Moldovanu, Felicia Anișoara Damian, Lenuța Pană, Luminița Moraru
Machine Learning and Artificial Intelligence for health monitoring
International Conference "Environmental Challenges in the Black Sea Basin: Impact on Human Health" Galati, Romania, September
23-26, 2020, SECTION 4. Health and environmental education, innovative solutions to improve scientific information dissemination,
pp.47
 2. Valerian Novac, Eugen Rusu, Luminița Moraru, Gheorghe Stăvărache
Queen Hind Naval Accident – Causative Factors Analysis
Scientific Conference of Doctoral Schools SCDS-UDJG "Perspectives and challenges in doctoral research", 8th Edition, "Dunarea de
Jos" University of Galati, 18-19 of June 2020
 3. Obreja Cristian-Dragoș, Luminița Moraru
Centerline Extraction using Vessel Segmentation over Retinal Images of the Human Eye
Scientific Conference of Doctoral Schools SCDS-UDJG "Perspectives and challenges in doctoral research", 8th Edition, "Dunarea de
Jos" University of Galati, 18-19 of June 2020
 4. Dorin Bibicu, Maria (Stan) Necula, Luminița Moraru, Cistian-Victor-Eugen Rusu
MULTIPLE CLOSELY SPACED SCATTERERS LOCATION BASED MUSIC VIA INVERSE SCATTERING AMPLITUDE
ESTIMATION
Scientific Conference of Doctoral Schools SCDS-UDJG "Perspectives and challenges in doctoral research", 8th Edition, "Dunarea de
Jos" University of Galati, 18-19 of June 2020
 5. Lenuța Pană, Simona Moldoveanu, Luminița Moraru
DIFFERENTIATION OF BRAIN METASTASES IN MRI IMAGE USING THE FIRST- AND SECOND-ORDER STATISTICAL
FEATURES
Scientific Conference of Doctoral Schools SCDS-UDJG "Perspectives and challenges in doctoral research", 8th Edition, "Dunarea de
Jos" University of Galati, 18-19 of June 2020
 6. Felicia Anișoara Damian, Simona Moldovanu, Luminița Moraru
Comparison of distance metric measures in differentiation of non-dermoscopic skin lesions
Scientific Conference of Doctoral Schools SCDS-UDJG "Perspectives and challenges in doctoral research", 8th Edition, "Dunarea de
Jos" University of Galati, 18-19 of June 2020
 7. **Ene Antoaneta**, Thomas Spanos, Elena Zubcov, Oleg Bogdevich, Liliana Teodorof, Laurentia Ungureanu, Igor Nicoara, Adrian
Burada, Cristina Despina, Christina Xatzichristou, Natural radioactivity and risk to population in selected recreational and beach
sites from Black and Aegean Seas in Romania and Greece, MONITOX International Conference "Environmental Toxicants in
Freshwater and Marine Ecosystems in the Black Sea Basin", Kavala, GREECE, September 8th-11th, 2020, 33, S1.16, IL.B.1
 8. **Ene Antoaneta**, Liviu Vodarici, Active measurement methods of indoor radon and thoron in selected spaces in Galati town,
MONITOX International Conference "Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin",
Kavala, GREECE, September 8th-11th, 2020,34, S1.17, IL.B.6
 9. **Ene Antoaneta**, Eugenia Pascu, Iulian Racovita, Ionut Marin, Sveta Voda, Alina Apetrei (Tudorache), Oana Istrate, Daniela
Dumitrita Padurariu (Sarbu), Monitoring outdoor radiation doses in areas of the Black Sea and Aegean Sea Basins, MONITOX
International Conference "Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin", Kavala,
GREECE, September 8th-11th, 2020, 35, S1.18, P.B.5
 10. **Ene Antoaneta**, Florina Cristiana Caprita, Ana Pantelica, Alina Ceoromila, Investigation of major and trace elements in marine
algae and filter paper with algae mass additions using SEM-EDX and PIXE, MONITOX International Conference "Environmental
Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin", Kavala, GREECE, September 8th-11th, 2020, 83, S3.06,
P.B.10
 11. Gosav Steluta, **Antoaneta Ene**, ATR-FTIR method applied to identification of plastics, MONITOX International Conference
"Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin", Kavala, GREECE, September 8th-11th,
2020, 84, S3.07, P.B.11
 12. **Antoaneta Ene**, Elena Zubcov, Thomas Spanos, Oleg Bogdevich, Liliana Teodorof, Yuriy Denga, Marina Frontasyeva,
Claudia Stihi, Ana Pantelica, Octavian Dului, International interdisciplinary cooperation for monitoring of inorganic and radioactive
toxicants in the Lower Danube Euroregion, Black and Aegean Seas Basins, International Conference "Environmental Challenges in
the Black Sea Basin: Impact on Human Health", Galati, Romania, September 23-26, 2020, p.6
 13. **Antoaneta Ene**, Ana Pantelica, Marina Frontasyeva, Florin Sloata, Low-background high resolution gamma-ray spectrometry
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7.2. Teze de doctorat finalizate și în derulare⁹

1. Titlul tezei: Imprastierea acustica pe sisteme complexe: cilindri, sferoizi rigizi si elastici. Aproximarea solutiilor pentru regimurile de camp apropiat si indepartat
Doctorand Necula (Stan) Maria
Conducător științific, Prof. univ. dr. ing. fiz. Luminița Moraru
2. Titlul tezei: Prognoza impactului energiilor alternative in raport cu sursele de energie conventionale
Doctorand CARANFIL VICTORIA
Conducător științific principal, Prof. univ. Dr. Ing. RUSU EUGEN
Conducator științific secundat (co-tutela) Prof. univ. dr. ing. fiz. Luminița Moraru
3. Titlul tezei: Aplicatii ale tomografiei computerizate cu fascicol conic in medicina dentara
Doctorand Andrei Victor Marinescu, Universitatea de Medicina si Farmacie „Carol Davila” din Bucuresti
Conducător științific principal, Prof. univ. Md. Dr. Andreea Didilescu
Conducator științific secundat (co-tutela) Prof. univ. dr. ing. fiz. Luminița Moraru
4. Titlul tezei: INSTRUMENTE MODERNE DE DEPISTARE A MELANOAMELOR. Aplicație SelfChecker pentru analiza nevilor (melanoamelor) prin intermediul imaginilor digitale
Doctorand MICHÎȘ N. FELICIA-ANIȘOARA(DAMIAN)
Conducător științific, Prof. univ. dr. ing. fiz. Luminița Moraru
5. Titlul tezei: APLICAȚII ALE TEHNICILOR DE SCANARE DWI si DTI PENTRU EVALUAREA RAPIDĂ A MODIFICĂRILOR PARAMETRILOR SPECIFICI ÎN CAZUL AFECȚIUNILOR CEREBRALE
Doctorand TOPORAȘ C. LENUȚA (PANĂ)
Conducător științific, Prof. univ. dr. ing. fiz. Luminița Moraru
6. Titlul tezei: Monitorizarea substanțelor toxice în mediu prin utilizarea tehnicilor analitice performante pentru managementul deșeurilor periculoase
Doctorand Sloată Florin,
conducător Prof. Ene Antoaneta
7. Titlul tezei: Tehnici de învățare automată utilizate în procesarea imaginilor
Doctorand: DINCĂ (LĂZĂRESCU) ANDREEA-MONICA
Conducător științific, Prof. univ. dr. ing. fiz. Luminița Moraru

7.3. Oportunități de valorificare a rezultatelor CDI

- Elaborarea și depunerea de proiecte cu finanțare internațională diversă, în ariile de cercetare cu potențial recunoscut, alocarea de resurse optime pentru implementarea acestora și premiarea echipelor de cercetare cu rezultate bune și foarte bune.

⁹ Se va anexa lista tezelor de doctorat în derulare, cu specificarea titlului, domeniul de doctorat, nume doctorand, nume conducator de doctorat.

- Implicarea directă a tinerilor cercetători în activitățile experimentale și în implementarea proiectelor de cercetare – dezvoltare desfășurate în cadrul parteneriatelor internaționale.
- Contract de colaborare bilateral UDJG- Wenzhou University
- Contract de colaborare bilateral UDJG - Sinhgad Institutes, India
- Contract de colaborare bilateral UDJG - Dr. D. Y. Patil Institute, India

7.4. Rezultate ale activității CDI valorificate și efectele obținute

PN-III-P1-1.1-PRECISI-2020-43865, Optical solitons with Kudryashov's model by a range of integration norms
 By:Yildirim, Y; Biswas, A; Ekici, M; Gonzalez-Gaxiola, O; Khan, S; Triki, H; Moraru, L; Alzahrani, AK; Belic, MR
 CHINESE JOURNAL OF PHYSICS
 Volume: 66, Pages: 660-672, DOI: 10.1016/j.cjph.2020.06.005, Published: AUG 2020

PN-III-P1-1.1-PRECISI-2020-43944
 Dark, singular and straddled optical solitons in birefringent fibers with generalized anti-cubic nonlinearity
 By:Zayed, EME; Alngar, MEM; Biswas, A; Ekici, M; Moraru, L; Alzahrani, AK; Belic, MR
 PHYSICS LETTERS A, Volume: 384, Issue: 20, Article Number: 126417, DOI: 10.1016/j.physleta.2020.126417, Published: JUL 16 2020

PN-III-P1-1.1-PRECISI-2020-43988
 Grey-Wolf-Based Wang's Demons for Retinal Image Registration
 By:Chakraborty, S; Pradhan, R; Ashour, AS; Moraru, L; Dey, N
 ENTROPY, Volume: 22, Issue: 6, Article Number: 659, DOI: 10.3390/e22060659, Published: JUN 2020

PN-III-P1-1.1-PRECISI-2020-44024
 Deep-segmentation of plantar pressure images convolutional neural networks
 By:Wang, D; Li, ZR; Dey, N; Ashour, AS; Moraru, L; Sherratt, RS; Shi, FQ
 BIOCYBERNETICS AND BIOMEDICAL ENGINEERING
 Volume: 40, Issue: 1, Pages: 546-558, DOI: 10.1016/j.bbe.2020.01.004, Published: JAN-MAR 2020

PN-III-P1-1.1-PRECISI-2020-49419
 Optical solitons with differential group delay for Kudryashov's model by the auxiliary equation mapping method
 By:Zayed, EME; Shohib, RMA; Biswas, A; Ekici, M; Moraru, L; Alzahrani, AK; Belic, MR
 CHINESE JOURNAL OF PHYSICS
 Volume: 67, Pages: 631-645, DOI: 10.1016/j.cjph.2020.08.022, Published: OCT 2020

PN-III-P1-1.1-PRECISI-2020-51223
 By:Biswas, A; Asma, M; Guggilla, P; Mullick, L; Moraru, L ; Ekici, M; Alzahrani, AK ; Belic, MR
 PHYSICS LETTERS A
 Volume: 384 , Issue: 33, Article Number: 126830, DOI: 10.1016/j.physleta.2020.126830, Published: NOV 27 20205.

Proiect Cod SMIS: 124539, cu titlul „Burse pentru educația antreprenorială în rândul doctoranzilor și cercetătorilor postdoctorat (BeAntreprenor!)”, finanțat prin FONDUL SOCIAL EUROPEAN, Programul Operațional Capital Uman 2014-2020, Axa prioritară: Educație și competențe, beneficiar: Universitatea „Dunărea de Jos” din Galați, perioada de desfășurare: iunie 2019 – Ianuarie 2021.

Proiect contract nr. 36355/23.05.2019 POCU/380/6/13 - Cod SMIS: 123847, cu titlul „Excelența academică și valori antreprenoriale - sistem de burse pentru asigurarea oportunităților de formare și dezvoltare a competențelor antreprenoriale ale doctoranzilor și postdoctoranzilor ANTREPRENORDOC”, finanțat prin FONDUL SOCIAL EUROPEAN, Programul Operațional Capital Uman 2014-2020, Axa prioritară: Educație și competențe, beneficiar: Universitatea „Dunărea de Jos” din Galați, perioada de desfășurare: mai 2019 – 30 Aprilie 2022.

Proiectului CNFIS-FDI-2020- 0451/2020, cu titlul „Inovare prin excelență CEREX - UDJG”, director Prof. dr. Stanciu Silviu

CNFIS-FDI-2020-0094 Titlul proiectului: Creșterea vizibilității internaționale a Universității ”Dunărea de Jos” din Galați, UGAL20, Director proiect, Prof. univ. dr. habil. Cătălina Iticescu

9. Măsuri privind creșterea capacității activității CDI

-Urmărirea permanentă a call-urilor de finanțare deschise. Se dezvoltă o nouă colaborare pentru depunerea unui proiect H2020 IMI2 – topic 6. În condițiile obținerii finanțării, prin acest proiect se vor deschide 2 noi poziții de tineri cercetători/doctoranzi.

-Colaborare bilaterala cu China, Wenzhou University si India Sinhgad Institutes prin depunerea de proiecte ERASMUS KA 107

10. Măsuri pentru creșterea prestigiului și a vizibilității UC¹⁰

10.1. Dezvoltarea de parteneriate:

- dezvoltarea de parteneriate la nivel național și internațional (cu personalități/ instituții / asociații profesionale) în vederea participării la programele naționale și internaționale specifice;

-Dezvoltarea parteneriatului cu universitatile chineze din Beijing, pe baza colaborarii initiate cu Wenzhou University.

-Dezvoltarea parteneriatului cu universitatile din India pe baza colaborarii initiate cu Sinhgad Institutes si Dr. D. Y. Patil Institute, India

-Dezvoltarea parteneriatului cu Universitatea de Medicina si Farmacie „Carol Davila” din Bucuresti

-Parteneriate dezvoltate pentru participarea la competitia PCCDI 2018-2019:

1. Universitatea din Oradea
2. Institutul National pentru Fizică și Inginerie Nucleară "Horia Hulubei" Măgurele
3. Universitatea de Medicina si Farmacie Carol Davilla, Bucuresti
4. Centrul de diagnostic Pozitron-Diagnosztika, Oradea

- înscrierea UC în platforme naționale și internaționale care promovează parteneriatele;

-SMLAB este membru al clusterului ROHEALTH

- înscrierea UC în rețele de cercetare/asociații profesionale de prestigiu pe plan național/internațional;
- personalități științifice ce au vizitat UC;
- asigurarea de stagii de cercetare pentru specialiști din țară și străinătate;
- cursuri și seminarii susținute de personalitățile științifice invitate;
- membrii în colective editoriale ale revistelor recunoscute ISI sau incluse în baze internaționale de date.

1. Editorial Board of Computational and Mathematical Methods in Medicine, <https://www.hindawi.com/journals/cmmm/editors/> (revista ISI, IF=1,563)

2. Editorial Board of JSM Mathematics and Statistics

(<http://www.j-scimedcentral.com/Mathematics/editors>)

3. Editorial Board of International Journal of Radiology (<http://www.ghrnet.org/index.php/ijr>)

4. Editorial Board of International Journal of Ambient Computing and Intelligence (IJACI),

<http://www.igi-global.com/journal/international-journal-ambient-computing-intelligence/1110>

5. Advances in Geospatial Technologies (AGT), <http://www.igi-global.com/book-series/advances-geospatial-technologies/73686>

6. Editorial Board ANALELE UNIVERSITĂȚII "DUNĂREA DE JOS" DIN GALAȚI, Fascicola II, MATEMATICĂ, FIZICĂ, MECANICĂ TEORETICĂ

7. Journal: Entropy (mdpi.com), Special Issue title: Entropy based image registration, Guest Editors

Name: Professor Luminita Moraru,

https://www.mdpi.com/journal/entropy/special_issues/entropy_image

¹⁰ Se va descrie detaliat fiecare acțiune realizată.

8. 2020, MEMBRU AL Editorial Board Journal of Imaging (ISSN 2313-433X)
[HTTPS://WWW.MDPI.COM/JOURNAL/JIMAGING/EDITORS](https://www.mdpi.com/journal/jimaging/editors)

10.2. Prezentarea rezultatelor la târgurile și expozițiile naționale și internaționale;

- târguri și expoziții internaționale;
- târguri și expoziții naționale.

10.3. Premii obținute prin proces de selecție/distincții, etc.

Premiere CNFIS-FDI-2020-0451/ Inovare prin Cercetare de Excelență - CEREX_UDJG/ SECȚIUNEA CERCETĂTORII UDJG CARE AU AVUT ÎN 2020 CEL MAI MARE NUMĂR DE CITĂRI a acordat premii prof. Constantin Apetrei, Academician Eugen Victor Cristian Rusu, prof. Liliana Rusu, prof. Luminița Moraru și prof. Lidia Benea.

<https://www.ugal.ro/anunturi/stiri-si-evenimente/8519-premii-importante-pentru-cercetatorii-universitatii-dunarea-de-jos-din-galati-la-gala-cercetarii-de-excelenta-cerex-udjg>

Premiul I în cadrul proiectului POCU/380/6/13 - Burse pentru educația antreprenorială în rândul doctoranzilor și cercetătorilor postdoctorat (Be Antreprenor!), MySMIS 124539, 2020., cercetator postdoctorand Cristian Obreja, mentor prof. Luminița Moraru

Premiul II la Scientific Conference of Doctoral Schools SCDS-UDJG “Perspectives and challenges in doctoral research”, 8th Edition, “Dunarea de Jos” University of Galati, 18-19 of June 2020, cu articolul “Differentiation of Brain Metastases in MRI Image using the First- and Second-Order Statistical Features”. Autori Lenuța Pană, Simona Moldoveanu, Luminița Moraru

Mențiune la Scientific Conference of Doctoral Schools SCDS-UDJG “Perspectives and challenges in doctoral research”, 8th Edition, “Dunarea de Jos” University of Galati, 18-19 of June 2020, cu articolul “Comparison of distance metric measures in differentiation of non-dermoscopic skin lesions”. Autori Felicia Anișoara Damian, Simona Moldovanu, Luminița Moraru

10.4. Prezentarea activității de mediatizare:

- extrase din presa (interviuri);
- participare la dezbateri radiodifuzate / televizate.

-interviu TV Galati, ian 2018 -prezentarea vizitei in RP China, Wenzhou University

Data:24.02.2021

Responsabil UC
Prof. dr. ing. Fiz. Luminita Moraru

