

# RAPORT EVALUARE <sup>1</sup>

(2022)

## 1. Datele de identificare ale unității de cercetare

- 1.1. Denumirea<sup>2</sup>: Sisteme Inteligente și Tehnologia Informației - SITI
- 1.2. Document de înființare: Decizia Rectorului Universitatii Dunarea de Jos din Galati, Nr. 606 din 20.03.2007
- 1.3. Pagina web (limba română, limba engleză):  
<https://unicer.ugal.ro/index.php/ro/prezentare-siti>,  
<https://unicer.ugal.ro/index.php/en/accredited-research-units>
- 1.4. Adresa: Științei nr 2, Galați, Romania
- 1.5. Telefon, fax, pagina web, e-mail: +40 336 130 236, +40 236 470 905

## 2. Scurta prezentare

- 2.1. Domeniul fundamental/ramura de știință<sup>3</sup>: Științe ingineresti/Calculatoare și Tehnologia Informației
- 2.2. Directii de cercetare-dezvoltare/obiective de cercetare/priorități de cercetare
  - a. domenii principale de cercetare-dezvoltare-inovare: Sisteme inteligente pentru educație, cercetare și creativitate tehnica; Data Mining si Învățare Automată; Soft Computing aplicat în Sisteme Inteligente;
  - b. domenii secundare de cercetare-dezvoltare-inovare: Sisteme și tehnologii informatice suport pentru proiectarea aplicațiilor
  - c. servicii / microproductie: Cercetare și proiectare sisteme informatice inteligente, Cercetare și proiectare sisteme Big Data

## 3. Structura de conducere a UC

- 3.1. Responsabil : Luminita Dumitriu
- 3.2. Consiliul de coordonare: Ioan Susnea, Emilia Pecheanu, Cornelia Tudorie

## 4. Structura resursei umane

Numărul total de membri, din care:

- a. Număr membri titulari: 15
- b. Număr membri asociați: 0
- c. Conducători de doctorat<sup>4</sup>: Dumitriu Luminita, Calculatoare si Tehnologia Informatiei
- d. Număr de tineri cercetatori (postdoctoranzi, doctoranzi, masteranzi etc): 6
- e. Număr ingineri/tehnicieni: 0

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<sup>1</sup> Se întocmește și se predă anual

<sup>2</sup> Inclusiv acronim.

<sup>3</sup> In acord cu HOTĂRÂREA Nr. 140/2017 din 16 martie 2017 privind aprobarea Nomenclatorului domeniilor și al specializărilor/programele de studii universitare și a structurii instituțiilor de învățământ superior pentru anul universitar 2017 - 2018

<sup>4</sup> Nume, prenume, domeniul de doctorat.

## 5. Infrastructura de cercetare-dezvoltare, facilități de cercetare

### 5.1. Laboratoare<sup>5</sup>

Laboratorul de Sisteme Inteligente și Creativitate, resp. Adina Cocu, Sisteme inteligente pentru educație, cercetare și creativitate tehnica; Colectiv: Emilia Pecheanu, Veronica Jascanu, Cristina Anton, Nuti Bumbea (drd)

Laborator de Tehnici Inteligente Avansate, resp. Nicolae Jâșcanu, Data Mining si Învățare Automată, Soft Computing aplicat în Sisteme Inteligente; Colectiv: Luminita Dumitriu, Cornelia Tudorie, Mihaela Miron (Tiplea), Lucian Dimitrievici, Cristian Sandu(drd), Oleksandr Haisha (drd)

Laboratorul de Sisteme si Tehnologii Informatice, resp. Marian Crăciun, Sisteme și tehnologii informatice suport pentru proiectarea aplicațiilor; Colectiv: Ioan Susnea, Mihai Vlase, Dan Munteanu, Sabina Costache, Mihai Culea, Adrian Istrate(drd), Georgiana Crihan-Afocsoaie (drd)

### 5.2. Echipamente, instalații și software de interes național pentru cercetare fundamentală, dezvoltare tehnologică și inovare<sup>6</sup>

Nu este cazul

## 6. Contracte de cercetare derulate<sup>7</sup>

6.1. Contracte câștigate în competiții:	9
- internaționale	4
- naționale	5
6.2. Contracte cu agenți economici:	2
- din străinătate	0
- din țară	2

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

### 7.1. Rezultate ale activității CDI (cercetare fundamentală și aplicativă)<sup>8</sup>

		Nr.
<b>7.1.1</b>	Lucrări publicate în reviste cotate ISI	<b>5</b>

<sup>5</sup> Se vor nominaliza laboratoarele, responsabilul și principalele direcții de cercetare; în cazul laboratoarelor, se vor nominaliza compartimentele/colectivele de cercetare.

<sup>6</sup> 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.

<sup>7</sup> 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 centrului) de cercetare, director/responsabil UC, parteneri (dacă este cazul), valoarea totală, valoarea regiei și valoarea din regie care a fost solicitată pentru întreținerea centrului.

<sup>8</sup> Se vor anexa lista acestor contribuții.

<b>7.1.2</b>	Factor de impact cumulativ al lucrărilor cotate ISI	<b>11,707</b>
<b>7.1.3</b>	Citări în reviste de specialitate cotate ISI	<b>50</b>
<b>7.1.4</b>	Lucrări științifice/tehnice în reviste indexate în baze de date internaționale	<b>1</b>
<b>7.1.5</b>	Comunicări științifice prezentate la conferințe internaționale	<b>2</b>
<b>7.1.6</b>	Comunicări științifice prezentate la conferințe naționale	<b>4</b>
<b>7.1.7</b>	Brevete de invenție (solicitate / acordate)	<b>0</b>
<b>7.1.8</b>	Citări în sistemul ISI ale lucrărilor de cercetare/ brevete	<b>1</b>
<b>7.1.9</b>	Produse/servicii/tehnologii rezultate din activități de cercetare, bazate pe brevete, omologări sau inovații proprii.	<b>0</b>
<b>7.1.10</b>	Studii prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice, noi sau perfecționate, comandate sau utilizate de beneficiar.	<b>8</b>

- 7.2. Teze de doctorat finalizate și în derulare<sup>9</sup> 9
- 7.3. Oportunități de valorificare a rezultatelor CDI 0
- 7.4. Rezultate ale activității CDI valorificate și efectele obținute 0

## 8. Măsuri privind creșterea capacității activității CDI

Cresterea capacității centrului de cercetare cu noi cercetători experimentați (2 noi cercetători)

## 9. Măsuri pentru creșterea prestigiului și a vizibilității UC<sup>10</sup>

### 9.1. 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; 8 (proiect ENTRE-NET cu parteneri: IME GSEVEE (Lead Partner - Greece); Ministry of Education (Greece); Manpower Organisation – OAED (Greece); VLAIO EMPLOYMENT AGENCY (Belgium); ODISEE UNIVERSITY (Belgium); European Vocational Training Association - EVTA (Belgium); ERIFO JOB AGENCY (Italy); National body for Microcredits - ENM (Italy))
- înscrierea UC în platforme naționale și internaționale care promovează parteneriatele; 0
- înscrierea UC în rețele de cercetare/asociații profesionale de prestigiu pe plan național/internațional; 0

<sup>9</sup> Se va anexa lista tezelor de doctorat în derulare, cu specificarea titlului, domeniul de doctorat, nume doctorand, nume conducător de doctorat.

<sup>10</sup> Se va descrie detaliat fiecare acțiune realizată.

- personalități științifice ce au vizitat UC; 0
  - asigurarea de stagii de cercetare pentru specialiști din țară și străinătate; 0
  - cursuri și seminarii susținute de personalitățile științifice invitate; 0
  - membrii în colective editoriale ale revistelor recunoscute ISI sau incluse în baze internaționale de date. 7
- 9.2. Prezentarea rezultatelor la târgurile și expozițiile naționale și internaționale;
- târguri și expoziții internaționale; 0
  - târguri și expoziții naționale. 0
- 9.3. Premii obținute prin proces de selecție/distincții, etc. 0
- 9.4. Prezentarea activității de mediatizare: 0
- extrase din presa (interviuri);
  - participare la dezbateri radiodifuzate / televizate.

Data: 20.03.2023

Responsabil ,  
*Luminita Dumitriu*

## Punctaj si liste centru de cercetare SITI 2022

Anexa

Total puncte autoevaluare: **7776,44 puncte**

A Performanța în cercetarea științifică – **2479.26 puncte**

**A1. Articole publicate în reviste cotate ISI - Web of Science (Thomson Reuters) – 8 (61.67p)**

1. An Approach to Real-Time Collision Avoidance for Autonomous Vehicles Using LiDAR Point Clouds. *Sandu, C., & Susnea, I.* (2022). Journal of Applied Engineering Sciences, 12(1). WOS: 000797290800018; FI 0.13
2. Dragoș Sebastian Cristea, Cristina Gabriela Zamfir, Ira Adeline Simionov, Costinela Fortea, Romeo Victor Ionescu, Monica Laura Zlati, Valentin Marian Antohi, *Dan Munteanu*, Stefan-Mihai Petrea, Renewable energy strategy analysis in relation to environmental pollution for BRICS, G7 and EU countries by using a machine learning framework and panel data analysis, Frontiers in Environmental Science, 14 December 2022, Sec. Environmental Economics and Management,
3. Luminita Moraru , Simona Moldovanu, *Lucian Traian Dimitrievici*, Nilanjan Dey , Amira S. Ashour , Fuqian Shi , Simon James Fong , Salam Khan , Anjan Biswas, Gaussian mixture model for texture characterization with application to brain DTI images, Journal of Advanced Research 16 (2019) 15–23, Factor de impact 4.327
4. *Dan Munteanu*, Diana Moina, Cristina Gabriela Zamfir, Ștefan Mihai Petrea, Dragoș Sebastian Cristea, Nicoleta Munteanu, Sea Mine Detection Framework Using YOLO, SSD and EfficientDet Deep Learning Models, Sensors, 2022, 22, no. 23: 9536,
5. *Dan Munteanu*, Catalina Bejan, Nicoleta Munteanu, Cristina Zamfir, Mile Vasić, Stefan-Mihai Petrea, Dragoș Cristea, Deep-Learning-Based System for Assisting People with Alzheimer’s Disease, Electronics, Volume 11, Issue 19, Article Number 3229, DOI 10.3390/electronics11193229, Published OCT 2022, Document Type Article,
6. George Danut Mocanu, Gabriel Murariu, *Dan Munteanu*, Common issues and differences in motivational support and the effects of rugby for the U-15 and U-16 national teams, Journal: Sustainability, Section: Sustainable Education and Approaches, Volume 14, Issue 8, Article Number 4535, DOI 10.3390/su14084535, Published APR 2022, Document Type Article
7. Adrian Micu, Alexandru Capatina, Dragoș Sebastian Cristea, *Dan Munteanu*, Angela-Eliza Micu, Daniela Ancuta Sarpe, Assessing an on-site customer profiling and hyper-personalization system prototype based on a deep learning approach, Technological Forecasting & Social Change, Volume 174, Article Number 121289, DOI 10.1016/j.techfore.2021.121289, Published JAN 2022, Document Type Article
8. *Miron, M.*; Moldovanu, S.; Ștefănescu, B.I.; Culea, M.; Pavel, S.M.; Culea-Florescu, A.L. A New Approach in Detectability of Microcalcifications in the Placenta during Pregnancy Using Textural Features and K-Nearest Neighbors Algorithm. J. Imaging 2022, 8, 81. <https://doi.org/10.3390/jimaging8030081>, <https://www.mdpi.com/2313-433X/8/3/81>

**A2. Impactul publicațiilor - 8 (1496.03 p)**

1. Journal of Applied Engineering Sciences (FI = 0.13 AIS = 0.313) An Approach to Real-Time Collision Avoidance for Autonomous Vehicles Using LiDAR Point Clouds 26.46

2. *Frontiers in Environmental Science* (FI = 5.411 AIS = 1.165) Renewable energy strategy analysis in relation to environmental pollution for BRICS, G7 and EU countries by using a machine learning framework and panel data analysis 270.94
3. *Journal of Advanced Research* (FI = 4.325 AIS = 0.636) Quantitative diffusion tensor magnetic resonance imaging signal characteristics in the human brain: a hemispheres analysis, 2017, *Journal IEEE Sensors*, *IEEE SENSORS JOURNAL*, VOL. 17, NO. 15, AUGUST 1, 2017, pp.4886-4893, DOI 10.1109/JSEN.2017.2714701, ISSN 1558-1748 195.90
4. *Sensors* (FI = 3.847 AIS = 0.586) Sea Mine Detection Framework Using YOLO, SSD and EfficientDet Deep Learning Models, *Sensors* 175.67
5. *Electronics* (FI = 2.690 AIS = 0.350) Deep-Learning-Based System for Assisting People with Alzheimer's Disease 105.20
6. *Sustainability* (FI = 3.889 AIS = 0.516) Common issues and differences in motivational support and the effects of rugby for the U-15 and U-16 national teams 172.24
7. *Technological Forecasting & Social Change* (FI = 10.884 AIS = 1.573) Assessing an on-site customer profiling and hyper-personalization system prototype based on a deep learning approach 491.05
8. *Journal of Imaging* (FI = 0.560 AIS = 0.557) A New Approach in Detectability of Microcalcifications in the Placenta during Pregnancy Using Textural Features and K-Nearest Neighbors Algorithm. 58.59

**A3. Lucrări prezentate la manifestări științifice internaționale, publicate în rezumat în reviste cotate ISI - Web of Science (Thomson Reuters) – 5 (34.31p)**

1. Moina Diana, *Munteanu Dan*, Cristea Dragos Sebastian, Munteanu, Nicoleta, Marine Mine Detection Using Deep Learning 2022 26TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC), Book Series International Conference on System Theory Control and Computing, Page 237-243, DOI 10.1109/ICSTCC55426.2022.9931775, Published 2022, Document Type Proceedings Paper
2. Bejan Catalina, *Munteanu Dan*, Munteanu Nicoleta, Deep Learning-based software application for assisting people with Alzheimer's disease, 2022 26TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC), Book Series International Conference on System Theory Control and Computing, Page 263-270, DOI 10.1109/ICSTCC 55426.2022.9931849, Published 2022, Document Type Proceedings Paper
3. Anghel C; Istrate A. and *Vlase M.* - A Comparison of Several Implementations of B92 Quantum Key Distribution Protocol, 26th International Conference on System Theory, Control and Computing (ICSTCC), 2022, <https://www.webofscience.com/wos/woscc/full-record/WOS:000889980600063>
4. *Bumbea, Nuti; Dumitriu, Luminita*, 2022, The contribution of m-learning applications to improving the performance of training on the Moodle platform, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON BUSINESS EXCELLENCE, Volume 15, DOI 10.2478/picbe-2021-0114, ISSN 2073-8994, pp. 1230-1242, FI= 0.25
5. *M. Miron*, S. Moldovanu and A. L. Culea-Florescu, "A Multi-Layer Feed Forward Neural Network for Breast Cancer Diagnosis from Ultrasound Images," 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2022, pp. 421-425, doi: 10.1109/ICSTCC55426.2022.9931772. <https://ieeexplore.ieee.org/abstract/document/9931772>

**A4. Articole publicate în reviste indexate în baze de date internaționale- 1 (39.00 p)**

1. Simona Moldovanu, Iulia-Nela Anghelache Nastase, *Mihaela Miron*, Luminita Moraru, Performance comparison of two non-parametric classifiers for classification using geometric features, ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, MATHEMATICS, PHYSICS, THEORETICAL MECHANICS, FASCICLE II, YEAR XIV (XLV) 2022, No. 2
2. *Georgiana Crihan, Marian Crăciun, Luminița Dumitriu*, HYBRID METHODS OF AUTHENTICATION IN NETWORK SECURITY, Annals of the University "Dunarea de Jos" of Galati, Fascicle III, vol. 45, 2022
3. Susnea, S., *Susnea, I*, Impact of Online Education on Students' Wellbeing (2023) The Annals of the University Dunarea de Jos, Fascicle XX, Sociology 18(1). (accepted for publication).

**A5. Lucrări prezentate la manifestări științifice internaționale, publicate integral într-un volum editat, inclusiv electronic (Conference Proceedings Citation Index- Science, Web of Science, Thomson Reuters) – 3 (28.25 p)**

1. *Pecheanu, E. Cocu, A. Susnea, I. Istrate, A. Dumitriu, L.*, Digital Learning for Enhancing Entrepreneurial Skills of Future Engineers, (2022) ICL2022 International Conference on Interactive Collaborative Learning, Viena Sept. 2022.
2. *Pecheanu, E., Cocu, A., Susnea, I.*, & Kevelaerts, L. ,E-Learning Experiences for the Entrepreneurial Education of Students (2022). In ICERI2022 Proceedings (pp. 5587-5594). IATED.
3. *M. Miron*, S. Moldovanu and A. L. Culea-Florescu, "A Multi-Layer Feed Forward Neural Network for Breast Cancer Diagnosis from Ultrasound Images," 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2022, pp. 421-425, doi: 10.1109/ICSTCC55426.2022.9931772.  
<https://ieeexplore.ieee.org/abstract/document/9931772>

**A6. Număr de citări conform Web of Science (Thomson Reuters) – 74 (740p)**

1. A novel method for actuator fault detection considering complex operating processes, Tianshu Sun, Yinsong Wang, Mengting Ding,, Journal of Process Control, Volume 110, 2022,Pages 1-10,ISSN 0959-1524,<https://doi.org/10.1016/j.jprocont.2021.12.003>.  
(<https://www.sciencedirect.com/science/article/pii/S0959152421002195>)  
**Citeaza:** *M. Miron*, L. Frangu and S. Caraman, ""Actuator fault detection using extended Kalman filter for a wastewater treatment process,"" 2017 21st International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2017, pp. 583-588, doi: 10.1109/ICSTCC.2017.8107098.
2. (neraportata anterior)A reliable framework for accurate brain image examination and treatment planning based on early diagnosis support for clinicians SL Fernandes, UJ Tanik, V Rajinikanth... - Neural Computing, 2019 - Springer  
**Citeaza:** L. Moraru,S. Moldovanu,*L. T. Dimitrievici*, A. S. Ashour, N. Dey,Texture anisotropy technique in brain degenerative diseases, 2018, Neural Comput & Applic, Volume 30, Issue 5, pp 1667–1677, DOI: 10.1007/s00521-016-2777-7,  
[http://link.springer.com/article/10.1007/s00521-016-2777-7](http://link.springer.com/article/10.1007/s00521-016-2777-7?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst)  
Impact factor: 4.213 issn 0941-0643
3. A Scalable Solution to Detect Behavior Changes of Elderly People Living Alone, Ioan Susnea, Emilia Pecheanu, Cristian Sandu and Adina Cocu, Applied Sciences 2022, 12(1), 235;  
<https://doi.org/10.3390/app12010235>,

**citeaza:** *I. Susnea, L. Dumitriu, M. Talmaciu et al., Unobtrusive Monitoring the Daily Activity Routine of Elderly People Living Alone, with Low-Cost Binary Sensors, SENSORS, Volume: 19 Issue: 10 Article Number: 2264, Published: MAY 2 2019*

4. A system for electric vehicle's energy-aware routing in a transportation network through real-time prediction of energy consumption. Modi, S., Bhattacharya, J. *Complex Intell. Syst.* 8, 4727–4751 (2022). <https://doi.org/10.1007/s40747-022-00727-4>

**Citeaza:** Machine Learning Algorithms: A study on noise sensitivity, Elias Kalapanidas, Nikolaos Avouris, *Marian Craciun*, Daniel Neagu, 2003/10, Proc. 1st Balcan Conference in Informatics, 356-365, <https://link.springer.com/article/10.1007/s11831-021-09700-9>

5. Advances in Computational Intelligence of Polymer Composite Materials: Machine Learning Assisted Modeling, Analysis and Design., Sharma, A., Mukhopadhyay, T., Rangappa, S.M. et al. *Arch Computat Methods Eng* 29, 3341–3385 (2022). <https://doi.org/10.1007/s11831-021-09700-9>

**Citeaza:** Machine Learning Algorithms: A study on noise sensitivity, Elias Kalapanidas, Nikolaos Avouris, *Marian Craciun*, Daniel Neagu, 2003/10, Proc. 1st Balcan Conference in Informatics, 356-365, <https://link.springer.com/article/10.1007/s11831-021-09700-9>

6. (neraportata anterior)Age-Related, Sport-Specific Dysfunctions of the Shoulder and Pelvic Girdle in Athletes Table Tennis Players. Observational Study, Daniel-Andrei IORDAN, George-Dănuț MOCANU, Mircea-Dan MOCANU, Constantin MUNTEANU, Georgiana Bianca CONSTANTIN, Ilie ONU, Alexandru NECHIFOR, Vol. 12 No. 4 (2021): Balneo and PRM Research Journal , pp.337-344

**Citeaza:** Gabriel MURARIU, *Dan Munteanu*, Lucrari practice de identificare, modelare si simulare a proceselor fizice, ISBN 978-606-696-129-5, Editura GUP, 2018

7. AI-Enabled Marketing Solutions in Marketing Decision Making: AI Application in Different Stages of Marketing Process, Ljepava, Nikolina, TEM JOURNAL-TECHNOLOGY EDUCATION MANAGEMENT INFORMATICS, Volume 11, Issue 3, Page 1308-1315, DOI 10.18421/TEM113-40, Published AUG 2022

**Citeaza:** Adrian Micu, Alexandru Capatina, Dragos Sebastian Cristea, *Dan Munteanu*, Angela-Eliza Micu, Daniela Ancuta Sarpe, , Assessing an on-site customer profiling and hyper-personalization system prototype based on a deep learning approach, *Technological Forecasting & Social Change*, Volume 174, Article Number 121289, DOI 10.1016/j.techfore.2021.121289, 2022,

8. Digital Twin: Current Research Trends and Future Directions. Alnowaiser, K.K., Ahmed, M.A. , *Arab J Sci Eng* (2022). <https://doi.org/10.1007/s13369-022-07459-0>, <https://link.springer.com/article/10.1007/s13369-022-07459-0>, Journal Impact Factor: 2.807

**Capitol citat:** Algorithms for (Q) SAR model building, Qasim Chaudhry, Jacques Chrétien, *Marian Craciun*, Gongde Guo, Frank Lemke, Johann-Adolf Müller, Daniel Neagu, Nadège Piclin, Marco Pintore, Paul Trundle, 2007, Carte: Quantitative Structure-Activity Relationships (QSAR) for Pesticide Regulatory Purposes, Pagini: 111-147

9. (neraportata anterior)An Educational Glance into the Future: Holodeck as a Future Enacted Narrative Learning Technology. Kymalainen, Tiina (2019). *JOURNAL OF UNIVERSAL COMPUTER SCIENCE*, GRAZ UNIVERSITY OF TECHNOLOGY, AUSTRIA, Volume 25, Issue 5 (pp. 446-464).

**Citeaza:** *Susnea, E. Pecheanu, C. Tudorie, A. Cocu, "The education for creativity – the only student's tool for coping with the uncertainties of the future", Multidisciplinary Academic Conference on Education, Teaching and E-learning (MAC ETEL 2014), Prague , 16-17th October 2014*



10. Analyzing online consumer purchase psychology through hybrid machine learning, Srivastava PR, Eachempati P, Panigrahi, R , Behl, A , Pereira, V, Annals of Operations Research, 2022, ISI Q2

**Citeaza:** Adrian Micu, Alexandru Capatina, Dragos Sebastian Cristea, Dan Munteanu, Angela-Eliza Micu, Daniela Ancuta Sarpe, , Assessing an on-site customer profiling and hyper-personalization system prototype based on a deep learning approach, Technological Forecasting & Social Change, Volume 174, Article Number 121289, DOI 10.1016/j.techfore.2021.121289, 2022,

11. Aquatic therapy in neuromotor recovery - case study, Elena Vizitiu, Mihai Constantinescu, Corina Poraicu, BALNEO AND PRM RESEARCH JOURNAL, Volume 13, Issue 3, Article Number 516, DOI 10.12680/balneo.2022.516, Published SEP 2022

**Citeaza:** George Danut Mocanu, Gabriel Murariu, Dan Munteanu, The Influence of Socio-Demographic Factors on the Forms of Leisure for the Students at the Faculty of Physical Education and Sports , International Journal of Environmental Research and Public Health, Volume 18, Issue23, Article Number 12577, 2021,

12. Do Autoencoders Need a Bottleneck for Anomaly Detection?, B. X. Yong and A. Brintrup, in IEEE Access, vol. 10, pp. 78455-78471, 2022, doi: 10.1109/ACCESS.2022.3192134. Link: <https://ieeexplore.ieee.org/document/9832598> , Journal Impact Factor: 3.476

**Citeaza:** Articol citat: Machine Learning Algorithms: A study on noise sensitivity, Elias Kalapanidas, Nikolaos Avouris, Marian Craciun, Daniel Neagu, 2003/10, Proc. 1st Balcan Conference in Informatics, Pagini: 356-365

13. Carbon Emission Peak Paths Under Different Scenarios Based on the LEAP Model-A Case Study of Suzhou, China, Sun Wenjie, Zhao Yi, Li Zeng, Yin Yitong, Cao Chenglong, Frontiers in Environmental Science, Volume 10, Article Number 905471, DOI10.3389/fenvs.2022.905471, Published MAY 10 2022

**Citeaza:** National Carbon Accounting—Analyzing the Impact of Urbanization and Energy-Related Factors upon CO2 Emissions in Central–Eastern European Countries by Using Machine Learning Algorithms and Panel Data Analysis, Florian Marcel Nuță, Alina Cristina Nuță, Cristina Gabriela Zamfir, Stefan-Mihai Petrea, Dan Munteanu, Dragos Sebastian Cristea, Energies, Volume 14, Issue 10, Article Number 277, 2021,

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**Citeaza:** *Şuşnea I*, Panait O, Niculiţă C, Munteanu D. Machine Vision for Autonomous Vehicles - Potential and Limitations. A Literature Review. The Annals of "Dunarea de Jos" University of Galati. Fascicle III, Electrotechnics, Electronics, Automatic Control, Informatics

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**A7. Comunicări orale prezentate la manifestări științifice internaționale – 0**

**A8. Comunicări orale prezentate la manifestări științifice naționale -0**

**A9 Participare la o expoziție națională cu exponate de patrimoniu – 0**

**A10 Participare la o expoziție internațională cu exponate de patrimoniu – 0**

**A11 Traducerea unei cărți de specialitate apărută la editura Academiei Române sau la editură recunoscută la nivel național și internațional – 0**

**A12 Gestionarea și conservarea unui fond cultural și / sau științific de interes național și / sau internațional – 0**

**A13 Activități de creație (arte vizuale, regie, compoziție muzicală, orchestrație, design, web-design, multimedia, lucrări literare, lucrări tehnice, scenariu, scenografie etc.) – 0**

**A14 Activități ale jurnaliștilor independenți – 0**

**A15 Restaurări ale operelor de artă, cercetări muzicologice, lucrări de etnomuziologie etc. – 0**

**A16 Organizare/coordonare de concerte, spectacole, festivaluri, schimburi culturale, expoziții, evenimente cultural-artistice etc.; - 4 (80p)**

1. Concurs de creativitate tehnologică 2022, *Veronica Jascanu*

2. Concurs de creativitate IT - Severin Bumbaru - 2022, *Veronica Jascanu*

3. Director Expoziție - Ziua Europei, mai 2022, *Cristina Anton*

4. Director Expoziție - Ziua Mondială a Educației, octombrie 2022, *Cristina Anton*

**A17 Participarea la concerte, spectacole, festivaluri, schimburi culturale, expoziții, evenimente cultural-artistice etc. - 0**

**B** Capacitatea de a atrage fonduri de cercetare (se vor lua în considerare doar sumele care au revenit unității de cercetare sau facultății în care aceasta funcționează) – **5850 puncte**

**B1. Granturi câștigate /derulate de membrii unității de cercetare finanțate din fonduri internaționale– 5 (2500p)**

1. Proiect nr. 2022-1-RO01-KA220-ADU-000085596 – InnoGreen
2. Proiect de cercetare-dezvoltare pentru crearea de standarde de competențe antreprenoriale și verzi și dezvoltarea de mediu educațional pentru învățarea activă –
3. Proiect ENTRNET nr 621546-EPP-1-2020-1-EL-EPPKA3-IPI-SOC-IN
4. Proiect 621764-EPP-1-2020-1-NO-EPPKA2-KA, cu titlul Digitalisation of water industry by innovative graduate water education / DIGIWATER
5. Proiect ProBM2 nr 2019-1-PL01-KA204-064951

**B2. Granturi câștigate /derulate de membrii unității de cercetare finanțate din fonduri naționale- 3 (750p)**

1. Susținerea și dezvoltarea activităților CDI-TT în Universitatea „Dunărea de Jos” din Galați-Aplicație de sine stătătoare pentru îmbunătățirea clarității detaliilor din imaginile medicale, contract de finanțare cu nr. RF 3627/30.09.2021
2. Creșterea accesului studenților universității la educație online -UNITEC -Contract nr. 231/233t/06.08.2021
3. 51PTE - 0697 Optimizarea tehnologiilor de creștere a biomasei piscicole si vegetale in cadrul sistemelor multi-trofice de acvacultura intensiva prin utilizarea tehnicilor inteligente de recunoastere vizuala si IoT PN-III PTE-2019

**B3 Contracte extrabugetare câștigate /derulate de membrii unității de cercetare, finanțate din fonduri naționale/internaționale – 2 (400p)**

1. Proiectul 14883 / 11.05.2022 - Susținerea și dezvoltarea activităților CDI-TT în Universitatea Dunărea de Jos din Galați
2. Proiect 777/30.09.2021 - Identificarea unor metode moderne de monitorizarea si evaluare statistica a modificărilor climatice in zona de sud est a României in județul Galați.

**B4. Propuneri de proiecte elaborate de membrii UC în cadrul competițiilor naționale/internaționale – 7 (525p)**

1. Proiect nr. 2022-1-RO01-KA220-ADU-000085596 – InnoGreen depus la Agenția Erasmus Romania
2. Proiect de Acreditare Erasmus+
3. Proiect nr.KA220-ADU-AB6242E2 – ProBM3 – depus la Agenția Erasmus Polonia
4. Proiect ERASMUS-EDU-2022-PI-FORWARD-LOT1 101087628 - DigitalSkillsWallet depus la EACEA Bruxelles
5. Proiect AUF -Development des competences de travail a distance dans les etablissements d'enseignement superieur d'Ukraine"
6. Proiect DICY – Identificator portal CE 101120691
7. Proiect RoNaQCI – Identificator portal CE 101091562

**B5 Manifestări științifice (congrese, conferințe, simpozioane) sau școli de vară internaționale organizate de membrii unității de cercetare – 7 (700p)**

1. Mihaela Tiplea (Miron) Co-Chair Section: Machine Learning II, 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), October 19 - 21, 2022, Sinaia, Romania, [https://controls.papercept.net/conferences/conferences/STCC22/program/STCC22\\_ContentListWeb\\_2.html](https://controls.papercept.net/conferences/conferences/STCC22/program/STCC22_ContentListWeb_2.html)
2. INTERNATIONAL WORKSHOP ON COMPETENCE ASSESSMENT, Organizer Kuriame Lietuvos Ateitj, Adina Cocu
3. 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), Luminita Dumitriu, Emilia Pecheanu, Mihai Vlase, Marian Craciun
4. Cristina Anton Conferinta Pedagogice Internationale – Maraton Educational – Directia Generala Invatamant Cahul, 23.08.2022, Moldova
5. Cristina Anton, Seminarului international Abordarea didactica a textului multimodal, 07.10.2022, Directia Generala Invatamant Cahul, Moldova
6. Dan Munteanu, 21 th RoEduNet Conference, NETWORKING in Education and Research, Bucharest, 15-16 September 2022,
7. Marian Craciun, Cornelia Tudorie, International Conference for Modelling and Development of Intelligent Systems, Oct 28-30 2022, Sibiu, Romania

**B6 Manifestări științifice (congrese, conferințe, simpozioane) sau școli de vară naționale organizate de membrii unității de cercetare – 13 (975p)**

1. Luminita Dumitriu, Conferinta scolilor doctorale din Universitatea Dunarea de Jos / Section 5. – 2022,
2. Cristina Anton, Workshop Competenta personala, sociala si de a învăța să înveți, construirea de experiențe de învățare relevante în școală, aprilie 2022
3. Cristina Anton, Atelierele de lucru -PROF, decembrie 2022
4. Cristina Anton, Sesiunea anuala a cercetării științifice studentești – ediția a XXX-a, Universitatea “Constantin Brâncoveanu” Pitești, Facultatea de Management și Marketing în Afaceri Economice din Brăila
5. Cristina Anton, Proiectul Scoala de Vara, iulie - august 2022
6. Cristina Anton, Selectie Nationala de bune practici – Creatori de Educatie, mai 2022
7. Adina Cocu, Workshop "Comunicare și colaborare în comunitatea IT academică și profesională din GALAȚI" - 31 martie 2022
8. Adina Cocu, Workshop " Intalnire cu companiile din mediul IT din Galati" - 30 iunie 2022
9. Ioan Susnea, Adina Cocu Concurs Severin Bumbaru
10. Emilia Pecheanu, Cornelia Tudorie, Nicolae Jascanu, Mihaela Tiplea, . Sesiunea de comunicari studentesti FACIEE 2022
11. Cristina Anton 11.11 1.Membru in comisia pt. sesiunea de comunicari stiintifice studentesti, DFCTT, Seria VI ITIC
12. Veronica Jascanu, . Sesiunea de comunicari studentesti Emil Ceanga
13. Cristina Anton, Sesiunea de comunicari stiintifice studentesti, Facultatea de Management si Marketing in Afaceri Economice Braila, Universitatea „C-tin Brancoveanu” Pitesti

**C** Capacitatea de a dezvolta servicii, tehnologii, produse – **600 puncte**

**C1. Cereri de brevet înregistrate la nivel internațional de către membrii UC - 0**

**C2. Cereri de brevet înregistrate la nivel național de către membrii UC- 0**

**C3 Brevete acordate la nivel internațional de către membrii UC - 0**

**C4 Brevete acordate la nivel național de către membrii UC - 0**

**C5 Produse/servicii/tehnologii rezultate din activități de cercetare, bazate pe brevete, omologări sau inovații proprii.**

**C6 Studii prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice, noi sau perfecționate, comandate sau utilizate de beneficiar. – 8 (600 p)**

1. Contribuții privind securitatea informatică prin implementarea mecanismelor hibride de autentificare în rețea- studiu doctoral Georgiana Crihan
2. Ghid metodologic - dezvoltat în cadrul proiectului ProBM (<https://probm2.cti.ugal.ro/site/ro/methodological-guide/>)
3. Instrument de formare - aplicație în cadrul proiectului ProBM (<https://probm2-edu.cti.ugal.ro/>)
4. Aplicație de sine stătătoare pentru îmbunătățirea clarității detaliilor din imaginile medicale, contract de finanțare cu nr. RF 3627/30.09.2021

**D** Capacitatea de a pregăti superior tineri cercetători – **1460 puncte**

**D1 Conducători de doctorat care activează în unitatea de cercetare – 2 (150p)**

**Luminita Dumitriu**, conducator de doctorat in Calculatoare si tehnologia Informatiei, Scoala Doctorala de Stiinte Fundamentale si Ingineresti

**Ioan Susnea**, conducator de doctorat in Calculatoare si tehnologia Informatiei, Scoala Doctorala de Stiinte Fundamentale si Ingineresti

**D2 Doctoranzi care desfășoară studii doctorale în unitatea de cercetare – 7 (350p)**

1. Contributii privind tehnici inteligente de prelucrare a cantitatilor mari de date, Fodor Kis I. Ioan; conducator doctorat: Luminita Dumitriu; domeniu: Calculatoare si Tehnologia Informatiei
2. Contribuții cu privire la analiza și proiectarea sistemelor de educație asistate de calculator - Bumbea I Nuți (Savin) ; conducator doctorat: Luminita Dumitriu; domeniu: Calculatoare si Tehnologia Informatiei - **finalizat**
3. Contribuții privind monitorizarea și securitatea rețelelor de calculatoare – Istrate Adrian; conducator doctorat: Luminita Dumitriu; domeniu: Calculatoare si Tehnologia Informatiei
4. Contribuții privind conducerea autonomă a autovehiculelor – Cristian Sandu; conducator doctorat: Luminita Dumitriu; domeniu: Calculatoare si Tehnologia Informatiei
5. Contributii privind securitatea informatiei – Georgiana Crihan-Afocsoaie; conducator de doctorat: Luminita Dumitriu; domeniu: Calculatoare si Tehnologia Informatiei
6. Contributions on robust image processing – Oleksandr Haisha; conducator de doctorat: Luminita Dumitriu; domeniu: Calculatoare si Tehnologia Informatiei
7. Contributii privind aplicatii de evidenta – Paul Iacobescu; conducator de doctorat: Ioan Susnea; domeniu: Calculatoare si Tehnologia Informatiei

**D3 Bursieri post-doctorat care desfășoară stagii de cercetare în unitatea de cercetare - 0**

**D4 Acorduri de colaborare internaționale încheiate de unitatea de cercetare – 10 (500 p)**

Acorduri cu partenerii proiectului ENTRNET (<https://entrnet.eu/partners/>):

1. Small Enterprises' Institute of Hellenic Confederation of Professionals Craftsmen & Merchants (IME GSEVEE), Grecia
2. National Organisation for the Certification of Qualifications and Vocational Guidance, Grecia
3. Manpower Employment Organisation (OAED), Grecia
4. LEARNING DIGITAL, Italia
5. National Agency for Microcredit (ENM), Italy
6. Odisee vzw, Belgia
7. ASSOCIATION EUROPÉENNE POUR LA FORMATION PROFESSIONNELLE (EVTA), Belgia  
Acorduri Erasmus
8. Acord Erasmus – Universite de Lorraine
9. Acord Erasmus – University of Ingolstadt
10. Acord Erasmus – University of Sibenice

**D5 Acorduri de colaborare naționale încheiate de unitatea de cercetare – 23 (460 p)**

Acorduri cu partenerii proiectului RoNaQCI

1. Universitatea Politehnica din Bucuresti (UPB),
2. Agentia De Administrare A Rețelei Nationale De Informatica Pentru Educatie Si Cercetare (Roedunet),
3. Universitatea Tehnica Gheorghe Asachi din Iasi (Tuiasi),
4. Universitatea Alexandru Ioan Cuza din Iasi (Uaic),
5. Universitatea Politehnica Timisoara (Upt)
6. Universitatea De Vest din Timisoara (Uvt)
7. Universitatea Babes Bolyai (Ubb),
8. Universitatea Tehnica Cluj-Napoca (Utc-N)
9. Universitatea din Bucuresti (Ub),
10. Universitatea din Craiova (Ucv),
11. Universitatea Lucian Blaga din Sibiu (Ulbs)
12. Universitatea Maritima din Constanta (Cmu)
13. Institutul National de Cercetare-Dezvoltare pentru Fizica si Inginerie Nucleara-Horia Hulubei (Ifin-Hh),
14. Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor Plasmei si Radiatiei (Inflpr),
15. Institutul National de Cercetare-Dezvoltare pentru Tehnologii Izotopice si Moleculare-Incdtim Cluj-Napoca (Incdtim),
16. Institutul National de Cercetare Dezvoltare pentru Fizica Materialelor (Incdfm)
17. Trencadis Corp Srl (Trc)
18. Intergraph Computer Services SRL (Ics),
19. Trans Sped SA (Tsp),
20. Agentia Spatiala Romana (Rosa),
21. Institutul Pentru Tehnologii Avansate (Ita),
22. Ministerul Apararii Nationale (Metra),
23. Institutul de Stiinte Spatiale (Iss)

**D5 Stagii pentru cercetători din instituții naționale/internaționale derulate în cadrul UC – 0**

**D6 Studenți/masteranzi implicați în programe de licență/masterat care desfășoară activități de cercetare în UC – 0**

**E** Prestigiul științific (toată perioada de activitate) – **245 puncte**  
**E1 Membri în colectivele editoriale ale unor reviste internaționale (cotate de Web of Science, Thomson Reuters) sau ale unor edituri internaționale – 0**

**E2 Membri în colectivele editoriale ale unor reviste indexate în baze de date internaționale sau ale unor edituri naționale – 4 (200p)**

1. Annals of University “Dunarea de Jos” of Galati, Fascicle III Electrotechnics, Electronics, Automatic Control and Informatics (ISSN 2344 – 4738, ISSN 1221-454X); Veronica Jascanu
2. Annals of University “Dunarea de Jos” of Galati, Fascicle III Electrotechnics, Electronics, Automatic Control and Informatics (ISSN 2344 – 4738, ISSN 1221-454X); Ioan Susnea
3. Annals of University “Dunarea de Jos” of Galati, Fascicle III Electrotechnics, Electronics, Automatic Control and Informatics (ISSN 2344 – 4738, ISSN 1221-454X); Tudorie Cornelia
4. Pecheanu, Emilia - Membru comitet Stiintific - Polish Journal of Continuing Education - 2022 , ISSN 1507-6563

**E3 Membri în conducerea unor organizații internaționale de specialitate - 0**

**E4 Cercetători din unitatea de cercetare, membri ai Academiei Române sau ai altor academii naționale - 0**

**E5 Membri de onoare (fellow, senior) ai unor societăți științifice naționale/internaționale – 0**

**E6 Premii ale Academiei Române – 0**

**E7 Referent științific al unor reviste cotate ISI sau al unor edituri internaționale de renume – 3 (45p)**

1. Applied Sciences – Ioan Susnea
2. Sensors – Ioan Susnea
3. Applied Sciences – Dan Munteanu

**E8 Referent științific al unor reviste indexate în baze de date internaționale sau al unor edituri recunoscute la nivel național – 0**

**E9 Evaluatori pentru proiecte în competiții internaționale – 0**

**E10 Evaluatori pentru proiecte în competiții internaționale - 0**

**Data: 14 martie 2022**

**Director,  
prof. Dr. Ing. Luminița Dumitriu**