

# RAPORT ACTIVITATE <sup>1</sup>

pe anul 2024

## 1. Datele de identificare ale unității de cercetare (UC)

1.1. Denumirea UC <sup>2</sup>: Sisteme integrate de conversie a energiei și conducere avansată a proceselor complexe - **SICECAPC**

1.2. Document de înființare și anul de înființare <sup>3</sup>: Certificat nr. 142-CC-C, CNCSIS, Bucuresti 14.05.2002

1.3. Adresa UC: Str. Stiintei 2, corp Y

1.4. Telefon, fax, pagina web, e-mail: Fax: + 40-336-130 298 / + 40-336-130 299, Marian.Gaiceanu@ugal.ro

<https://www.unicer.ugal.ro/index.php/ro/prezentare-sicecapc>

<https://eemis.eu/ERIF-2000-000U-3131>

<https://eertis.eu/errf-2300-000z-2522>

## 2. Scurtă prezentare

2.1. Domeniul fundamental/ramura de știință <sup>4</sup>: Științe ingineresti / Inginerie electrică, electronică și telecomunicații

2.2. Directii de cercetare-dezvoltare/obiective de cercetare/priorități de cercetare

a. domenii principale de cercetare-dezvoltare-inovare

Domenii de specializare inteligentă (SNCDI 2014-2020), după cum urmează:

- Energie, mediu și schimbări climatice
- Tehnologii informaționale și de comunicații, spațiu și securitate
- Materiale, procese și produse inovative (servicii/microproducție).

b. domenii secundare de cercetare-dezvoltare-inovare

Centrul SICECAPC dezvoltă direcții de cercetare, dezvoltare și inovare:

- Sisteme integrate de conversie a energiilor regenerabile (microcogenerare, microtrigenerare, fotovoltaică, eoliană)
- Calitatea energiei și eficiența energetică a rețelelor centralizate și descentralizate
- Sisteme regenerative de acționări electrice

<sup>1</sup> La Raportare se va avea în vedere doar activitatea desfășurată de membrii titulari (Mt) ai UC

<sup>2</sup> Inclusiv acronim.

<sup>3</sup> Se specifică numărul Hotărârii de Senat și data aprobării

<sup>4</sup> În acord cu HOTĂRÂREA Nr. 433/2022 privind aprobarea Nomenclatorului domeniilor și al specializărilor/programelor de studii universitare și a structurii instituțiilor de învățământ superior pentru anul universitar 2022-2023

- Conducerea automată a sistemelor de producere/consum a energiei electrice (conducerea automată a sistemelor de conversie a energiei eoliene, optimizarea conversiei electromecanice la receptoarele clasice)
- Conducerea roboților omnidirecționali

#### c. servicii / microproducție

- ♦ Servicii de consultanță, expertize și transfer tehnologic pentru mediul socio-economic ([http://ugal.ro/files/cercetare/2017/0\\_Catalog\\_SICECAPC1.pdf](http://ugal.ro/files/cercetare/2017/0_Catalog_SICECAPC1.pdf)),:
- ♦ Studii privind alegerea și implementarea sistemelor de acționare electrică cu performanțe energetice ridicate
- ♦ Studii privind alegerea și dimensionarea sistemelor regenerative de acționare electrică
- ♦ Proiectarea, instalarea și punerea în funcțiune a sistemelor cu logică programabilă (PLC) pentru comanda acțiunilor electrice
- ♦ Acționări electrice și convertoare statice inteligente
- ♦ Studii privind modernizarea instalațiilor industriale în vederea reducerii consumului de energie electrică
- ♦ Studii privind optimizarea consumului de energie în companii/întreprinderi
- ♦ Proiectarea și realizarea sistemelor de acționare electrică optimale
- ♦ Studii privind calitatea energiei electrice în rețelele electrice de joasă tensiune, rezolvarea problemelor legate de calitatea energiei electrice
- ♦ Proiectarea și realizarea filtrelor active de putere de tip paralel pentru creșterea calității energiei electrice și compensarea puterii reactive
- ♦ Proiectarea și realizarea convertoarelor statice de putere, pentru creșterea calității energiei electrice
- ♦ Studii privind sursele de energie electrică pe bază de energii regenerabile. Integrarea și funcționarea surselor de energie electrică, pe bază de energii regenerabile în echipamente industriale, în rețele electrice
- ♦ Proiectarea și realizarea convertoarelor statice de putere, pentru integrarea și funcționarea surselor de energie electrică pe bază de energii regenerabile în rețele electrice
- ♦ Defectoscopia și mentenanța predictivă și preventivă a mașinilor electrice de curent alternativ
- ♦ Sisteme integrate de conversie a energiei și conducere avansată a proceselor complexe.

### 3. Structura de conducere a UC

Coordonator (Director/ Responsabil UC): Prof. dr. habil. ing. Marian Găiceanu

Consiliul de coordonare/științific: Conf.dr.ing. Ion Voncilă

### 4. Structura resursei umane

Numărul total de membri 25, din care:

a. Număr membri titulari<sup>5</sup>: 17

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<sup>5</sup> Numai pe baza adeziunii aprobate de Responsabilul UC

- b. Număr membri asociați: 1
- c. Conducători de doctorat<sup>6</sup>: 2 (Anexa 2.1)
- d. Număr de tineri cercetatori (postdoctoranzi, doctoranzi, masteranzi etc): 6
  - a) Contribuții privind acționarea și conducerea vehiculelor autonome omnidireționale cu 4 roți motoare și directoare (Seekur), domeniul de doctorat- Inginerie electrică, nume doctorand ing. Razvan Buhosu, nume conducator de doctorat Prof.dr.habil.ing. Marian Găiceanu;
  - b) Conducerea inteligentă a procesului de laminare a tablei, domeniul de doctorat- Inginerie electrică, nume doctorand ing. Solomon Marius, nume conducator de doctorat Prof.dr.habil.ing. Marian Găiceanu
  - c) Contribuții privind protecția antipertubativă a sistemelor de comunicații de la bordul navelor militare, domeniul de doctorat- Inginerie electrică, nume doctorand ing. Solcanu Vasile, teza sustinuta public decembrie 2024, nume conducator de doctorat Prof.dr.habil.ing. Marian Găiceanu
  - d) Contributii privind monitorizarea si controlul calitatii energiei electrice prin convertoare statice de putere, Marin George Andrei, nume conducator de doctorat Prof.dr.habil.ing. Marian Găiceanu
  - e) Contribuții privind creșterea eficienței energetice în acționări electrice, Doctorand ing. Necula Raluca nume conducator de doctorat Prof.dr.habil.ing. Marian Găiceanu
  - f) Contribuții privind sistemele de monitorizare și control în acționări electrice, drd.ing. Stănescu Ionel, nume conducator de doctorat Prof.dr.habil.ing. Marian Găiceanu
- e. Număr ingineri/tehnicieni: 2

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

- 5.1. Laboratoare/ compartimente<sup>7</sup>: 6 Anexa 5.2
- 5.2. Echipamente, instalații și software de interes național pentru cercetare fundamentală, dezvoltare tehnologică și inovare<sup>8</sup>: Anexa 5.3
  - 1. Platformă de cogenerare
  - 2. Platformă de conducere roboți omnidirecționali
  - 3. Platformă de calitatea energiei și eficiență energetică
  - 4. Platformă de sisteme regenerative de acționare electrică
  - 5. Platformă de conducere automată a sistemelor de conversie a energiei eoliene/optimizarea conversiei electromecanice la receptoarele clasice
  - 6. Platformă sisteme eoliene și fotovoltaice/sisteme de microcogenerare

## **6. Contracte de cercetare derulate<sup>9</sup>**

<sup>6</sup> Nume, prenume, domeniul de doctorat.

<sup>7</sup> Se vor nominaliza laboratoarele, responsabilul si principale direcțiile de cercetare.

<sup>8</sup> Se se vor enumera numai acele laboratoare si acele echipamente care au fost folosite in activitatea de cercetare din ultimii 2 ani); Se vor nominaliza 1-2 repere reprezentative la nivel de universitate, regional și național.

6.1. Contracte câștigate în competiții:

- internaționale: 2
- naționale: 2

6.2. Contracte cu agenți economici:

- din străinătate:
- din țară: 7

## **7. Finanțarea UC din fonduri proprii UDJG<sup>10</sup>**

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

8.1. Rezultate ale activității CDI (cercetare fundamentală și aplicativă)<sup>11</sup>

|               |                                                                                                                                                        | <b>Nr.</b> |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>8.1.1</b>  | Lucrări publicate în reviste cotate ISI                                                                                                                | 4          |
| <b>8.1.2</b>  | Factor de impact cumulat al lucrărilor cotate ISI                                                                                                      | 11,45      |
| <b>8.1.3</b>  | Citări în reviste de specialitate cotate ISI                                                                                                           | 83         |
| <b>8.1.4</b>  | Lucrări științifice/tehnice în reviste indexate în baze de date internaționale                                                                         | 8          |
| <b>8.1.5</b>  | Comunicări științifice prezentate la conferințe internaționale și publicate în volumele acestora                                                       | 7          |
| <b>8.1.6</b>  | Comunicări științifice prezentate la conferințe naționale și publicate în volumele acestora                                                            | 1          |
| <b>8.1.7</b>  | Brevete de invenție (solicitate / acordate)                                                                                                            | 1          |
| <b>8.1.8</b>  | Citări în sistemul ISI ale lucrărilor de cercetare/ brevete                                                                                            | 48         |
| <b>8.1.9</b>  | Produse/servicii/tehnologii rezultate din activități de cercetare, bazate pe brevete, omologări sau inovații proprii.                                  | 9          |
| <b>8.1.10</b> | Studii prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice, noi sau perfecționate, comandate sau utilizate de beneficiar. | 14         |

8.2. Teze de doctorat finalizate și în derulare<sup>12</sup> 2+6

8.3. Oportunități de valorificare a rezultatelor CDI

<sup>9</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 UC) de cercetare, director, parteneri (daca este cazul), valoare totală și valoarea regie și valoarea din regie care a fost solicitată pentru întreținerea UC.

<sup>10</sup> Se va specifica valoarea finanțării și destinația acestora.

<sup>11</sup> Se vor anexa lista acestor contribuții.

<sup>12</sup> Se va anexa lista tezelor de doctorat în derulare, cu specificarea titlului, domeniul de doctorat, nume doctorand, nume conducător de doctorat.

Perioada de durabilitate 2022-2027 Titlul proiectului: “Transfer de cunoștințe privind creșterea eficienței energetice și sisteme inteligente de putere (CRESC\_INTEL)”, 2016-2022

- existența a 14 oferte de consultanță, expertize, servicii în Catalogul UDJG ([http://ugal.ro/cercetare/infrastructura-de-cercetare/\\_oferta-analize-expertize-consultanta](http://ugal.ro/cercetare/infrastructura-de-cercetare/_oferta-analize-expertize-consultanta)).

#### 8.4. Rezultate ale activității CDI valorificate și efectele obținute

Implementare algoritmi de control de timp real în filtre active de putere industriale și de laborator- funcționalitatea prototipurilor

### 9. Măsurile privind creșterea capacității activității CDI

- Organizare simpozion internațional ISEEE2025
- organizare SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS Programmes SCDS – UDJG 2025, 11th Edition of SCDS-UDJG
- **Depunere propuneri de proiecte:** 3

### 10. Măsurile pentru creșterea prestigiului și a vizibilității UC<sup>13</sup>

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

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

- târguri și expoziții internaționale;
- târguri și expoziții naționale.
- ENEFM 2024 – în calitate de profesor invitat au fost prezentate realizările obținute în urma brevetului, din cadrul proiectului Transfer de cunoștințe privind creșterea eficienței energetice și sisteme inteligente de putere (CRESC\_INTEL)”, ENEFM 2024, 10th International Congress on Energy, Efficiency and Energy Related Materials  
Chairperson: Marian Gaiceanu  
15:30-16:00  
Dunarea de Jos University of Galati, Romania  
(Marian Gaiceanu invited speaker)  
ID603- SHUNT ACTIVE POWER FILTER AS ENERGY EFFICIENCY SOLUTION

<sup>13</sup> Se va descrie detaliat fiecare acțiune realizată.

[http://www.enefmcongress.org/images/files/05v.10.09-apmas-enefm-medopt%C4%B1cs-2024\\_program\\_timetable.pdf](http://www.enefmcongress.org/images/files/05v.10.09-apmas-enefm-medopt%C4%B1cs-2024_program_timetable.pdf)

- Evenimentul s-a desfășurat între 8 și 11 octombrie 2024, a fost un prilej de realizare a transferului de idei științifice și tehnice din sfera academică în sfera productivă și a mediului de afaceri, o ocazie de promovare a creativității tehnice instituționale, ce a oferit posibilitatea dezvoltării de parteneriate pentru valorificarea rezultatelor cercetărilor inovative.
- Agenda manifestării cuprindea prezentarea ofertei de servicii de cercetare și tehnologice ale unităților de cercetare acreditate instituțional, precum și un workshop, în care atât gazdele, cât și partenerii invitați au prezentat materiale de informare privind activitatea proprie.

De asemenea, au fost prezentate studii, cercetări în sesiuni invitate, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024

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| <p><b>Lucrare științifică <u>invitată</u> la m.s. internațională organizată de instituții/asociații naționale</b></p> <p>1. <u>Marian Găiceanu</u>, Răzvan Buhosu, Răzvan Șolea, Vasile Solcanu, Marius George Solomon, Wireless Power Transfer of the Machines and Devices for Mine Integration, INVITED LECTURES, ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES, SECTION 5, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024 <a href="https://cssd-udjg.ugal.ro/index.php/programme">https://cssd-udjg.ugal.ro/index.php/programme</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p><b>Lucrare științifică <u>prezentată oral sau poster</u> la m.s. internațională organizată de instituții/asociații naționale</b></p> <p>1. Marin George-Andrei, Marian Gaiceanu , , Improving Power Factor in a Real Three-Phase Power System, ORAL PRESENTATIONS, ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES, SECTION 5, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024 <a href="https://cssd-udjg.ugal.ro/index.php/programme">https://cssd-udjg.ugal.ro/index.php/programme</a></p> <p>2. Marin George-Andrei, Marian Gaiceanu , Optimizing Energy Consumption for Sinter Cooling Fans Motors Within the Control Loop, ORAL PRESENTATIONS, ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES, SECTION 5, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024 <a href="https://cssd-udjg.ugal.ro/index.php/programme">https://cssd-udjg.ugal.ro/index.php/programme</a></p> <p>3. Marius-George Solomon, Marian Găiceanu, Vasile Solcanu, Optimizing the Operation of a Three-Phase Asynchronous Motor Considering the Thermal Regime and Technological Requirements, ORAL PRESENTATIONS, ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES, SECTION 5, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024 <a href="https://cssd-udjg.ugal.ro/index.php/programme">https://cssd-udjg.ugal.ro/index.php/programme</a></p> <p>4. Ionel Stănescu, Marian Gaiceanu, Architecture of the Telepresence System, ORAL PRESENTATIONS, ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES, SECTION 5, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024 <a href="https://cssd-udjg.ugal.ro/index.php/programme">https://cssd-udjg.ugal.ro/index.php/programme</a></p> <p>5. Marin George-Andrei, Marian Gaiceanu, Analysis of the Electrical Installation Used on a Hybrid Ship, POSTER SESSION, ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES, SECTION 5, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024 <a href="https://cssd-udjg.ugal.ro/index.php/programme">https://cssd-udjg.ugal.ro/index.php/programme</a></p> |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. Vasile Solcanu, Marian Găiceanu, Georgiana Marin, Marius Solomon, Electromagnetic Compatibility Issues on Board Military Ships, POSTER SESSION, ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES, SECTION 5, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024<br><a href="https://cssd-udjg.ugal.ro/index.php/programme">https://cssd-udjg.ugal.ro/index.php/programme</a>                 |
| 7. Răzvan Buhosu, Marian Găiceanu, Marin George- Andrei, Marius George Solomon, Power Injection into the Grid by Means of the Synchronous Machine, POSTER SESSION, ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES, SECTION 5, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024<br><a href="https://cssd-udjg.ugal.ro/index.php/programme">https://cssd-udjg.ugal.ro/index.php/programme</a> |
| 8. Răzvan Buhosu, Marian Găiceanu, Marin George- Andrei, Marius George Solomon, Electrical Vehicle Wireless Charging System, POSTER SESSION, ADVANCED RESEARCH IN ELECTRICAL / ELECTRONIC ENGINEERING, SYSTEM ENGINEERING AND INFORMATION TECHNOLOGIES, SECTION 5, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS, Doctoral School of Fundamental and Engineering Sciences, The 12th Edition, 6th-7th of June 2024<br><a href="https://cssd-udjg.ugal.ro/index.php/programme">https://cssd-udjg.ugal.ro/index.php/programme</a>                       |

10.3. Premii obținute prin proces de selecție/distincții, etc. **3 premii**

10.4. Prezentarea activității de mediatizare:

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

## 11. Concluzii

Performanța în cercetarea științifică dovedita a membrilor SICECAPC este reflectată prin 4 articole publicate în reviste cotate ISI - Web of Science (Thomson Reuters) și 8 lucrări științifice/tehnice în reviste indexate în baze de date internaționale. Factorul de impact cumulat al lucrărilor cotate ISI pentru SICECAPC este IF 11,45. Impactul publicațiilor membrilor SICECAPC este relevant prin 83 de citări în reviste de specialitate cotate ISI și 48 de citări în sistemul ISI ale lucrărilor de cercetare/ brevete.

Capacitatea de a atrage fonduri de cercetare este reliefată de numărul de granturi câștigate /derulate de membrii unității de cercetare finanțate din fonduri internaționale și naționale, prin contracte extrabugetare câștigate /derulate de membrii unității de cercetare, finanțate din fonduri naționale, precum și prin propuneri de proiecte elaborate de membrii UC în cadrul competițiilor naționale/internaționale.

De asemenea, SICECAPC organizează manifestări științifice (simpozioane) sau ateliere de lucru.

Capacitatea de a dezvolta servicii, tehnologii, produse se bazează pe numărul de cereri de brevet înregistrate la nivel național de către membrii UC, 9 produse/servicii/tehnologii rezultate din activități de cercetare, bazate pe brevete, omologări sau inovații proprii și 14 studii prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice, noi sau perfecționate, comandate sau utilizate de beneficiar.

Capacitatea de a pregăti superior tineri cercetători este dovedită prin existența unui conducător de doctorat în domeniul Inginerie electrice, care activează în unitatea de cercetare, iar un număr de 6 doctoranzi își desfășoară studii doctorale în unitatea de cercetare.

Prestigiul științific este accentuat prin activarea ca membru CNATDCU, în perioada 2016-2024, a domnului prof. dr. habil. ing. Marian Găiceanu, respectiv 2024-2025 a domnului prof. dr. ing. Nicolae Badea, precum și calitatea de membri în colectivele editoriale ale unor reviste

internaționale (cotate de Web of Science, Thomson Reuters) sau ale unor edituri internaționale, de către membrii UC.

Alte componente doveditoare a prestigiului științific sunt indeplinite de către membrii UC în calitate de membri în conducerea unor organizații internaționale de specialitate, referenți științifici al unor reviste cotate ISI sau al unor edituri internaționale de renume, referenți științifici al unor reviste indexate în baze de date internaționale sau al unor edituri recunoscute la nivel național, evaluatori pentru proiecte în competiții internaționale și evaluatori pentru proiecte în competiții internaționale.

Data: 31.03.2025

Responsabil/ Director UC

Prof. dr. habil. ing. Marian Găiceanu

## ANEXE

### 4.c. Conducători de doctorat din cadrul UC

| Nr.crt. | Nume și Prenume                    | Domeniul de doctorat |
|---------|------------------------------------|----------------------|
| 1.      | Prof.dr.habil.ing. Marian Găiceanu | Inginerie Electrică  |
| 2.      | Prof.emerit dr.ing. Emil ROȘU      | Inginerie Electrică  |

### 5.1 Laboratoare/ compartimente ale UC

| Nr.crt. | Denumire Laborator/ Compartiment UC                                                                                             | Responsabil Laborator/<br>Compartiment                                               | Direcții de cercetare                                                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1.      | Sisteme de microtrigenerare                                                                                                     | Prof.Badea Nicolae, Ș.I.dr.ing.<br>Ion Paraschiv                                     | Sisteme de microtrigenerare                                                                                                     |
| 2.      | Sisteme eoliene și fotovoltaice / sisteme de microcogenerare                                                                    | Prof.dr.ing. Nicolae Badea,<br>Conf.dr.ing. Ion Voncilă                              | Sisteme eoliene și fotovoltaice/sisteme de microcogenerare                                                                      |
| 3.      | Calitatea energiei și eficiență energetică a rețelelor centralizate și descentralizate                                          | Prof.dr.habil. ing. Marian Găiceanu                                                  | Calitatea energiei și eficiență energetică a rețelelor centralizate și descentralizate                                          |
| 4.      | Sisteme regenerative de acționare electrică                                                                                     | Prof.dr.habil. ing. Marian Găiceanu                                                  | Sisteme regenerative de acționare electrică                                                                                     |
| 5.      | Conducerea automată a sistemelor de conversie a energiei eoliene/optimizarea conversiei electromecanice la receptoarele clasice | Conf.dr.ing. Ciprian Vlad,<br>Ș.I.dr.ing. Romeo Păduraru,<br>Ș.I.dr. Traian Munteanu | Conducerea automată a sistemelor de conversie a energiei eoliene/optimizarea conversiei electromecanice la receptoarele clasice |

|  |                                       |                        |                                       |
|--|---------------------------------------|------------------------|---------------------------------------|
|  | Conducerea roboților omnidirecționali | Drd.ing. Buhosu Razvan | Conducerea roboților omnidirecționali |
|--|---------------------------------------|------------------------|---------------------------------------|

**5.2 Echipamente, instalații și software de interes național pentru cercetare fundamentală, dezvoltare tehnologică și inovare – doar repere reprezentative la nivelul UC**

| Nr.crt. | Denumire echipament                                                                                                                         | Anul achiziției |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1.      | Platformă de cogenerare                                                                                                                     | 2011            |
| 2.      | Platformă de calitate a energiei și eficiență energetică                                                                                    | 2023            |
| 3.      | Platformă de sisteme regenerative de acționare electrică                                                                                    | 2016            |
| 4.      | Platformă de conducere automată a sistemelor de conversie a energiei eoliene/optimizarea conversiei electromecanice la receptoarele clasice | 2017            |
| 5.      | Platformă de sisteme eoliene și fotovoltaice/sisteme de microcogenerare                                                                     | 2007            |
| 6.      | Platformă de conducere roboți omnidirecționali                                                                                              | 2018            |
| 7.      | Studierea și testarea pe sistemele de distribuție                                                                                           | 2023            |
| 8.      | Studiul încercărilor electrice la nivelul clădirilor industriale                                                                            | 2023            |
| 9.      | Dedicat analizei tehnico-economice a sistemelor de energii regenerabile cu aplicabilitate în industria automotive                           | 2023            |
| 10.     | Convertor atex intrinsicaly safe hasoik I-RF modbus fibra                                                                                   | 2023            |
| 11.     | Router WI-FI WA512GM-D DA33769586                                                                                                           | 2023            |

|     |                                                                                                |      |
|-----|------------------------------------------------------------------------------------------------|------|
| 12. | Dedicat modelarii circuitelor electronice de putere PLECS                                      | 2024 |
| 13. | Convertoare dc-dc step-down in vehicule hibride si in toate vehiculele electrice               | 2024 |
| 14. | Pentru implementarea modulelor de instruire                                                    | 2024 |
| 15. | Modul instruire electronica si tehnologie digitala in automobile                               | 2024 |
| 16. | diagnoza si intretinerea unei baterii de inalta tensiune de pe vehiculele electrice si hibride | 2024 |
| 17. | Virtualizare OpenNebula Subscription                                                           | 2024 |
| 18. | Pentru surse de energie                                                                        | 2024 |
| 19. | Kit experimental pentru retea inteligenta                                                      | 2024 |
|     |                                                                                                |      |
|     |                                                                                                |      |

#### 6. Contracte/Granturi câștigate în competiții naționale/ internaționale

| Nr. crt. | Nr.contract              | Titlu proiect                                                                                  | Tip finanțare (național / internațional) | Domeniul de cercetare | UDJG coordonator / partener | Director contract                   | Perioada de derulare                            | Valoarea contractului alocata UDJG |
|----------|--------------------------|------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------|-----------------------------|-------------------------------------|-------------------------------------------------|------------------------------------|
| 1.       | Contract nr. 899469/2020 | Innovative high efficiency power system for machines and devices, increasing the level of work | Finanțare din fonduri internaționale     | Inginerie Electrică   | Partener                    | Prof.dr.habil. ing. Marian Găiceanu | 2020 – 2023, depunere raport de evaluare finala | 320.000 EURO                       |

|    |                                                                                                       |                                                                                                                                                                                                                                |                                 |                     |             |                                     |                                                       |                     |
|----|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|-------------------------------------------------------|---------------------|
|    |                                                                                                       | safety in underground mining excavations” (HEET II)”                                                                                                                                                                           |                                 |                     |             |                                     | 2024                                                  |                     |
| 2. | 12/01.09.2016<br>2016 – Programul Operațional Competitivitate, Axa 1, ID/Cod My SMIS: P_40_340/105803 | “Transfer de cunoștințe privind creșterea eficienței energetice și sisteme inteligente de putere (CRESC_INTEL)”, 2016-2022                                                                                                     | Finanțare din fonduri naționale | Inginerie Electrică | Coordonator | Prof.dr.habil. ing. Marian Găiceanu | 2020 – 2022, 2024-depunere 2 rapoarte de durabilitate | 16.560.175, 04 lei; |
| 3. | Cod proiect: BSB00264 / acronim T3N-BSB                                                               | Transnational technology Transfer Network for Black Sea Basin                                                                                                                                                                  |                                 | Inginerie Electrică | Partener    | Conf..dr. ing. Ciprian Vlad         |                                                       |                     |
| 4. | PNCDI, CNCS, Platforma de cercetare                                                                   | cod CNFIS-FDI-2024-F-0042, cu titlul <i>Acces și integrare universitară pentru succes</i>                                                                                                                                      | Finanțare din fonduri naționale | Inginerie Electrică | Coordonator | Conf..dr. ing. Ciprian Vlad         |                                                       |                     |
| 5. | Grant intern                                                                                          | RF 2642/31.05.2024 “Evaluarea performanțelor unei noi strategii de conducere a proceselor de conversie a energiei electromagnetice bazate pe tehnici RBF-NN, prin comparație cu metodele consacrate de tip MPC, cu referire la | Finanțare din fonduri UDJG      | Inginerie Electrică | Coordonator | S.l.dr.ing. Selim Elena             |                                                       |                     |

|   |              |                                                                                                                                                                                                                                                 |                                         |                     |                  |                             |  |  |
|---|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------|------------------|-----------------------------|--|--|
|   |              | motoarele PMSM"                                                                                                                                                                                                                                 |                                         |                     |                  |                             |  |  |
| 6 | Proiect UE   | "EU-PV" nr 2021-1-PL01-KA202-026279, coordonator conf.dr.ing. Emilia PECHEANU                                                                                                                                                                   | Finanțare din fonduri Uniunea Europeana |                     | Membru in echipa | S.l.dr.ing. Dumitriu Teodor |  |  |
| 7 | Grant intern | RF 2642/31.05.2024 Evaluarea performanțelor unei noi strategii de conducere a proceselor de conversie a energiei electromagnetice bazate pe tehnici RBF-NN, prin comparație cu metodele consacrate de tip MPC, cu referire la motoarele PMSM" . | Finanțare din fonduri UDJG              | Inginerie Electrică | Coordonator      | S.l.dr.ing. Costin Mădălin  |  |  |

#### Propuneri proiecte în cadrul programelor naționale și internaționale

|    |                                                                                                                                                                                                                                                    |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | GREEN4BLUE, BSB01218                                                                                                                                                                                                                               |
| 2. | KA220-VET, ID KA220-VET-7B0D8197                                                                                                                                                                                                                   |
| 3. | Grants4HEI, Erasmus-EDU-2024-CBHE, ID 101179716                                                                                                                                                                                                    |
| 4. | Propunere proiect grant intern cercetatori UDJG cu tema „Noi căi de investigare a interacțiunilor câmpurilor electrice și magnetice - generate de instalațiile electrice industriale și de pe vehiculele electrice - cu sistemele biotice” E.Selim |

#### 10. ACTIVITĂȚI PE BAZĂ DE CONTRACTE (altele decât cele de cercetare)

|                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contract de finanțare din sursa Fondul Social European (FSE) – POSCCE, POCU, TIC, POR (coordonator) – punctaj de câștigare                                 |
| proiect <b>PNRR, cod: e-PNRR 2033414941</b> , cu titlul Digitalizarea pentru viitorul educației și cercetării în Universitatea „Dunărea de Jos” din Galați |
| Septembrie 2024 Contract anual de cooperare Program pregatire profesionala ATCR Association - Students -Practical Training Center                          |

Tabel 7.2

## Teze de doctorat finalizate și în derulare

| Nr.crt. | Titlul tezei de doctorat                                                                                                                                     | Finalizat/<br>în<br>derulare | Domeniul de<br>doctorat | Numele și<br>prenumele<br>doctorandului | Numele și<br>prenumele<br>conducătorului<br>de doctorat |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------|-----------------------------------------|---------------------------------------------------------|
| 1       | <i>Contribuții la dezvoltarea unui sistem de monitorizare a pierderilor pe liniile electrice de înaltă tensiune prin supravegherea cu avioane fără pilot</i> | Finalizat<br>2020            | Inginerie<br>electrică  | Vidan J.<br>Cristian                    | Prof. dr.<br>Găiceanu<br>Marian                         |
| 2       | Contribuții privind protecția antipertubativă a sistemelor de comunicații de la bordul navelor militare                                                      | Finalizat<br>2024            | Inginerie<br>electrică  | SOLCANU M.<br>VASILE                    | Prof. dr.<br>Găiceanu<br>Marian                         |
| 3       | <i>Contribuții privind acționarea și conducerea vehiculelor autonome omnidirecționale cu 4 roți motoare și directoare (Seekur)</i>                           | în derulare                  | Inginerie<br>electrică  | BUHOSU C.<br>RĂZVAN                     | Prof. dr.<br>Găiceanu<br>Marian                         |
| 4       | <i>Conducerea inteligentă a procesului de laminare a tablei</i>                                                                                              | în derulare                  | Inginerie<br>electrică  | SOLOMON<br>M. MARIUS-<br>GEORGE         | Prof. dr.<br>Găiceanu<br>Marian                         |
| 5       | <i>Contribuții privind sistemele de monitorizare și control în acționări electrice</i>                                                                       | în derulare                  | Inginerie<br>electrică  | Stănescu Ionel                          | Prof. dr.<br>Găiceanu<br>Marian                         |
| 6       | Contributii privind monitorizarea si controlul calitatii energiei electrice prin convertoare statice de putere                                               | în derulare                  | Inginerie<br>electrică  | Marin George<br>Andrei                  | Prof. dr.<br>Găiceanu<br>Marian                         |

Tabel 7.1.1.

## Articole în reviste cotate ISI

| Nr.crt. | Date de identificare articol<br>(Autori, Titlu, cod DOI articol, Titlul revistei, anul publicării)                                                                                                                                                                                                                                                                                                                                                                                    | Factor de impact |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1.      | 1. <a href="#">Costin, M.; Lazar, C. Induction Motor Improved Vector Control Using Predictive and Model-Free Algorithms Together with Homotopy-Based Feedback Linearization. <i>Energies</i> <b>2024</b>, <i>17</i>, 875. <a href="https://doi.org/10.3390/en1704087">https://doi.org/10.3390/en1704087</a></a>                                                                                                                                                                       |                  |
| 2.      | 2. <a href="#">Costin, M.; Bivol, I. A New Paradigm in AC Drive Control: Data-Driven Control by Learning Through the High-Efficiency Data Set—Generalizations and Applications to a PMSM Drive Control System. <i>Sensors</i> <b>2024</b>, <i>24</i>, 7313. <a href="https://doi.org/10.3390/s24227313">https://doi.org/10.3390/s24227313</a></a>                                                                                                                                     |                  |
| 3.      | 1.C. Vlad, N.Badea si altii - <i>Using Machine Learning Methods for Contactless Monitoring of Abnormality in Breathing Patterns-</i> BRAIN. Broad Research in Artificial Intelligence and Neuroscience<br>e-ISSN: 2067-3957   p-ISSN: 2068-0473, IF=0.8 2025, Volume 16, Issue<br>1, pages: 31-49. Submitted: September 2nd, 2024   Accepted for<br>publication: November 5th, 2024<br>DOI: <a href="https://doi.org/10.70594/brain/16.1/3">https://doi.org/10.70594/brain/16.1/3</a> |                  |
| 4.      | 1. Djamel Ikni, Elena Raducan, 'Stability Analysis of a Wind Turbine Controlled by Direct Torque Control', Journal of Energie, MDPI, <i>Energies</i> <b>2024</b> , <i>17</i> , 2488. <a href="https://doi.org/10.3390/en17112488">https://doi.org/10.3390/en17112488</a> , <a href="https://www.mdpi.com/1996-1073/17/11/2488">https://www.mdpi.com/1996-1073/17/11/2488</a>                                                                                                          |                  |

### 8.1.2 Factor de impact cumulat al lucrărilor cotate ISI

|                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Factor de impact                                                                                                                                                                                                                                                                                                                                           |
| 1. <b>Costin, M.</b> ; Lazar, C. Induction Motor Improved Vector Control Using Predictive and Model-Free Algorithms Together with Homotopy-Based Feedback Linearization. <i>Energies</i> <b>2024</b> , <i>17</i> , 875. <a href="https://doi.org/10.3390/en1704087">https://doi.org/10.3390/en1704087</a> <b>=3,25</b>                                     |
| 2. <b>Costin, M.</b> ; Bivol, I. A New Paradigm in AC Drive Control: Data-Driven Control by Learning Through the High-Efficiency Data Set—Generalizations and Applications to a PMSM Drive Control System. <i>Sensors</i> <b>2024</b> , <i>24</i> , 7313. <b>=3.4</b><br><a href="https://doi.org/10.3390/s24227313">https://doi.org/10.3390/s24227313</a> |
| Factor de impact BRAIN. Broad Research in Artificial Intelligence and Neuroscience <b>IF=0.8</b>                                                                                                                                                                                                                                                           |

|                                |
|--------------------------------|
| Factor de impact Energies IF=4 |
| Total=3,25+3,4+0,8+4           |
| Total IF=11,45                 |

**Tabel 7.1.4.**

**Articole în reviste indexate BDI**

| Nr.crt. | Date de identificare articol<br>(Autori, Titlu articol, Volum, pagină / nr. articol )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Denumirea<br>bazei de<br>date |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1.      | 1 Power Efficiency and Availability Computation with Stochastic Events Models<br>Dumitrescu, Mariana University 'Dunarea de Jos' Galati, Automation and Electrical Engineering Department, Romania - Proceedings EMES 2023 Oradea; ISBN 979-835031063-4,<br>DOI 10.1109/EMES58375.2023.10171710<br><a href="https://ieeexplore.ieee.org/document/10171710">https://ieeexplore.ieee.org/document/10171710</a><br><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85166327960&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sid=7bc30d0ea5066dfc09a71092913c5d01&amp;sot=b&amp;sdt=b&amp;s=%28AUTHOR-NAME%28dumitrescu+m%29+AND+AFFIL%28galati%29%29&amp;sl=45&amp;sessionSearchId=7bc30d0ea5066dfc09a71092913c5d01&amp;relpos=1">https://www.scopus.com/record/display.uri?eid=2-s2.0-85166327960&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sid=7bc30d0ea5066dfc09a71092913c5d01&amp;sot=b&amp;sdt=b&amp;s=%28AUTHOR-NAME%28dumitrescu+m%29+AND+AFFIL%28galati%29%29&amp;sl=45&amp;sessionSearchId=7bc30d0ea5066dfc09a71092913c5d01&amp;relpos=1</a>        | Scopus                        |
| 2.      | 2 Operational Risk Analysis for the Electric Power Station Protections<br>Dumitrescu, Mariana University 'Dunarea de Jos' Galati, Automation and Electrical Engineering Department, Romania – Proceedings ISEEE23 Galati 2023 Pages 38 – 43, ISBN 979-835030167-0, DOI10.1109/ISEEE58596.2023.10310549<br><a href="https://ieeexplore.ieee.org/document/10310549">https://ieeexplore.ieee.org/document/10310549</a><br><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85179507625&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sid=7bc30d0ea5066dfc09a71092913c5d01&amp;sot=b&amp;sdt=b&amp;s=%28AUTHOR-NAME%28dumitrescu+m%29+AND+AFFIL%28galati%29%29&amp;sl=45&amp;sessionSearchId=7bc30d0ea5066dfc09a71092913c5d01&amp;relpos=0">https://www.scopus.com/record/display.uri?eid=2-s2.0-85179507625&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sid=7bc30d0ea5066dfc09a71092913c5d01&amp;sot=b&amp;sdt=b&amp;s=%28AUTHOR-NAME%28dumitrescu+m%29+AND+AFFIL%28galati%29%29&amp;sl=45&amp;sessionSearchId=7bc30d0ea5066dfc09a71092913c5d01&amp;relpos=0</a> | Scopus                        |
| 3.      | 3 Composite Algorithm and Application for Operational Fuzzy Risk Computing<br>Dumitrescu, Mariana University 'Dunarea de Jos' Galati, Automation and Electrical Engineering Department, Romania - Proceedings EMES 2023 IEEE International Conference on Engineering of Modern Electric Systems , Oradea; ISBN 979-835031063-4,<br>DOI 10.1109/EMES58375.2023.10171767                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Scopus                        |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|    | <a href="https://ieeexplore.ieee.org/document/10171767">https://ieeexplore.ieee.org/document/10171767</a><br><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85166295860&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sid=7bc30d0ea5066dfc09a71092913c5d01&amp;sot=b&amp;sdt=b&amp;s=%28AUTHOR-NAME%28dumitrescu+AND+m%29+AND+AFFIL%28galati%29%29&amp;sl=45&amp;sessionSearchId=7bc30d0ea5066dfc09a71092913c5d01&amp;relpos=2">https://www.scopus.com/record/display.uri?eid=2-s2.0-85166295860&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sid=7bc30d0ea5066dfc09a71092913c5d01&amp;sot=b&amp;sdt=b&amp;s=%28AUTHOR-NAME%28dumitrescu+AND+m%29+AND+AFFIL%28galati%29%29&amp;sl=45&amp;sessionSearchId=7bc30d0ea5066dfc09a71092913c5d01&amp;relpos=2</a> |  |
| 4. | Badea N, Vlad C, Lungu C, GREEN HYDROGEN – THE FUEL OF THE FUTURE. OVERVIEW. The Annals of “Dunarea de Jos” University of Galati. Fascicle III, Electrotechnics, Electronics, Automatic Control, Informatics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 5. | Elena Selim, <b>Ion Voncilă - Predictive control of an induction machine drive system for field-weakening regime</b> – Studia Universitatis Babeş-Bolyai, Volume 69, No. 1, November 2024, pp. 32 – 41. DOI: <a href="https://doi.org/10.24193/subbeng.2024.1.3">https://doi.org/10.24193/subbeng.2024.1.3</a> , <b>EBSCOhost</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 6. | 1. <b>M. Costin</b> and C. Lazar, "Cascaded Predictive Speed Control and Load Torque Rejection of PMSM," <i>2024 28th International Conference on System Theory, Control and Computing (ICSTCC)</i> , Sinaia, Romania, 2024, pp. 200-205, doi: 10.1109/ICSTCC62912.2024.10744679.<br><a href="https://ieeexplore.ieee.org/document/10744679">https://ieeexplore.ieee.org/document/10744679</a>                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 7. | 2. <b>M. Costin</b> and I. Bivol, "From Model Predictive Control to Data Driven Control to Meet High Efficiency Objective of a PMSM Drive System," <i>2024 International Conference on Applied and Theoretical Electricity (ICATE)</i> , Craiova, Romania, 2024, pp. 1-6, doi: 10.1109/ICATE62934.2024.10748645.<br><a href="https://ieeexplore.ieee.org/document/10748645">https://ieeexplore.ieee.org/document/10748645</a>                                                                                                                                                                                                                                                                                                                                                          |  |
| 8. | . M. Gaiceanu, R. Buhosu, R. Solea, E. Silviu, K. Stankiewicz and M. Skora, "Underground Mine Monitoring System," <i>2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC)</i> , Brasov, Romania, 2022, pp. 715-720, doi: 10.1109/PEMC51159.2022.9962893.<br><a href="https://ieeexplore.ieee.org/document/9962893">https://ieeexplore.ieee.org/document/9962893</a> (indexata WOS 2024)                                                                                                                                                                                                                                                                                                                                                                 |  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |

#### Comunicări științifice prezentate la conferințe naționale

| Nr.crt. | Autori, Titlul lucrării                                                                                                                                              | Titlul conferinței | Perioada | Organizator |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|-------------|
|         |                                                                                                                                                                      |                    |          |             |
| 1.      | Conferinta GALATIA 2024, 15-19 Mai, Galati, lucrare: Investigating the use of machine learning methods to contactless monitoring of abnormality in breathing pattern |                    |          |             |

**Tabel 7.1.5.**

#### Comunicări științifice prezentate la conferințe internaționale și publicate în volumele acestora

| Nr.crt. | Autori, Titlul lucrării | Titlul conferinței | Perioada | Organizator |
|---------|-------------------------|--------------------|----------|-------------|
|         |                         |                    |          |             |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| 1. | <p>Ion Voncilă, Nicolae Badea, Ion Paraschiv, Elena Selim - <b>A New Approach to Energy Efficiency Evaluation of Induction Motor</b> - 2024 International Conference on Applied and Theoretical Electricity (ICATE), 24-26 October 2024, Craiova, Romania, <b>IEEE Catalog No. CFP2499S-USB</b><br/> <b>ISBN: 979-8-3503-8809-1 IEEE Catalog No. CFP2499S-USB</b><br/> <b>ISBN: 979-8-3503-8809-1</b><br/> <a href="https://www.semanticscholar.org/paper/A-New-Approach-to-Energy-Efficiency-Evaluation-of-Voncil%C4%83-Badea/d75304c40aab913a240a457b8952c34eb4af3c60">https://www.semanticscholar.org/paper/A-New-Approach-to-Energy-Efficiency-Evaluation-of-Voncil%C4%83-Badea/d75304c40aab913a240a457b8952c34eb4af3c60</a></p> |  |  |  |
| 2. | <p>1. 1. Hydrogen as Energy Sources-Basic Concepts<br/> Towards Next Generation Energy Storage Technologies: From Fundamentals to Commercial Applications ,Chapter 11 Fuel Cells ,<br/> <a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527845316.ch11">https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527845316.ch11</a></p>                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| 3. | <p>Embracing the aquaponic systems as a viable option for the future of aquaculture, 16th International scientific conference on Energy and Climate Chande, Athens 11th October 2024</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
| 4. | <p>1. HIGHER EDUCATION IN A HYBRID WORLD: HYBRID LEARNING IN TECHNICAL FACULTIES, Mihaela ANDREI, Laurentiu-Marius BAICU, Alina PRICOPIE-FILIP, <b>Elena SELIM</b>, Conferința Internațională „Interdisciplinaritate și Cooperare în Cercetarea Transfrontalieră” Cahul ICCR 2024</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| 5. | <p>2. ACCESSIBILITY AND INCLUSION: A PROGRAM FOR INTEGRATING STUDENTS WITH DISABILITIES INTO MAINSTREAM HIGHER EDUCATION SYSTEM<br/> <b>Elena SELIM</b>, Laurentiu Marius BAICU, Mihaela ANDREI, Alina PRICOPIE-FILIP, Conferința Internațională „Interdisciplinaritate și Cooperare în Cercetarea Transfrontalieră” Cahul ICCR 2024</p>                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
| 6. | <p>3. ROLE AND IMPACT OF DECISION FACTORS IN ENERGY EFFICIENCY MANAGEMENT, Alina-Florentina SĂRACU, Claudia-Veronica UNGUREANU, Valentina BUTMĂLAI, <b>Elena SELIM</b>, Conferința Internațională „Interdisciplinaritate și Cooperare în Cercetarea Transfrontalieră” Cahul ICCR 2024</p>                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| 7. | <p>ENEFM 2024, 10th International Congress on Energy, Efficiency and Energy Related Materials<br/> Chairperson: Marian Gaiceanu<br/> 15:30-16:00<br/> Marian Gaiceanu<br/> Dunarea de Jos University of Galati, Romania<br/> (invited speaker)<br/> ID603- SHUNT ACTIVE POWER FILTER AS ENERGY EFFICIENCY SOLUTION<br/> <a href="http://www.enefmcongress.org/images/files/05v.10.09-apmas-enefm-medopt%C4%B1cs-2024_program_timetable.pdf">http://www.enefmcongress.org/images/files/05v.10.09-apmas-enefm-medopt%C4%B1cs-2024_program_timetable.pdf</a></p>                                                                                                                                                                        |  |  |  |

**Citări în reviste de specialitate cotate ISI**

| Nr.crt. | Autori, Titlul lucrării                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Titlul conferinței | Perioada | Organizator |
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| 1.      | 1. Intelligent Models in Power Delivery Management for Economic Damage Computation - ID 5; Dumitrescu Mariana<br>The 23rd International Conference on Informatics in Economy (IE 2024), under the scientific auspices of the Information Science and Technology Section of The Romanian Academy. <a href="#">Bucharest University of Economic Studies</a> and <a href="#">The Faculty of Economics and Business Administration</a> from <a href="#">West University of Timisoara</a> , with the Romanian Association for Informatics in Economy Training Promotion – INFOREC – Springer publisher, <a href="https://www.conferenceie.ase.ro/">https://www.conferenceie.ase.ro/</a> <a href="https://link.springer.com/book/9789819601608">https://link.springer.com/book/9789819601608</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |          |             |
| 2.      | 2 Electric Network Monitoring System - Intelligent Modelling for Economic Damage Analysis - ID 10 Dumitrescu Mariana<br>The 23rd International Conference on Informatics in Economy (IE 2024), under the scientific auspices of the Information Science and Technology Section of The Romanian Academy. <a href="#">Bucharest University of Economic Studies</a> and <a href="#">The Faculty of Economics and Business Administration</a> from <a href="#">West University of Timisoara</a> , with the Romanian Association for Informatics in Economy Training Promotion – INFOREC, Springer publisher <a href="https://www.conferenceie.ase.ro/">https://www.conferenceie.ase.ro/</a> <a href="https://link.springer.com/book/9789819601608">https://link.springer.com/book/9789819601608</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |          |             |
| 3.      | 3 Decentralized Renewable Microgrids Consumers Adaptability to DC Electric Network ID 69<br>Dumitrescu M -SIITME 2024 IEEE 30 <sup>th</sup> International Symposium for Design and Technology in Electronic Packaging, Sibiu, Romania with IEEE and IEEE Hungary & Romania EPS&NTC Joint Chapter, 16th – 19th October 2024 in Sibiu, Romania. <a href="https://siitme.ro/2024-edition/oral-poster-sessions-programme/">https://siitme.ro/2024-edition/oral-poster-sessions-programme/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |          |             |
| 4.      | 4 Renewable Microgrids Power Supply - Consumers Electric Quality Comparative Study ID 70 Dumitrescu M - SIITME 2024 IEEE 30 <sup>th</sup> International Symposium for Design and Technology in Electronic Packaging, Sibiu, Romania with IEEE and IEEE Hungary & Romania EPS&NTC Joint Chapter, 16th – 19th October 2024 in Sibiu, Romania. <a href="https://siitme.ro/2024-edition/oral-poster-sessions-programme/">https://siitme.ro/2024-edition/oral-poster-sessions-programme/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |          |             |
| 5.      | 5 Natural doubling of the apparent switching frequency using three-level ANPC converter<br>D Floricau, E Floricau, M Dumitrescu - 2008 International School on Nonsinusoidal Currents ..., 2008<br><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016">https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016</a><br><a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC</a><br>Active Thermal Control and Power Loss Reduction Scheme for Three-Level Active Neutral-Point-Clamped Inverters with Hybrid Modulation<br>Song, Wensheng <sup>a</sup> ;He, Wenjun <sup>a</sup> ;Zhang, Zhiwei <sup>a</sup> ;Ma, Chenwei <sup>a</sup> ;Li, Jiayao <sup>a</sup><br><a href="#">IEEE Journal of Emerging and Selected Topics in Power Electronics</a> , Volume 12, Issue 2, Pages 1629 – 16401 April 2024, DOI 10.1109/JESTPE.2023.3349308<br><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:001244948700006">https://www.webofscience.com/wos/woscc/full-record/WOS:001244948700006</a><br><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85181581195&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Active+Thermal+Control+and+Power+Loss+Reduction+Scheme+for+Three-Level+Active+Neutral-Point-Clamped+Inverters+With+Hybrid+Modulation%29&amp;sessionSearchId=8a16081b3b734c63ec1b05279be8e88b&amp;relpos=0">https://www.scopus.com/record/display.uri?eid=2-s2.0-85181581195&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Active+Thermal+Control+and+Power+Loss+Reduction+Scheme+for+Three-Level+Active+Neutral-Point-Clamped+Inverters+With+Hybrid+Modulation%29&amp;sessionSearchId=8a16081b3b734c63ec1b05279be8e88b&amp;relpos=0</a><br><a href="https://ieeexplore.ieee.org/abstract/document/10379629">https://ieeexplore.ieee.org/abstract/document/10379629</a> |                    |          |             |

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| 6. | <p>6 Natural doubling of the apparent switching frequency using three-level ANPC converter<br/>D Florica, E Florica, M Dumitrescu - 2008 International School on Nonsinusoidal Currents ..., 2008<br/><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016">https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016</a><br/><a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC</a><br/>Multiresolution Models of DC Traction Power Supply Systems With Reversible Substations<br/>Fan, Fulina, ;Li, Yafangc;Ziani, Smaild;Stewart, Brian G.b<br/>IET Electrical Systems in Transportation, Volume 2024, Issue 12024 , Article number 8279648, DOI 10.1049/2024/8279648<br/><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:001348310700001">https://www.webofscience.com/wos/woscc/full-record/WOS:001348310700001</a><br/><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85207098866&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Multiresolution+Models+of+DC+Traction+Power+Supply+Systems+With+Reversible+Substations%29&amp;sessionSearchId=1afe1efad019226d3f4fdccddc35f806&amp;relpos=0">https://www.scopus.com/record/display.uri?eid=2-s2.0-85207098866&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Multiresolution+Models+of+DC+Traction+Power+Supply+Systems+With+Reversible+Substations%29&amp;sessionSearchId=1afe1efad019226d3f4fdccddc35f806&amp;relpos=0</a><br/><a href="https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/2024/8279648">https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/2024/8279648</a></p> |
| 7. | <p>7_A new stacked NPC converter: 3L-topology and control<br/>D Florica, G Gateau, M Dumitrescu, R Teodorescu<br/>2007 European Conference on Power Electronics and Applications, 1-10<br/><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000255993600028">https://www.webofscience.com/wos/woscc/full-record/WOS:000255993600028</a><br/><a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u5HHmVD_uO8C">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u5HHmVD_uO8C</a><br/>Hybrid renewable energy system based on Petri nets control for a single-phase flying capacitor multilevel DC–AC converter<br/>Othman, Sana; Barbot, Jean-Pierre<sup>b</sup>; Sbata, Lassaad; Alali, Mohamad Alaaeddin; GHANES, Malek; FEKIK, Arezki<sup>d</sup><br/><a href="#">Power Electronics Converters and their Control for Renewable Energy Applications</a>Pages 145 - 1661 January 2023 Document type Book Chapter, ISBN 978-032391941-8, 978-032391403-1, DOI 10.1016/B978-0-323-91941-8.00007-X<br/><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85166130801&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-51049109616&amp;src=s&amp;imp=t&amp;sid=9aa6bb436528467b795e9d4a91225517&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=4&amp;citeCnt=4&amp;searchTerm=">https://www.scopus.com/record/display.uri?eid=2-s2.0-85166130801&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-51049109616&amp;src=s&amp;imp=t&amp;sid=9aa6bb436528467b795e9d4a91225517&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=4&amp;citeCnt=4&amp;searchTerm=</a></p>                                                                                                                                                                                                              |
| 8. | <p>8 Natural doubling of the apparent switching frequency using three-level ANPC converter<br/>D Florica, E Florica, M Dumitrescu - 2008 International School on Nonsinusoidal Currents ..., 2008<br/><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016">https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016</a><br/><a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC</a><br/>Design for Reliability of DC-Link Capacitors for Multilevel Inverter Topologies Operating in Hostile Environments<br/>Silva, Caio Eduardo, Alzamora, Andre M.' Evo, Marco T. A., De Paula, Helder<br/><a href="#">IEEE Transactions on Industry Applications</a>Volume 60, Issue 4, Pages 5882 – 58922024, DOI 10.1109/TIA.2024.3382268, Date of Publication: 27 March 2024</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|     | <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:001273958700025">https://www.webofscience.com/wos/woscc/full-record/WOS:001273958700025</a><br><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85189331866&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Design+for+Reliability+of+DC-Link+Capacitors+for+Multilevel+Inverter+Topologies+Operating+in+Hostile+Environments%29&amp;sessionSearchId=a6cb6d8dec22cb96524b3e461ad4d9a7&amp;relpos=0">https://www.scopus.com/record/display.uri?eid=2-s2.0-85189331866&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Design+for+Reliability+of+DC-Link+Capacitors+for+Multilevel+Inverter+Topologies+Operating+in+Hostile+Environments%29&amp;sessionSearchId=a6cb6d8dec22cb96524b3e461ad4d9a7&amp;relpos=0</a><br><a href="https://ieeexplore.ieee.org/abstract/document/10480635">https://ieeexplore.ieee.org/abstract/document/10480635</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9.  | <p>9 Natural doubling of the apparent switching frequency using three-level ANPC converter<br/> D Floricau, E Floricau, M Dumitrescu - 2008 International School on Nonsinusoidal Currents ..., 2008<br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016">https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016</a><br/> <a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC</a><br/> Design for Reliability (DFR) of DC-Link Capacitors for Multilevel Inverter Topologies Operating in Hostile Environments<br/> Silva, Caio Eduardo; Alzamora, Andre, Evo, Marco T. A., De Paula,<br/> <a href="#">Record of Conference Papers – Annual Petroleum and Chemical Industry Conference</a>, Pages 383 – 392 2023 IEEE IAS Petroleum and Chemical Industry Technical Conference, PCIC 2023, New Orleans 11 September 2023, code 197055, DOI 10.1109/PCIC43643.2023.10414338<br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:001204460700036">https://www.webofscience.com/wos/woscc/full-record/WOS:001204460700036</a><br/> <a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85185553451&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Design+for+Reliability+of+DC-Link+Capacitors+for+Multilevel+Inverter+Topologies+Operating+in+Hostile+Environments%29&amp;sessionSearchId=a6cb6d8dec22cb96524b3e461ad4d9a7&amp;relpos=1">https://www.scopus.com/record/display.uri?eid=2-s2.0-85185553451&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Design+for+Reliability+of+DC-Link+Capacitors+for+Multilevel+Inverter+Topologies+Operating+in+Hostile+Environments%29&amp;sessionSearchId=a6cb6d8dec22cb96524b3e461ad4d9a7&amp;relpos=1</a></p>                                                                                                                                                                 |
| 10. | <p>10 Natural doubling of the apparent switching frequency using three-level ANPC converter<br/> D Floricau, E Floricau, M Dumitrescu - 2008 International School on Nonsinusoidal Currents ..., 2008<br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016">https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016</a><br/> <a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC</a><br/> Mission profile-based operation strategies to improve the reliability of an ANPC inverter in future electrified aircraft propulsion systems<br/> Cao, Yongtao<sup>a</sup>; Lyu, Hongchang<sup>b</sup>; Mertens, Axel<sup>a, b</sup><br/> <a href="#">2024 IEEE Transportation Electrification Conference and Expo, ITEC 2024</a>, IEEE Transportation Electrification Conference and Expo, Chicago, June 2024 Code 20123, DOI 10.1109/ITEC60657.2024.10598878<br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:001285069900042">https://www.webofscience.com/wos/woscc/full-record/WOS:001285069900042</a><br/> <a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85200708123&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Mission+profile-based+operation+strategies+to+improve+the+reliability+of+an+ANPC+inverter+in+future+electrified+aircraft+propulsion+systems%29&amp;sessionSearchId=1684f25de8233d626cf03d3ae30f9ec2&amp;relpos=0">https://www.scopus.com/record/display.uri?eid=2-s2.0-85200708123&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Mission+profile-based+operation+strategies+to+improve+the+reliability+of+an+ANPC+inverter+in+future+electrified+aircraft+propulsion+systems%29&amp;sessionSearchId=1684f25de8233d626cf03d3ae30f9ec2&amp;relpos=0</a><br/> <a href="https://ieeexplore.ieee.org/abstract/document/10598878">https://ieeexplore.ieee.org/abstract/document/10598878</a></p> |

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| 11.     | <p>11 Natural doubling of the apparent switching frequency using three-level ANPC converter<br/>D Floricau, E Floricau, M Dumitrescu - 2008 International School on Nonsinusoidal Currents ..., 2008<br/><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016">https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016</a><br/><a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC</a></p> <p>Hybrid Neutral Point Clamped Converter: Review and Comparison to Traditional Topologies<br/>Zakzewski, Daniel, Resalayyan, Rakesh, Khaligh, Alireza<br/>Institute for Systems Research, University of Maryland, Maryland Power Electronics Laboratory, Department of Electrical and Computer Engineering, College Park, 20742, MD, United States<br/><a href="#">IEEE Transactions on Transportation Electrification</a> Volume 10, Issue 3, Pages 6087 – 6099, 2024, DOI 10.1109/TTE.2023.3348241<br/><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:001319573400084">https://www.webofscience.com/wos/woscc/full-record/WOS:001319573400084</a><br/><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85181577587&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-55149086849&amp;src=s&amp;imp=t&amp;sid=cf82221321c53779452847fae32239cd&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=8&amp;citeCnt=4&amp;searchTerm=">https://www.scopus.com/record/display.uri?eid=2-s2.0-85181577587&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-55149086849&amp;src=s&amp;imp=t&amp;sid=cf82221321c53779452847fae32239cd&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=8&amp;citeCnt=4&amp;searchTerm=</a></p>                                                               |
| 12.     | <p>12 Natural doubling of the apparent switching frequency using three-level ANPC converter<br/>D Floricau, E Floricau, M Dumitrescu - 2008 International School on Nonsinusoidal Currents ..., 2008<br/><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016">os/woscc/full-record/WOS:000261799200016</a><br/><a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC</a></p> <p>Future-proofing city power grids: FID-based efficient interconnection strategies for major load-centred environments<br/>Guo, Peiqian<sup>a</sup>; Tian, Zhongbei<sup>a</sup>; Yuan, Zhichang<sup>b</sup>; Qu, Lu<sup>b</sup>; Zhang, Xiao-Yu<sup>c</sup>; Zhang, Xiao-Ping<sup>a</sup><br/><a href="#">IET Renewable Power Generation</a> Open Access Volume 18, Issue 15, Pages 3003 - 3019 16 November 2024, DOI 10.1049/rpg2.13027<br/><a href="https://www.webofscience.com/wos/woscc/full-record/WOS:001253854800001">https://www.webofscience.com/wos/woscc/full-record/WOS:001253854800001</a><br/><a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85196638776&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Future-proofing+city+power+grids%3A+FID-based+efficient+interconnection+strategies+for+major+load-centred+environments%29&amp;sessionSearchId=af2f4ccc6bcb8b5136cc804145bb6cb3&amp;relpos=0">https://www.scopus.com/record/display.uri?eid=2-s2.0-85196638776&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Future-proofing+city+power+grids%3A+FID-based+efficient+interconnection+strategies+for+major+load-centred+environments%29&amp;sessionSearchId=af2f4ccc6bcb8b5136cc804145bb6cb3&amp;relpos=0</a></p> |
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|     | <p>1 referință bibliografică nouă la articolele dvs.</p> <div> <div>  <div> Aler. Google Academic<br/> Către: marian.gaiceanu@ieee.org </div> </div> <div> <div> Răspuns<br/> Răspuns tuturor<br/> Redirecționare </div> <div>   </div> </div> <div>Mar 21.11.2023 18:59</div> <div> <p><a href="#">[PDF] Market Research on IIoT Standard Compliance Monitoring Providers and deriving Attributes for IIoT Compliance Monitoring</a><br/> D Oberhofer, M Hornsteiner, S Schöning - arXiv preprint arXiv:2311.09991, 2023<br/> Adapting security architectures to common standards like IEC 62443 or ISO 27000 in the Industrial Internet of Things (IIoT) involves complex processes and compliance reports. Automatic monitoring of compliance status would enhance this process. Despite limited research, practical applications exist. This paper conducts a market study on providers implementing IEC 62443 in IIoT, aiming to formulate a catalog of monitorable attributes aligned with the standard. The study reveals challenges, such ...</p> <ul style="list-style-type: none"> <li>Referințe bibliografice: <a href="#">Intrusion detection on ics and scada networks</a> ➔</li> </ul> <div>     </div> </div> <div> <p>Acest mesaj a fost trimis de Google Academic deoarece urmăriți referințele bibliografice noi la <a href="#">profilul dvs.</a></p> <p>ANUL ALERTA</p> <div> <div>Răspuns</div> <div>Redirecționare</div> </div> </div> </div> |
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| 70. | <p><a href="#">The Optimization of the Dynamic Regime of the Asynchronous Vectorial AC Motor in Flying Shear</a><br/> <a href="#">[HTML] mdpi.com</a></p> <p><a href="#">[HTML] Experimental Design and Simulation of a Fly-Cutting Plant for Academic Environment Practices</a></p> <p>1. <a href="#">DF Ramírez-Jiménez</a>, CA Torres Valencia - Machines, 2024 - mdpi.com</p> <p>Test plants or laboratory prototypes are essential for developing training activities in engineering. In the field of automation and control, simulators or high-fidelity equipment ...</p> <p><a href="#">Salvați Citați Articole cu conținut similar Toate cele 2 versiuni</a><br/> [</p>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 71. | <p><a href="#">The Optimization of the Dynamic Regime of the Asynchronous Vectorial AC Motor in Flying Shear</a><br/> <a href="#">[HTML] mdpi.com</a></p> <p><a href="#">PDF] Shearing Work Analysis and Control Design of Rotary Shears in Material Processing Lines</a></p> <p>1. V Šlapák, <a href="#">F Ďurovský</a>, <a href="#">K Kyslan</a>... - Power Electronics and ..., 2024 - sciendo.com</p> <p>Rotary shears are common part of the material processing lines (MPL). During the operation, these shears are loaded with impact cutting torque, which takes only short time but reaches ...</p> <p><a href="#">Salvați Citați Articole cu conținut similar Toate cele 5 versiuni</a></p>                                                                                                                                                                                                                                                                                                                                                                                            |
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| 73. | <p><a href="#">Intrusion detection on ics and scada networks</a><br/> <a href="#">[HTML] sciencedirect.com</a></p> <p><a href="#">[HTML] Security analysis of cyber physical system using digital forensic incident response</a></p> <p>1. <a href="#">P Binnar</a>, <a href="#">S Bhirud</a>, <a href="#">F Kazi</a> - Cyber Security and Applications, 2024 - Elsevier</p> <p>There is a great demand for an efficient security tool which can secure IIoT systems from potential adversarial attacks. However, it is challenging to design a suitable security model ...</p> <p><a href="#">Salvați Citați Citat de 10 ori Articole cu conținut similar</a><br/> <a href="#">[PDF] A Noise-Removal Machine Learning Approach for Enhanced Threats Detection in ICS Networks</a></p> <p>2. UU Izuazu, VU Ihekoronye, <a href="#">DS Kim</a>... - 한국통신학회 학술대회 ..., 2024 - researchgate.net</p> <p>The centralized and vulnerable nature of industrial control system (ICS) networks, attracts malicious actors seeking to exploit vulnerabilities, compromise data and disrupt critical ...</p> |

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|     | <p>A Kubule, J Kramens, M Bimbere, N Pedišius... - Energies, 2024 - mdpi.com</p> <p>Reliable heat and power supply are among the basic household needs nowadays. It is especially topical in rural or distant locations that may be cut off from the energy grid due to ...</p> <p><a href="#">Salvați Citati</a> <a href="#">Citat de 3 ori</a> <a href="#">Articole cu conținut similar</a> <a href="#">Toate cele 4 versiuni</a></p>                                                                                                                                                                                                                                                   |
| 79. | <p><a href="#">MATLAB/simulink-based grid power inverter for renewable energy sources integration</a><br/>[PDF] mdpi.com</p> <p>1. <a href="#">Enhancement of LVRT capability in DFIG-based wind turbines with STATCOM and supercapacitor</a></p> <p><a href="#">MK Döşoğlu</a> - Sustainability, 2023 - mdpi.com</p> <p>Overvoltage and overcurrent resulting from various faults cause instability in Doubly Fed Induction Generator (DFIG)-based wind turbines connected to a grid. The grid code ...</p> <p><a href="#">Salvați Citati</a> <a href="#">Citat de 11 ori</a> <a href="#">Articole cu conținut similar</a> <a href="#">Toate cele 6 versiuni</a></p>                     |
| 80. | <p><a href="#">Optimal control for AC drive with quadratic criteria</a><br/>[HTML] mdpi.com</p> <p>1. [HTML] <a href="#">Optimized Discrete Nonlinear Control of Alternating Current Three-Phase Motors via an Industrial Variable Frequency Drive</a></p> <p>N Cervantes-Escorcia, <a href="#">OJ Santos-Sánchez</a>... - Applied Sciences, 2024 - mdpi.com</p> <p>This article presents a suboptimal nonlinear control strategy to improve the dynamics of a three-phase alternating current (AC) motor. Using dynamic programming, the calculation of ...</p> <p><a href="#">Salvați Citati</a> <a href="#">Articole cu conținut similar</a> <a href="#">Toate cele 2 versiuni</a></p> |
| 81. | <p>Ref to <a href="#">DC microgrid control</a><br/>[PDF] springer.com</p> <p>1. <a href="#">Energy management controllers: strategies, coordination, and applications</a></p> <p><a href="#">MS Bakare</a>, <a href="#">A Abdulkarim</a>, <a href="#">AN Shuaibu</a>... - Energy ..., 2024 - Springer</p> <p>Energy management controllers (EMCs) are pivotal for optimizing energy consumption and ensuring operational efficiency across diverse systems. This review paper delves into the ...</p> <p><a href="#">Salvați Citati</a> <a href="#">Citat de 2 ori</a> <a href="#">Articole cu conținut similar</a> <a href="#">Toate cele 7 versiuni</a></p>                             |
| 82. | <p><a href="#">Advanced state feedback control of grid-power inverter</a><br/><a href="#">DC microgrid control</a></p> <p>1. [PDF] <a href="#">Rozprawa doktorska</a></p> <p>WŁ ELEKTRYCZNY - 2024 - repo.pw.edu.pl</p> <p>The dissertation describes the problem of the control of a three-phase three-wire AC/DC converter operated under distorted grid voltage conditions. One of the main difficulties with ...</p> <p><a href="#">Salvați Citati</a> <a href="#">Articole cu conținut similar</a> <a href="#">Toate cele 10 versiuni</a></p>                                                                                                                                        |
| 83. | <p><a href="#">Sliding mode controller for induction motor</a><br/>[PDF] researchgate.net</p> <p>[PDF] <a href="#">Quasi ZSI-Fed Sliding Mode Control-based Indirect Field-Oriented Control of IM Using PI-Fuzzy Logic Speed Controller.</a></p> <p><a href="#">R Tidke</a>, <a href="#">A Chowdhury</a> - Electrica, 2022 - researchgate.net</p> <p>The demand for very efficient and top-performing power converters and drives is rising,</p>                                                                                                                                                                                                                                          |

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|  | <p>which requires a new controlling strategy for the drive system. The induction motor (IM) and ...<br/> <a href="#">Salvați Citați Citat de 3 ori Articole cu conținut similar Toate cele 3 versiuni</a><br/> Performance analysis of fuzzy logic-sliding mode controlled induction motor drive<br/> <a href="#">R Tidke, A Chowdhury</a> - International Journal of Electric ..., 2023 - inderscienceonline.com<br/> The induction motor (IM) drive requires an effective and efficient control method that is<br/> profitable, simple, and easy to implement for electric vehicle/hybrid electric vehicle (EV/HEV) ...<br/> <a href="#">Salvați Citați Citat de 1 ori Articole cu conținut similar Toate cele 3 versiuni</a><br/> <a href="https://www.inderscienceonline.com/doi/abs/10.1504/IJEHV.2023.136768">https://www.inderscienceonline.com/doi/abs/10.1504/IJEHV.2023.136768</a></p> |
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**Tabel 7.1.1.**

Citări în sistemul ISI ale lucrărilor de cercetare/ brevete

**Citare în articol publicat în anul evaluat indexat în ISI Proceedings sau în revistă BDI**

| Citare în articol publicat în anul evaluat indexat în ISI Proceedings sau în revistă BDI |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| 1.                                                                                       | <p>1. <a href="#">Electrical insulation study using partial discharge model</a><br/> <a href="#">Munteanu Toader, Dumitrescu Mariana</a><br/> Published in: Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean (Volume:3 ), Date of Conference: 29-31 May 2000, Page(s): 1060 - 1063 vol.3, Print ISBN: 0-7803-6290-X, INSPEC Accession Number: 7042241, DOI: 10.1109/MELCON.2000.879717<br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000166106500258">https://www.webofscience.com/wos/woscc/full-record/WOS:000166106500258</a><br/> <a href="https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=10669186685849155238&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024">https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=10669186685849155238&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024</a><br/> Measured and Simulated PD Characteristics of Closely Coupled Air Cavities in Polymeric Insulation<br/> Thekiso, Mathew ; Nyamupangedengu, Cuthbert ; Kyere, Isaac Kwabena<br/> <a href="#">2024 IEEE PES/IAS PowerAfrica, PowerAfrica 2024</a>2024 2024 IEEE PES/IAS PowerAfrica, PowerAfrica 2024Johannesburg7 October 2024through 11 October 2024Code 204565<br/> <a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85213353452&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Measured+and+Simulated+PD+Characteristics+of+Closely+Coupled+Air+Cavities+in+Polymeric+Insulation%29&amp;relpos=0">https://www.scopus.com/record/display.uri?eid=2-s2.0-85213353452&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Measured+and+Simulated+PD+Characteristics+of+Closely+Coupled+Air+Cavities+in+Polymeric+Insulation%29&amp;relpos=0</a><br/> <a href="https://ieeexplore.ieee.org/abstract/document/10759317">https://ieeexplore.ieee.org/abstract/document/10759317</a></p> |

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| 2. | <p>2 Fault Tolerant Control Multiprocessor Systems Modelling Using Advanced Stochastic Petri Nets<br/> M Dumitrescu - Procedia Technology, 2016 – Elsevier , Volume22, Page623-628, DOI10.1016/j.protcy.2016.01.129<br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000383949300086">https://www.webofscience.com/wos/woscc/full-record/WOS:000383949300086</a><br/> <a href="https://scholar.google.ro/scholar?start=20&amp;q=dumitrescu+m+galati&amp;hl=en&amp;as_sdt=0,5">https://scholar.google.ro/scholar?start=20&amp;q=dumitrescu+m+galati&amp;hl=en&amp;as_sdt=0,5</a><br/> <a href="#">On the method of building of non-basic GL-models which are formed on combination of edge functions of basic models</a><br/> Romankevich A. M., Morozova A. V., Zacharioudakis L<br/> <a href="#">National Technical University of Ukraine</a> “Igor Sikorsky Kyiv Polytechnic Institute”<br/> Applied Aspects of Information Technology, 2024;Vol.7, No.2:175–188,<br/> DOI:<a href="https://doi.org/10.15276/aait.07.2024.13">https://doi.org/10.15276/aait.07.2024.13</a><br/> <a href="https://aait.op.edu.ua/index.php/journal/article/view/248/251">https://aait.op.edu.ua/index.php/journal/article/view/248/251</a><br/> <a href="https://scholar.google.com/scholar?oi=bibs&amp;hl=ro&amp;cites=16076026047554862875&amp;as_sdt=5&amp;as_ylo=2024&amp;as_yhi=2024">https://scholar.google.com/scholar?oi=bibs&amp;hl=ro&amp;cites=16076026047554862875&amp;as_sdt=5&amp;as_ylo=2024&amp;as_yhi=2024</a></p>          |
| 3. | <p>3 Fault Tolerant Control Multiprocessor Systems Modelling Using Advanced Stochastic Petri Nets<br/> M Dumitrescu - Procedia Technology, 2016 – Elsevier , Volume22, Page623-628, DOI10.1016/j.protcy.2016.01.129<br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000383949300086">https://www.webofscience.com/wos/woscc/full-record/WOS:000383949300086</a><br/> <a href="https://scholar.google.ro/scholar?start=20&amp;q=dumitrescu+m+galati&amp;hl=en&amp;as_sdt=0,5">https://scholar.google.ro/scholar?start=20&amp;q=dumitrescu+m+galati&amp;hl=en&amp;as_sdt=0,5</a><br/> <a href="#">On the modification of GL-models by adding edges to a cyclic graph</a><br/> Romankevich V. A., Morozov K. V., Romankevich A. M., Morozova A. V., Zacharioudakis L.<br/> <a href="#">National Technical University of Ukraine</a> “Igor Sikorsky Kyiv Polytechnic Institute”<br/> Herald of Advanced Information Technology 2024 Vol. 7 , No. 2, pp 185 – 198<br/> DOI:<a href="https://doi.org/10.15276/hait.07.2024.13">https://doi.org/10.15276/hait.07.2024.13</a>, ISSN 2663-0176(Print)<br/> <a href="https://hait.od.ua/index.php/journal/article/view/217/237">https://hait.od.ua/index.php/journal/article/view/217/237</a><br/> <a href="https://scholar.google.com/scholar?oi=bibs&amp;hl=ro&amp;cites=16076026047554862875&amp;as_sdt=5&amp;as_ylo=2024&amp;as_yhi=2024">https://scholar.google.com/scholar?oi=bibs&amp;hl=ro&amp;cites=16076026047554862875&amp;as_sdt=5&amp;as_ylo=2024&amp;as_yhi=2024</a></p> |

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| 4. | <p>4 Application of Fuzzy Logic in Safety Computing for a Power Protection System<br/> Mariana Dumitrescu, Toader Munteanu,<br/> Fuzzy Systems and Knowledge Discovery , Series Title Lecture Notes in Computer Science Volume 4223, 2006, pp 980-989 , Book Subtitle, Third International Conference, FSKD 2006, Xi'an, China, September 24-28, 2006, Pages pp 980-989, 2006, DOI, 10.1007/11881599_122, Print ISBN 978-3-540-45916-3, Series Volume 4223, Series ISSN 0302-9743, Publisher Springer Berlin Heidelberg<br/> <a href="http://link.springer.com/chapter/10.1007%2F11881599_122">http://link.springer.com/chapter/10.1007%2F11881599_122</a><br/> Nuclear power plant probabilistic safety assessment by fuzzy approach: current states, future research directions and challenges<br/> Purba, Julwan Hendry<sup>a</sup>; Hendayun, Mokhamad<sup>b</sup>; Tjahyani, Damianus Toersiwi Sony<sup>a</sup>; Susila, I. Putu<sup>c</sup>; Wahanani, Nursinta Adi<sup>d</sup>; Waskita, Arya Adhyaksa<sup>e</sup>; Ekariansyah, Andi Sofrany<sup>a</sup><br/> <a href="https://doi.org/10.1504/IJNEST.2023.136782">International Journal of Nuclear Energy Science and Technology</a> Volume 16, Issue 4, Pages 297 – 315, 2023, Published Online: February 21, 2024<br/> <a href="https://doi.org/10.1504/IJNEST.2023.136782">https://doi.org/10.1504/IJNEST.2023.136782</a><br/> <a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85185883950&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Nuclear+power+plant+probabilistic+safety+assessment+by+fuzzy+approach%3A+current+states%2C+future+research+directions+and+challenges%29&amp;relpos=0">https://www.scopus.com/record/display.uri?eid=2-s2.0-85185883950&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Nuclear+power+plant+probabilistic+safety+assessment+by+fuzzy+approach%3A+current+states%2C+future+research+directions+and+challenges%29&amp;relpos=0</a><br/> <a href="https://www.inderscienceonline.com/doi/abs/10.1504/IJNEST.2023.136782">https://www.inderscienceonline.com/doi/abs/10.1504/IJNEST.2023.136782</a></p> |
| 5. | <p>5. <a href="#">Electrical insulation study using partial discharge model</a><br/> Munteanu Toader, Dumitrescu Mariana<br/> Published in: Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean (Volume:3 ), Date of Conference: 29-31 May 2000, Page(s): 1060 - 1063 vol.3, Print ISBN: 0-7803-6290-X, INSPEC Accession Number: 7042241, DOI: 10.1109/MELCON.2000.879717<br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000166106500258">https://www.webofscience.com/wos/woscc/full-record/WOS:000166106500258</a><br/> <a href="https://ieeexplore.ieee.org/abstract/document/879717">https://ieeexplore.ieee.org/abstract/document/879717</a><br/> <a href="https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=10669186685849155238&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024">https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=10669186685849155238&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024</a><br/> Partial Discharge Detection and Localization of Medium-voltage Overhead Distribution Networks<br/> By Yuan Yan<br/> Politecnico di Torino Politecnico di Torino 2024<br/> <a href="https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=10669186685849155238&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024">https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=10669186685849155238&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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| 6. | <p>6 Natural doubling of the apparent switching frequency using three-level ANPC converter<br/> D Floricau, E Floricau, M Dumitrescu - 2008 International School on Nonsinusoidal Currents ..., 2008<br/> <a href="https://ieeexplore.ieee.org/abstract/document/4627496">https://ieeexplore.ieee.org/abstract/document/4627496</a><br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016">https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016</a><br/> <a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC</a><br/> <a href="https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=15022103813338540480&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024">https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=15022103813338540480&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024</a><br/> Loss Equalization Strategy of 3L Active Neutral Point Clamped Inverter based on Optimization Algorithm<br/> Chen, Jianxiang; Pei, Yunqing; Wang, Laili; Zhao, Yuanyuan; Chen, Siying<br/> 2024 IEEE 10th International Power Electronics and Motion Control Conference, IPEMC 2024 ECCE Asia, Pages 3620 – 3625, 2024 10th IEEE International Power Electronics and Motion Control Conference, IPEMC 2024 , 17 May 2024, Code 200752<br/> <a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85199066704&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Loss+Equalization+Strategy+of+3L+Active+Neutral+Point+Clamped+Inverter+based+on+Optimization+Algorithm%29&amp;sessionSearchId=6bc6f463fbf3e268d455def565edf5a3&amp;relpos=0">https://www.scopus.com/record/display.uri?eid=2-s2.0-85199066704&amp;origin=resultslist&amp;sort=plf-f&amp;src=s&amp;sot=b&amp;sdt=b&amp;s=TITLE-ABS-KEY%28Loss+Equalization+Strategy+of+3L+Active+Neutral+Point+Clamped+Inverter+based+on+Optimization+Algorithm%29&amp;sessionSearchId=6bc6f463fbf3e268d455def565edf5a3&amp;relpos=0</a><br/> <a href="https://ieeexplore.ieee.org/abstract/document/10567305">https://ieeexplore.ieee.org/abstract/document/10567305</a></p> |
| 7. | <p>7 Natural doubling of the apparent switching frequency using three-level ANPC converter<br/> D Floricau, E Floricau, M Dumitrescu - 2008 International School on Nonsinusoidal Currents ..., 2008<br/> <a href="https://ieeexplore.ieee.org/abstract/document/4627496">https://ieeexplore.ieee.org/abstract/document/4627496</a><br/> <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016">https://www.webofscience.com/wos/woscc/full-record/WOS:000261799200016</a><br/> <a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ro&amp;user=4IPPXWcAAAAJ&amp;citation_for_view=4IPPXWcAAAAJ:u-x6o8ySG0sC</a><br/> <a href="https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=15022103813338540480&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024">https://scholar.google.com/scholar?hl=ro&amp;as_sdt=2005&amp;sciodt=0%2C5&amp;cites=15022103813338540480&amp;scipsc=&amp;as_ylo=2024&amp;as_yhi=2024</a><br/> 20MW Wind Turbine System based on 5-level ANPC Inverter utilizing 10kV IGCT<br/> • Tae-Yun Kim , Yong-Sug Suh , Jae-Hoon Choi , Hee-Won Choi , Hyeon-Cheol Park<br/> THE TRANSACTIONS OF KOREAN INSTITUTE OF POWER ELECTRONICS Academic journal, THE KOREAN INSTITUTE OF POWER ELECTRONICS, Vol.29 No.3, 2024.06 208 - 215 (8page), DOI : 10.6113/TKPE.2024.29.3.208<br/> <a href="https://www.dbpia.co.kr/Journal/articleDetail?nodeId=NODE11803089">https://www.dbpia.co.kr/Journal/articleDetail?nodeId=NODE11803089</a><br/> <a href="https://www.scopus.com/results/citedbyresults.uri?sort=plf-f&amp;cite=2-s2.0-55149086849&amp;src=s&amp;imp=t&amp;sid=cf82221321c53779452847fae32239cd&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;origin=resultslist&amp;editSaveSearch=&amp;txGid=df70d4282c183792684d60bd253db534">https://www.scopus.com/results/citedbyresults.uri?sort=plf-f&amp;cite=2-s2.0-55149086849&amp;src=s&amp;imp=t&amp;sid=cf82221321c53779452847fae32239cd&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;origin=resultslist&amp;editSaveSearch=&amp;txGid=df70d4282c183792684d60bd253db534</a></p>                                                                                                                                                                 |

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| 35. | <p>1. 1. H. Hesham, M. A. Rahman, G. Bassioni, R. A. Swief, S. Helmy and M. Ezzat, "Simulation of Solid-Oxide Fuel Cell Connected to Three-Phase Electrical Power System," 2024 25th International Middle East Power System Conference (MEPCON), Cairo, Egypt, 2024, pp. 1-6, doi: 10.1109/MEPCON63025.2024.10850016.<br/> <a href="https://ieeexplore.ieee.org/abstract/document/10850016/references#references">https://ieeexplore.ieee.org/abstract/document/10850016/references#references</a></p> <p>ref to</p> <p>17.<br/> M. Gaiceanu and G. Orsello, "Steady State Model of 100kW<sub>e</sub> SOFC Power Conditioning System", <i>9th International Electrical Power Quality and Utilisation Conference</i>, 2007.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| 36. | <p><b><u>Basic Electromagnetic Compatibility Equation for Radio Communication Systems on Board Military Ships</u></b></p> <p><b>2. <u>Research on EMC Evaluation and Management Method Based on Time-Frequency Domain and Complex Network Modeling Analysis</u></b></p> <p>W Cai, R Liu, K Chen, K Li, X Su... - 2024 IEEE 12th ..., 2024 - <a href="https://ieeexplore.ieee.org">ieeexplore.ieee.org</a></p> <p>This paper proposes an electromagnetic compatibility (EMC) evaluation and management method based on time-frequency domain analysis and complex networks, which can be ...</p> <p><a href="#">Salvați Citati Articole cu conținut similar</a></p> <p>W. Cai, R. Liu, K. Chen, K. Li, X. Su and Y. Zhu, "Research on EMC Evaluation and Management Method Based on Time-Frequency Domain and Complex Network Modeling Analysis," 2024 IEEE 12th International Conference on Computer Science and Network Technology (ICCSNT), Dalian, China, 2024, pp. 186-189, doi: 10.1109/ICCSNT62291.2024.10776627. keywords: {Wireless communication;Time-frequency analysis;Analytical models;Complex networks;Electromagnetic compatibility;Broadband antennas;Electromagnetics;Loaded antennas;Antenna accessories;Antenna arrays;electromagnetic compatibility (EMC);time-frequency analysis;complex network;electromagnetic environment (EME)}, URL: <a href="https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=10776627&amp;isnumber=10776603">https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=10776627&amp;isnumber=10776603</a></p> <p>Ref to V. Solcanu, M. Gaiceanu, M. Constantinescu, A. Bordianu, G. Samoilescu and A. Sotir, "Basic Electromagnetic Compatibility Equation for Radio Communication Systems on Board Military Ships", 2020 <i>International Symposium on Fundamentals of Electrical Engineering (ISFEE)</i>, pp. 1-6, 2020. <a href="https://link.springer.com/article/10.1186/s42162-024-00357-9#citeas">https://link.springer.com/article/10.1186/s42162-024-00357-9#citeas</a></p> |
| 37. | <p><b>3. A. J. Taveras-Cruz <i>et al.</i>, "Differential adaptive protection proposal to interconnect isolated microgrid to the primary electric grid: A case study in the Pedernales province," 2024 12th International Conference on Smart Grid (icSmartGrid), Setubal, Portugal, 2024, pp. 78-83, doi: 10.1109/icSmartGrid61824.2024.10578079.</b></p> <p><a href="https://ieeexplore.ieee.org/abstract/document/10578079">https://ieeexplore.ieee.org/abstract/document/10578079</a></p> <p>ref to M. Gaiceanu and I. N. Arama, "Adaptive Protection Systems", pp. 679-695, 2020.</p> <p><a href="#">CrossRef Google Scholar</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 38. | <p><b><u>Modeling of Dispersion Magnetic Fields Developed by the Main Electromagnetic Systems Used...</u></b></p> <p><a href="#">[PDF] sciendo.com</a></p> <p><b><u>[PDF] Numerical Analysis of Inductive Proximity Sensors for Non-Ferrous Targets</u></b></p> <p><a href="#">MC Petrescu, L Petrescu</a> - The Scientific Bulletin of Electrical Engineering ... - sciendo.com</p> <p><b>4. Proximity sensors are devices found in many fields of activity from the automotive area to robotics and beyond. Among them, proximity sensors occupy an important place due to their ...</b></p> <p><a href="#">Salvați Citati Citat de 2 ori Articole cu conținut similar</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 39. | <p><b><u>[PDF] PROJECT MANAGEMENT OF ELECTRICAL INSTALLATION POWERED BY PHOTOVOLTAIC PANELS</u></b></p> <p>V SPOIALĂ</p> <p><b>5. <a href="https://intapi.sciendo.com/pdf/10.2478/sbeef-2024-0015">https://intapi.sciendo.com/pdf/10.2478/sbeef-2024-0015</a></b></p> <p>Scientific Bulletin of the Electrical Engineering Faculty – Year 24 No.2 (51) ISSN 2286-2455</p> <p>Ref to In Situ Tests of the Monitoring and Diagnostic System for Individual Photovoltaic Panels, Energy, 2021, Volume 14</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| 40. | <p>Ref to <a href="#">Power electronic converters in AC microgrid</a><br/> <a href="#">[PDF] ieee.org</a><br/> <b><a href="#">Comparative Analysis of Interconnecting Converters for Clustered DC Microgrids</a></b><br/> <a href="#">M Khushoo</a>, A Sharma, G Kaur - 2024 4th International ..., 2024 - <a href="#">ieeexplore.ieee.org</a></p> <p>6. As power systems evolve towards a more decentralized and interconnected structure, their topological structure is changing. Developing an electric grid which is sustainable and ...<br/> <a href="#">Salvati Citati Articole cu continut similar</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 41. | <p>Ref to <a href="#">Adaptive Protection Systems</a><br/> 7. <b><a href="#">Differential adaptive protection proposal to interconnect isolated microgrid to the primary electric grid: A case study in the Pedernales province</a></b><br/> <a href="#">AJ Taveras-Cruz</a>, JA Espinal... - ... on Smart Grid ..., 2024 - <a href="#">ieeexplore.ieee.org</a><br/> Differential adaptive protections considerably improve the resiliency of the electrical microgrid power system, mitigating electrical failures and increasing its flexibility, ensuring ...<br/> <a href="#">Salvati Citati Articole cu continut similar Toate cele 3 versiuni</a></p>                                                                                                                                                                                                                                                                                                                                                                                                            |
| 42. | <p><b><a href="#">Cyber-physical systems for industrial applications</a></b><br/> <a href="#">[PDF] ieee.org</a><br/> <b><a href="#">A Novel Approach for Enhancing Cyber Resiliency in Distance Relay using PCA and Random Forest</a></b><br/> 8. <a href="#">AM Tripathi</a>, R Yadav... - 2024 15th International ..., 2024 - <a href="#">ieeexplore.ieee.org</a><br/> Modern power system networks integrate communication systems to ensure efficient and reliable function of the power grids. The distance relay is an essential component of the ...</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 43. | <p>Ref to <a href="#">Electric Power Conversion</a><br/> 9. <b><a href="#">Optimizing Control Strategies for High-Power Capacitor Chargers with a SiC-based LC-resonant Topology</a></b><br/> F Haag, M Berard, F Albrecht... - 2024 10th Euro ..., 2024 - <a href="#">ieeexplore.ieee.org</a><br/> Optimizing Control Strategies for High-Power Capacitor Chargers with a SiC-based LC-resonant Topology Page 1 Optimizing Control Strategies for High-Power Capacitor Chargers with a ...<br/> <a href="#">Salvati</a><br/> <a href="#">Citati Articole cu continut similar</a><br/> <a href="#">[PDF] nbuv.gov.ua</a><br/> 10. <b><a href="#">ДИНАМІЧНА МОДЕЛЬ РЕЗОНАНСНОГО ПЕРЕТВОРЮВАЧА ДЛЯ ВПЛИВУ ЗІ СТОРОНИ ЖИВЛЕННЯ.</a></b><br/> ГВ Павлов, <a href="#">АВ Обрубов</a>... - Technical ..., 2024 - <a href="#">search.ebscohost.com</a><br/> В роботі отримано дискретну динамічну модель двотактного резонансного перетворювача з симетричним режимом роботи, яка описує резонансний ...<br/> <a href="#">Salvati Citati Articole cu continut similar</a></p> |

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| 44. | <p><a href="#">Microgrid Power Infrastructure for Critical Operations</a><br/>[PDF] <a href="#">mdpi.com</a></p> <p>11. <a href="#">Supply Chain Resilience Strategy for Healthcare Organizations: Crucial Steps in Addressing the Impact of Natural Disasters</a><br/>AS Kafoe - Leadership Action and Intervention in Health, Business ..., 2024 - <a href="#">igi-global.com</a><br/>Recent natural disasters, including the COVID-19 pandemic, earthquakes, tsunamis, and hurricanes, have exposed the vulnerabilities inherent in global supply chains, resulting in ...<br/><a href="#">Salvați Citati</a> <a href="#">Citat de 1 ori</a> <a href="#">Articole cu conținut similar</a></p>                                      |
| 45. | <p><a href="#">Advanced Control of the Permanent Magnet Synchronous Motor</a><br/>[PDF] <a href="#">researchgate.net</a></p> <p>12. <a href="#">Design and experimental characterisation of a novel quasi-direct drive actuator for highly dynamic robotic applications</a><br/>CA Pérez-Díaz, I Muñoz... - ... on Robotics and ..., 2024 - <a href="#">ieeexplore.ieee.org</a><br/>This paper presents the design and experimental results of a proprioceptive, high-bandwidth quasi-direct drive (QDD) actuator for highly dynamic robotic applications. A comprehensive ...<br/><a href="#">Salvați Citati</a> <a href="#">Citat de 2 ori</a> <a href="#">Articole cu conținut similar</a></p>                                     |
| 46. | <p><a href="#">Regenerative DC drive system</a><br/>[PDF] <a href="#">ieee.org</a></p> <p>13. <a href="#">An Overview of Advancements in Multimotor Drives: Structural Diversity, Advanced Control, Specific Technical Challenges, and Solutions</a><br/>C Gong, YR Li, <a href="#">NR Zargari</a> - Proceedings of the IEEE, 2024 - <a href="#">ieeexplore.ieee.org</a><br/>Multimotor drives have become increasingly important in modern industrial applications due to their ability to provide superior performance, efficiency, and flexibility compared to single ...<br/><a href="#">Salvați Citati</a> <a href="#">Citat de 6 ori</a> <a href="#">Articole cu conținut similar</a> <a href="#">Toate cele 2 versiuni</a></p> |
| 47. | <p><a href="#">Mathematical modelling of color mixing process and plc control implementation by using human...</a></p> <p>14. <a href="#">Simulation and Digital Twin: Modern Technology and Approach</a><br/>RV Salunke, <a href="#">AA Shinde</a>, <a href="#">MS Patil</a> - 2023 7th International ..., 2023 - <a href="#">ieeexplore.ieee.org</a><br/>Visualize your digital twin residing in a virtual environment where you could test every choice, prepare for any surprise, and create your best and most prosperous existence in life ...<br/><a href="#">Salvați Citati</a> <a href="#">Citat de 1 ori</a> <a href="#">Articole cu conținut similar</a></p>                                                               |

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| 48. | <p>1 referință bibliografică nouă la articolele dvs. Aler. Google Academic &lt;scholaralerts-noreply@google.com&gt;<br/> Sâm 20.07.2024 06:06 Către:marian.gaiceanu@ieee.org &lt;marian.gaiceanu@ieee.org&gt;</p> <p>15. Research on Active Support Control Strategy of Double-Fed Wind Generator Unit for System Inertia Requirement Y Zhi, C He, X Song, J Hu, H Zhang, C Liu - 2024 IEEE 7th International Electrical ..., 2024</p> <p>1 referință bibliografică nouă la articolele dvs.<br/> Aler. Google Academic &lt;scholaralerts-noreply@google.com&gt;<br/> Sâm 20.07.2024 06:06<br/> Către:marian.gaiceanu@ieee.org &lt;marian.gaiceanu@ieee.org&gt;</p> <p>Research on Active Support Control Strategy of Double-Fed Wind Generator Unit for System Inertia Requirement<br/> Y Zhi, C He, X Song, J Hu, H Zhang, C Liu - 2024 IEEE 7th International Electrical ..., 2024<br/> The frequency response of the double high-power system with high proportion of new energy and high proportion of power electronic equipment decreases, and the system inertia decreases, which leads to the deterioration of frequency regulation performance. In this paper, aiming at the problem that the overall inertia level of the system is low and the frequency is high when small disturbances occur after the doubly-fed wind turbine is connected to the grid, firstly, a grid-structured active ...</p> <p>• Referințe bibliografice: Improvement of voltage profile of the hybrid power system ...</p> <p>☆   </p> <p>Accept mesaj a fost trimis de Google Academic deoarece urmăriți referințele bibliografice noi la <a href="#">profilul</a> dvs.</p> <p>ANUL ALERTA</p> <p>• Referințe bibliografice: Improvement of voltage profile of the hybrid power system ...</p> |
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**Tabel 7.1.7.**

**Brevete de invenție (solicitate / acordate)**

| Nr.crt. | Nr.cerere de brevet/ H.G. Brevet acordat | Titlu brevet                                                                                                                                                                                             | Autori                                                                                   |
|---------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1       | A/00512/2022                             | Unificarea Implementării Și Testării Algoritmilor De Control A Filtrelor Active De Putere Trifazate, De Joasă Tensiune, De Tip Paralel, În Stand Experimental Și În Prototipuri, Filtre Active De Putere | GĂICEANU MARIAN;<br>EPURE SILVIU IONUȚ;<br>ȘOLEA RĂZVAN<br>CONSTANTIN;<br>BUHOSU RĂZVAN. |

**Tabel 7.1.9****Produse/servicii/tehnologii rezultate din activități de cercetare, bazate pe brevete, omologări sau inovații propria**

| Nr. crt. | Denumire produs/ serviciu/ tehnologie                                 |
|----------|-----------------------------------------------------------------------|
| 1        | Șapte prototipuri industriale filtre active de putere (7 industriale) |
| 2        | Prototip de laborator – testarea filtrelor active de putere           |
| 3        | Emulator hardware și software de calitate a energiei electrice        |

**Tabel 7.1.10.****Studii prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice, noi sau perfecționate, comandate sau utilizate de beneficiar**

| Nr. crt. | Denumire studiu, normativ, procedura, metodologie etc.                                                                         |
|----------|--------------------------------------------------------------------------------------------------------------------------------|
| 1.       | -Studii privind alegerea și implementarea sistemelor de acționare electrică cu performanțe energetice ridicate                 |
| 2.       | -Studii privind alegerea și dimensionarea sistemelor regenerative de acționare electrică                                       |
| 3.       | Proiectarea, instalarea și punerea în funcțiune a sistemelor cu logică programabilă (PLC) pentru comanda acțiunilor electrice. |
| 4.       | -Acționări electrice și convertoare statice inteligente                                                                        |
| 5.       | -Studii privind modernizarea instalațiilor industriale în vederea reducerii consumului de energie electrică.                   |
| 6.       | -Studii privind optimizarea consumului de energie în companii/întreprinderi.                                                   |

|     |                                                                                                                                                                                                                         |
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| 7.  | Proiectarea și realizarea sistemelor de acționare electrică optimale.                                                                                                                                                   |
| 8.  | -Studii privind calitatea energiei electrice în rețelele electrice de joasa tensiune, rezolvarea problemelor legate de calitatea energiei electrice                                                                     |
| 9.  | -Proiectarea și realizarea prototipurilor filtrelor active de putere de tip paralel pentru creșterea calității energiei electrice și compensarea puterii reactive                                                       |
| 10. | -Proiectarea și realizarea convertoarelor statice de putere pentru creșterea calității energiei electrice.                                                                                                              |
| 11. | -Studii privind sursele de energie electrică pe bază de energii regenerabile. Integrarea și funcționarea surselor de energie electrică pe baza de energii regenerabile în echipamente industriale, în rețele electrice. |
| 12. | -Proiectarea și realizarea convertoarelor statice de putere pentru integrarea și funcționarea surselor de energie electrică pe baza de energii regenerabile în rețele electrice.                                        |
| 13. | -Defectoscopia și mentenanța predictivă și preventivă a mașinilor electrice de curent alternativ.                                                                                                                       |
| 14. | -Sisteme integrate de conversie a energiei și conducere avansată a proceselor complexe.                                                                                                                                 |

#### 10. ACTIVITĂȚI PE BAZĂ DE CONTRACTE (altele decât cele de cercetare)

Contract de finanțare din sursa Fondul Social European (FSE) – POSCCE, POCU, TIC, POR (coordonator) – punctaj pentru dotări

- PNRR, cod: e-PNRR 2033414941, Digitalizarea pentru viitorul educației și cercetării în Universitatea „Dunărea de Jos” din Galați**

Alte tipuri de contracte cu firme, instituții, organizații din România - punctaj de câștigare

|    |                                                                                                                                                                                                                                                                                                                    |
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| 2. | <b>5196/23.10.2024 Contract anual de cooperare</b><br>Program pregatire profesionala studenti ATCR Association - Students -Practical Training Center                                                                                                                                                               |
| 3. | <b>Grant intern de cercetare - RF 2642/31.05.2024, având titlul “Evaluarea performanțelor unei noi strategii de conducere a proceselor de conversie a energiei electromagnetice bazate pe tehnici RBF-NN, prin comparație cu metodele consacrate de tip MPC, cu referire la motoarele PMSM” – membru în echipă</b> |

## Propuneri de proiecte

1. Project Title: Control the Magnetic Confinement of Fusion Plasma in a Toroidal Reactor with Alternating Current Drive (ALCUTOR).
2. Topic: ERC Synergy Grant (ERC-2025-SyG) **Horizon Europe (HORIZON)**

### 10.3. Premii obținute prin proces de selecție/distincții

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                                                                                | <p><b>Conf.dr.ing. Ion Vonvila, Coordonare echipa U3A la a șaptea ediție a concursului “Brad Engineering 2024”, echipă ce a luat un premiu special al juriului</b></p>                                                                                                                                                                                                                                                                                                                       |
| 2.                                                                                | <p><b>Premiul I- Marius Solomon,*<br/>Marian Găiceanua, Vasile<br/>Solcanu CSSD-UDJG 2024 -</b></p> <p>The XIIth edition of the Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galati, Secțiunea nr. 5 Advanced research in Electrical / Electronic Engineering, Systems Engineering and Information Technologies, Optimizing the Operation of a Three-Phase Asynchronous Motor Considering the Thermal Regime and Technological Requirements</p> |
|  | <p>3. <b>Premiul II- Marin George- Andrei, Marian Gaiceanu, CSSD-UDJG 2024 - The XIIth edition of the Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galati, Secțiunea nr. 5 Advanced research in Electrical / Electronic Engineering, Systems Engineering and Information Technologies, Optimizing Energy Consumption for Sinter Cooling Fans Motors Within the Control Loop</b></p>                                                             |



ENEFM 2024, 10th International Congress on Energy, Efficiency and Energy Related Materials  
Chairperson: Marian Gaiceanu

