RAPORT ACTIVITATE [1]

pe anul 2023

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

1.1. Denumirea UC[2]: Sisteme integrate de conversie a energiei și conducere avansată a proceselor complexe - **SICECAPC**

1.2. Document de înființare și anul de înființare[3]: 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://eeris.eu/ERIF-2000-000U-3131

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

2. Scurtă prezentare

2.1. Domeniul fundamental/ramura de știință[4]: Ştiinţe inginereşti / Inginerie electrică, electronică şi telecomunicaţii

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 principale de cercetare, dezvoltare si 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

[1] La Raportare se va avea in vedere doar activitatea desfășurată de membrii titulari (Mt) ai UC

[2] Inclusiv acronim.

[3] Se specifică numărul Hotărârii de Senat și data aprobării

[4] In acord cu HOTĂRÂREA Nr. 433/2022 privind aprobarea Nomenclatorului domeniilor şi al specializărilor/programelor de studii universitare şi a structurii instituţiilor de învăţământ superior pentru anul universitar 2022-2023

- Siguranța muncii în minele subterane
- 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 / microproductie

- Servicii de consultanță, expertize și transfer tehnologic pentru mediul socio-economic (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 acționărilor 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 joasa 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 26, din care:

a. Număr membri titulari[5]: 25
b. Număr membri asociați: 1
c. Conducători de doctorat[6]: 2 (Anexa 2.1)
d. Număr de tineri cercetatori (postoctoranzi, doctoranzi, masteranzi etc): 7

a) Contribuții privind acționarea și conducerea vehiculelor autonome omnidirecționale 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, nume conducator de doctorat Prof.dr.habil.ing. Marian Găiceanu

d) Contributii privind monitorizarea si controlul calitatii energiei electrice princonvertoare 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) Contribuţii privind sistemele de monitorizare şi control în acţionări electrice, Asist.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[7]: 7 Anexa 5.2

5.2. Echipamente, instalații și software de interes național pentru cercetare fundamentală, dezvoltare tehnologică și inovare[8]: 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

[5] Numai pe baza adeziunii aprobate de Responsabilul UC
[6] Nume, prenume, domeniul de doctorat.
[7] Se vor nominaliza laboratoarele, responsabilul si principale direcțiile de cercetare.
[8] 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.

7. Siguranța muncii în minele subterane

6. Contracte de cercetare derulate[9]

6.1. Contracte câștigate în competiții:
- internaționale: 2
- naționale: 2

6.2. Contracte cu agenți economici:
- din străinătate:
- din țară: 1

7. Finanțarea UC din fonduri proprii UDJG[10]

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

8.1.Rezultate ale activității CDI (cercetare fundamentala și aplicativă)[11]

		Nr.
8.1.1	Lucrări publicate în reviste cotate ISI	3
8.1.2	Factor de impact cumulat al lucrărilor cotate ISI	6,09
8.1.3	Citări în reviste de specialitate cotate ISI	76
8.1.4	Lucrări ştiinţifice/tehnice in reviste indexate în baze de date internaționale	22
8.1.5	Comunicări ştiinţifice prezentate la conferinţe internaţionale şi publicate în volumele acestora	31
8.1.6	Comunicări ştiinţifice prezentate la conferinţe naţionale şi publicate în volumele acestora	-
8.1.7	Brevete de invenţie (solicitate / acordate)	2
8.1.8	Citări în sistemul ISI ale lucrărilor de cercetare/ brevete	72
8.1.9	Produse/servicii/tehnologii rezultate din activităţi de cercetare, bazate pe brevete, omologări sau inovații proprii.	9
8.1.10	Studii prospective şi tehnologice, normative, proceduri, metodologii şi planuri tehnice, noi sau perfecţionate, comandate sau utilizate de beneficiar.	14

8.2. Teze de doctorat finalizate și în derulare[12] 1+6

[9] Se vor atasa liste pe categorii care să cuprindă următoarele detalii: nr. contract, titlu, domeniul (care se inscrie in lista domeniilor de cercetare declarate ale UC) de cercetare, director, parteneri (daca este cazul), valoare totala si valoarea regie și valoarea din regie care a fost solicitata pentru intretinerea UC.

[10] Se va specifica valoarea finanțarilor și destinația acestora.

[11] Se vor anexa lista acestor contribuții.

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

8.3. Oportunități de valorificare a rezultatelor CDI

Perioada de durabilitate 2022-2027 Titlul proiectului: "Transfer de cunoștințe privind creșterea eficienței energetice și sisteme inteligente de putere (CRESC_INTEL)", 2016-2022

- Perioada de durabilitate 2023-2028 Titlul proiectului: "Transfer de cunoștințe privind creșterea eficienței energetice și sisteme inteligente de putere (CRESC_INTEL)", 2016-2022

- existența a 15 oferte de consultanță, expertize, servicii în Catalogul UDJG (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- funționalitatea prototipurilor

9. Măsuri privind creșterea capacității activității CDI

- Organizare simpozion internațional ISEEE2023
- organizare SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS Programmes SCDS – UDJG 2023, 11th Edition of SCDS-UDJG
- Depunere propuneri de proiecte
- Contracte de sponsorizare- DMT, Eekels, Liberty, Alewijnse.

10. Măsuri pentru creșterea prestigiului și a vizibilității UC[13]

10.1. Dezvoltarea de parteneriate:

- dezvoltarea de parteneriate la nivel național și internațional (cu personalități/ instituții / asociații profesionale) în vederea participării la programele naţionale şi internaţionale 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 expozitii internaționale;
- târguri și expoziții naționale.

[13] Se va descrie detaliat fiecare acțiune realizată.

- 15 noiembrie 2023, Universitatea „Dunărea de Jos” din Galați a organizat, **la sediul** din strada Domnească nr. 47, cel de-al doilea **Târg de Transfer Tehnologic UDJG 2023.**
- Evenimentul s-a desfășurat de la 10.00 la 16.00, a fost un prilej de realizare a tranferului 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.
- Târgul de Transfer Tehnologic UDJG 2023 s-a derulat în acord cu obiectivele de realizare a proiectului de dezvoltare instituțională *Susținerea cercetării de excelență în activitatea CDI din Universitatea „Dunărea de Jos” din Galați - CEREX UDJG 202*3, contract CNFIS-FDI-2022-0205.

10.3. Premii obținute prin proces de selecție/distincții, etc. 2+2=4 premii+1 mentiune + 2023 Medalia de Aur UGAL INVENT

10.4. Prezentarea activitătii de mediatizare:

- extrase din presa (interviuri); 3 interviuri TV

11.Concluzii

 Cercetarea științifică este o componentă fundamentală a activității Departamentului de Automatică și Inginerie Electrică. Un criteriu fundamental de evaluare a calificării și performanțelor academice este cercetarea științifică. Cercetarea științifică a centrului SICECAPC a avut o evoluție accelerată în anul 2016, este orientată spre domenii de cercetare compatibile cu cerințele Uniunii Europene, precum și cu cele naționale. Activitatea susținută a colectivului de cercetare a permis dezvoltarea laboratoare de cercetare dotate cu echipamente de calitate, care corespund standardelor de calitate naționale și internaționale.

 Centrul de cercetare SICECAPC beneficiază de resurse umane de înaltă specializare, iar dezvoltarea activităților de cercetare reprezintă o consecință firească, cu urmări pozitive și asupra calității activităților didactice. Valorificarea activității de cercetare științifică se concretizează prin lucrari stiintifice/ tehnice publicate in reviste de specialitate cotate ISI, numarul mare de lucrari stiintifice/ tehnice publicate în volumele conferințelor cotate ISI, participari la conferinte interne si internationale.

 Atragerea finanțării prin cercetare - ca masură a gradului de conformitate cu necesitatile reale de cunoastere si a calitatii cercetarii - reprezintă un punct central al activitatii cadrelor universitare.

În anul universitar 2022-2023, s-a reușit organizarea, în domeniul Ingineriei Electrice - dintre programele de studii tradiționale - atât a programelor licență “Electromecanică

(EM), Electronica de putere si actionari electrice (EPAE)", cât și a programului de masterat „Utilizarea Eficientă a Energiei și Surse Regenerabile (UEESR)". Totodată, a continuat și organizarea programului de studii de licență, demarat în anul universitar 2017-2018 - de asemenea, în domeniul Ingineriei Electrice – respectiv, programul Inginerie Electrică și Calculatoare (IEC). Ca atare, a fost, necesară o mobilizare exemplară a cadrelor didactice din cadrul Centrului SICECAPC pentru menținerea nivelului calitativ atât în procesul educațional dar și în procesul de cercetare.

 Evoluția volumului și nivelului activității de cercetare a centrului SICECAPC se reflectă și în numărul mare de proiecte pentru care s-a obținut, prin competiție națională și internațională, finanțarea în cadrul Planului Național de Cercetare-Dezvoltare si Inovare II, Programul PN II Resurse Umane/Proiecte de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente, PN II PARTENERIATE - Proiecte Colaborative de Cercetare Aplicativă, PN II IDEI-Proiecte de cercetare exploratorie, Programul 4, 2. Grant Agreement nr. 899469/2020 – Titlul proiectului: „Innovative high efficiency power system for machines and devices, increasing the level of work safety in underground mining excavations (HEET II)", finanțat prin programul Research Fund for Coal and Steel RFCS, 2020-2023; Responsabil partener – Prof.dr.habil.ing. Marian Găiceanu;

Centrul SICECAPC trebuie racordat la prioritățile, obiectivele și activitățile specifice *Strategiei Naționale* de *Cercetare*, *Inovare și* Specializare. Inteligentă (SNCISI) 2022-2027, respectiv, Strategiei Europa 2030 și a Programului cadru pentru cercetare și inovare Horizon Europe 2021-2027.

 Cercetare fundamentală și de frontieră/Proiecte de Cercetare Exploratorie, Programul 2: Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare/Subprogramul 2.1. Competitivitate prin cercetare, dezvoltare și inovare. Astfel, in centrul SICECAPC se deruleaza in prezent sau s-au finalizat un numar de proiecte de cercetare aplicativa tip PARTENERIATE, de cercetare exploratorie tip IDEI, de infrastructura tip CAPACITATI, de INOVARE, proiecte tip RESURSE UMANE pentru dezvoltarea personalului științific, sau contracte de cercetare-dezvoltate încheiate cu mediul economic.

 Parteneriatele de cercetare instituționale și inter-institutionale existente și în curs de formare, acordurile bilaterale de cooperare în activitatea stiintifică încheiate cu parteneri internaționali au creat oportunitatea participării cercetătorilor din centrul SICECAPC în cadrul unui număr important de consorții, pentru participarea în proiecte de interes național și european.

 SICECAPC a participat cu propuneri de proiecte și la competiții derulate în cadrul programelor finanțate din fonduri structurale, în prezent derulându-se proiecte finantațe prin diverse instrumente structurale cum sunt: Fondul Social European, Fondul European de Dezvoltare Regională și Fondul de Coeziune. S-au depus noi propuneri în cadrul competițiilor europene ce finanțează proiecte europene care susțin mobilitatea studenților și cadrelor didactice ERASMUS+

La loc de cinste trebuie menționată organizarea și participarea cu lucrări de ținută a multora din membrii centrului SICECAPC, în septembrie 2021, tot la Galați, a primului Simpozion Național "Eficiența Energetică și Calitatea Energiei Electrice".

De asemenea, tot în anul 2023, s-a desfășurat, la Galați 8th International Symposium on Electrical and Electronics Engineering (ISEEE 2023), manifestare internațională de

renume, la care membrii centrului SICECAPC au avut o contribuție majoră, atât pentru organizarea simpozionului, cât și prin susținerea unor lucrări deosebite.

Data: 01.04.2024

Responsabil/ Director UC

Prof. dr. habil. ing. Marian Găiceanu

ANEXE

5.1 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

5.2 Laboratoare/ compartimente ale UC

Nr.crt.	Denumire Laborator/ Compartiment UC	Responsabil Laborator/ Compartiment	Direcții de cercetare
1.	Sisteme de microtrigenerare	Prof.Badea Nicolae, Ș.l.dr.ing. Ion Paraschiv	Sisteme de microtrigenerare
2.	Sisteme eoliene și fotovoltaice / sisteme de microcogenerare	Prof.dr.ing. Nicolae Badea, 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	Siguranța muncii în minele subterane	Prof.dr.habil. ing. Marian Găiceanu	Sisteme de distributie si transmisie a energiei electrice
6.	Conducerea automată a sistemelor de conversie a energiei eoliene/optimizarea conversiei electromecanice la receptoarele clasice	Conf.dr.ing. Ciprian Vlad, Ș.l.dr.ing. Romeo Păduraru, Ș.l.dr. Traian Munteanu	Conducerea automată a sistemelor de conversie a energiei eoliene/optimizarea

			conversiei electromecanice la receptoarele clasice
7	Conducerea roboților omnidirecționali	SL.dr.ing. Adriana Filipescu	Conducerea roboților omnidirecționali

5.3 **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 calitatea 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.	Siguranța muncii în minele subterane	2023

5.4 **Contracte/Granturi câștigate în competiții naționale/ internaționale**

Nr.	Nr.contract	Titlu proiect	Tip finanțare	Domeniul	UDJG	Director	Perioada	Valoarea

crt.			(național / internațional)	de cercetare	coordonator / partener	contract	de derulare	contractului alocata UDJG
1.	Contract nr. 899469/2020	Innovative high efficiency power system for machines and devices, increasing the level of work safety in underground mining excavations" (HEET II)"	Finanțare din fonduri internaționale	Inginerie Electrică	Partener	Prof.dr.habil. ing. Marian Găiceanu	2020 - 2023	320000Euro
2.	12/01.09.2016 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	16.560.175, 04 lei;
	Proiect FDI cod CNFIS-FDI-2023-F-0216	Acces și itegrare – Pași spre reușită UniverSitară	N			director Conf. dr. ing. Vlad Ciprian		
	PNRR, e-PNRR 2033414941	Digitalizarea pentru viitorul educației și cercetării în Universitatea „Dunărea de Jos" din Galați				director Conf. dr. ing. Vlad Ciprian		

Tabel 7.2

Teze de doctorat finalizate și în derulare

Nr.crt.	Titlul tezei de doctorat	Finalizat/ în derulare	Domeniul de doctorat	Numele și prenumele doctorandului	Numele și prenumele conducătorului de doctorat
1	*Contribuții la dezvoltarea unui sistem de monitorizare a pierderilor pe liniile electrice de înaltă tensiune prin supravegherea cu avioane fără pilot*	Finalizat 2020	Inginerie electrică	Vidan J. Cristian	Prof. dr. Găiceanu Marian
2	Contribuții privind protecția antipertubativă a sistemelor de comunicații de la bordul navelor militare	în derulare	Inginerie electrică	SOLCANU M. VASILE	Prof. dr. Găiceanu Marian
3	*Contribuții privind acționarea și conducerea vehiculelor autonome omnidirecționale cu 4*	în derulare	Inginerie electrică	BUHOSU C. RĂZVAN	Prof. dr. Găiceanu Marian

	roți motoare și directoare (Seekur)				
4	*Conducerea inteligentă a procesului de laminare a tablei*	în derulare	Inginerie electrică	SOLOMON M. MARIUS-GEORGE	Prof. dr. Găiceanu Marian
6	*Contribuţii privind sistemele de monitorizare şi control în acţionări electrice*	în derulare	Inginerie electrică	Stănescu Ionel	Prof. dr. Găiceanu Marian
7	*Contribuții privind soluții de calitate a energiei electrice*	în derulare	Inginerie electrică	MOCANU C. MARINELA (OLTI)	Prof. dr. Găiceanu Marian
8	Contributii privind monitorizarea si controlul calitatii energiei electrice prin convertoare statice de putere	în derulare	Inginerie electrică	Marin George Andrei	Prof. dr. Găiceanu Marian

Tabel 6.1.

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 safety in underground mining excavations" (HEET II)"	Finanțare din fonduri internaționale	Inginerie Electrică	Partener	Prof.dr.habil. ing. Marian Găiceanu	2020 - 2023	320000Euro
2.	12/01.09.2016 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	16.560.175, 04 lei;
	Proiect FDI cod CNFIS-FDI-2023-F-0216	Acces și itegrare – Pași spre reușită UniverSitară	N			director Conf. dr. ing. Vlad Ciprian		
	PNRR, e-PNRR 2033414941	Digitalizarea pentru viitorul educației și cercetării în Universitatea „Dunărea de Jos" din Galați				director Conf. dr. ing. Vlad Ciprian		

Tabel 6.2.

Contracte cu agenti economici (din străinătate/ din țară)

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
	34186/23.12.2021 CRESC-INTEL	CRESC-INTEL	național	Energie	UDJG coordonato	Prof.dr.habil. ing. Marian Gaiceanu	2021-2022 6600	
	1. Contract 805/10.05.2023	Proiectarea și implementarea unui sistem de monitorizare și management al acțiunilor zilnice specifice persoanelor vârstnice, utilizând tehnologie IoT și inteligență artificială,				director Vlad Ciprian		
	2. Contract 806/15.05.2023,	Aplicare măsuri de protecție electromagnetică pentru echipamente IT,				director Vlad Ciprian		

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Janine Ebersberger; Ralf Johannes Keuter; Bernd Ponick; Axel Mertens

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Taeyun Kim; Hyeoncheol Park; Yongsug Suh, Published in: 2023 11th International Conference on Power Electronics and ECCE Asia (ICPE 2023 - ECCE Asia), Date of Conference: 22-25 May 2023, Date Added to IEEE Xplore: 22 August 2023, DOI: 10.23919/ICPE2023-ECCEAsia54778.2023.10213731, Publisher: IEEE, Conference Location: Jeju Island, Korea
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Power Quality Enhancement of Wind Energy Systems

32. De Wessam Arafa Hafez, Adel A. Elbaset

Springer ISBN 978-3-031-4324-2

Comparison of three phase 4-leg shunt active power filter algorithms
Balanuta Ciprian; Gurguiatu Gelu; Munteanu Toader; Fetecau Grigore Electronic ISBN:978-1-4673-5003-7

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Castano S., Gauchia L., Voncila E., Sanz J., Energy Conversion and Management,
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R Karim, A Abdulrahman - SULAIMANI JOURNAL FOR …, 2022 - sjes.univsul.edu.iq
The requirement of using DC motor for driven water pump has gained more attention in the irrigation system due to high performance and wide range of speed control of DC motor and …
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Open Access Lumnitzer, E., Jurgovska, E.L., Andrejiova, M., Kralikova, R.

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55. Rotary shears are common part of the material processing lines. During the operation, these

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COSPAS-SARSAT is an International programme for" Search and Rescue"(SAR) missions

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LS Ugaz Guzman - 2023 - repositorio.ucv.edu.pe
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digiRESCUE: A Smart Personal Emergency Rescue System
B Kommey, E Tamakloe, BY Akowuah - JAREE (Journal on Advanced …, 2022 - jaree.its.ac.id

59. It is of no doubt that, emergencies occur without warning, and one does not predict the

outcome. This project seeks to design a personal emergency or panic alert system …
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M Selvaduray, C Pretom, N Yunus - Journal of Maritime Logistics, 2022 - journal.umt.edu.my
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The microgrid is a local power provider with advanced control tools. The capacity of energy resources is not so high in a microgrid and cannot be treated as a slack bus. Hence, the …
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This paper proposes the method based on multi-layer coupled networks to evaluate ship electromagnetic compatibility (EMC). Firstly, based on the theory of multi-layer coupled …
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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 …
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{Watermarking;Measurement;Real-time systems;Data integrity;Control systems;Receivers;Integrated circuit modeling;Watermark-based detection system;data integrity verification;industrial control systems},

The watermarking method, which adds unique watermarks to data, has been widely used for integrity attack detection in industrial control systems (ICSs). Existing literature generally …
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66. D Oberhofer, M Hornsteiner, S Schönig - arXiv preprint arXiv:2311.09991, 2023 - arxiv.org

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 …
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Industrial Control Systems (ICS) become a crucial target for hackers as these devices are unsupported in terms of storage, complex computations, and security. On the other hand …
[PDF] arxiv.org

DC microgrid control
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Review of control and energy management approaches in micro-grid systems
A Elmouatamid, R Ouladsine, M Bakhouya… - Energies, 2020 - mdpi.com

68. The demand for electricity is increased due to the development of the industry, the

electrification of transport, the rise of household demand, and the increase in demand for …
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A Comprehensive Review on DC Microgrid Controlling Techniques

R Maurya, D Nishad, AK Singh… - 2023 IEEE 3rd …, 2023 - ieeexplore.ieee.org

69. Nowadays, power systems are shifting towards the DC electrical nature to effectively

integrate with the green energy resources. Yet, most of the renewable energy sources are …
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Interference challenges on board military ships
[PDF] techrxiv.org

70. Spatial domain suppression of co-channel interference: A reflection amplifiers surface (RAS) approach

L Du, J Ma, C Fan, Q Liang, C Li, Y Tang - Authorea Preprints, 2023 - techrxiv.org
This paper adopts a novel reflection amplifiers surface (RAS) to suppress the co-channel interference in the spatial domain. The RAS can reflect and amplify the electromagnetic …
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[PDF] asia.ac.id

71. Design and Development of Alternative Energy Sources: Solar Power Plant in Kalandrina Selosia Residential Area RT 008/RW 008 Jayamukti Village

AA Saputra, E Anisa - Jurnal Pengabdian Masyarakat, 2023 - jurnal.stie.asia.ac.id
Purpose: This research paper aims to introduce a solar power plant in Kalandrina Selosia's residential area, addressing local energy needs sustainably. The study's significance lies in …

Real-time implementation of the advanced control of the three-phase induction machine based...

72. V/F control of AC motor using intelligent techniques

AF Nashee, KS Gaeid, AH Shallal… - AIP Conference …, 2023 - pubs.aip.org
In the industry, Induction Motors (IM) play vital roles in various applications. The optimal performance specification such as the speed and torque of the IM is needed, therefore its …

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Tabel 7.1.1.

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Nr.crt.	Date de identificare articol (Autori,Titlu, cod DOI articol, Titlul revistei, anul publicării)	Factor de impact
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2.	”Energy System Functioning Considering the Massive Integration of Variable Renewable Energy Sources”, Autor Gelu Gurguiatu - SIELMEN 2023 – Chișinău, 14th INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND ENERGY SYSTEMS, Organized by: FACULTY OF ELECTRICAL ENGINEERING OF CRAIOVA - ROMANIA FACULTY OF ELECTRICAL ENGINEERING OF IASI – ROMANIA FACULTY OF POWER AND ELECTRICAL ENGINEERING CHIȘINĂU - MOLDOVA	
3.	Analysis and Approximation of THD and Torque Ripple ofInduction Motor for SVPWM Control of VSI; Energies 16(12):4628 /https://www.mdpi.com/1996-1073/16/12/4628/ Grzegorz Sieklucki,* , Sylwester Sobieraj, Józef Gromba and Raluca-Elena Necula/Iunie 2023	3,2

TOTAL FI 6.09

Tabel 7.1.4.

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Nr.crt.	Date de identificare articol (Autori,Titlu articol, Volum, pagină / nr. articol)	Denumirea bazei de date

1.	1. Nicolae Badea; Ciprian Vlad;Cristian Victor Lungu, Modelling and Simulation of Grid-connected Inverter, 2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE), DOI: 10.1109/ISEEE58596.2023.10310535, https://ieeexplore.ieee.org/document/10310535	IEEE
2.	Ciprian Vlad, Nicolae Badea, Cristian Victor Lungu, Green Hydrogen – the fuel of the future. Overview, Annals of the University "Dunarea de Jos" of Galati, Fascicle III, vol. 46, 2023	EBSCO, Ulrich
3.	Nicolae Badea, Ciprian Vlad, Cristian Victor Lungu, Green Hydrogen production. New way of energy, Annals of the University "Dunarea de Jos" of Galati, Fascicle III, vol. 46, 2023	EBSCO, Ulrich
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5.	I. Voncilă, E. Selim, I. Paraschiv and **M. Costin**, "Thermal Regime of Induction Motors After Rewinding for Other Characteristics Than Those Established by Design," *2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE)*, Galati, Romania, 2023, pp. 104-109, doi: 10.1109/ISEEE58596.2023.10310455.	IEEE
6.	Adriana Burlibaşa; Romeo Păduraru; Traian Munteanu; Cristinel Dache; Teodor Dumitriu - **PV Simulator Packaged as a Standalone Application Based Docker Container -** Published in: 2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE) Date of Conference: 26-28 October 2023 Date Added to IEEE Xplore: 13 November 2023 ISBN Information: DOI: 10.1109/ISEEE58596.2023.10310554 Publisher: IEEE	IEEE
7.	R. Paduraru, C. Craciun, T. Munteanu and A. Burlibasa, "EMC Aspects in Power Conversion Systems for Marine Applications," ISEEE023, Galati, Romania, 2023, pp. 193-198, IEEE Xplore, doi: 10.1109/ISEEE58596.2023.10310650.	IEEE
8.	1. Adrian Filipescu, Daniela Cernega, Razvan Solea, Adriana Filipescu, Eugenia Minca, Dan Ionescu, Georgian Simion, Modeling and Control an A/DT Served by an ACPS based on SCADA, Industry 4.0 and 5.0, 28th IEEE International Conference on Emerging Technologies and Factory Automation, ETFA 2023, Sinaia, 12. 09. 2023-15.09. 2023,	IEEE

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9.	2.**Octavian Duca, Eugenia Minca, Adrian Filipescu, Razvan Solea, Daniela Cernega, Adriana Filipescu, Flexible Manufacturing with Integrated Robotic Systems in the Context of Industry 5.0, 28th IEEE International Conference on Emerging Technologies and Factory Automation, ETFA 2023, Sinaia, 12 September 2023 through 15 September 2023, https://doi.org/10.1109/ETFA54631.2023.10275349, ISSN: 1946-0759**	IEEE
10.	**3.** Adrian Filipescu, Eugenia Minca, Daniela Cernega, Razvan Solea, Adriana Filipescu, Simion Georgian, Dan Ionescu, Digital Twin Based a Processing Technology Assisted by a MCPRS, Ready for Industry 5.0, 97 - 3022023 27th International Conference on System Theory, Control and Computing, ICSTCC 2023Timisoara11 October 2023through 13 October 2023, https://doi.org/10.1109/ICSTCC59206.2023.10308478, ISSN: 2473-5698.	IEEE
11.	1. BOOK springer Comparative Analysis of the Electric Light Sources for the DC or AC Microgrid Use, Dumitrescu, Mariana Lecture Notes in Networks and Systems, Springer, Volume 605 LNNS, Pages 602 – 617, 2023 ISSN 23673370, ISBN 978-303122374-7, DOI 10.1007/978-3-031-22375-4_47 https://link.springer.com/chapter/10.1007/978-3-031-22375-4_47	IEEE
12.	2. BOOK springer DC Power Microgrid with Renewable Sources Design Case Study, Dumitrescu, Mariana Lecture Notes in Networks and Systems, Springer, Volume 605 LNNS, Pages 587 – 602, 2023 ISSN 23673370, ISBN 978-303122374-7, DOI 10.1007/978-3-031-22375-4_48 https://link.springer.com/chapter/10.1007/978-3-031-22375-4_48	IEEE
13.	1Operational Risk Analysis for the Electric Power Station Protections, Dumitrescu, Mariana , University 'Dunarea de Jos' Galati, Automation and Electrical Engineering Department, Romania Pages 38 – 43, 2023, 8th IEEE International Symposium on Electrical and Electronics Engineering, ISEEE 2023 , Galati 26 - 28 October 2023, Publisher: IEEE, ISBN 979-835030167-0, DOI10.1109/ISEEE58596.2023.10310549 https://ieeexplore.ieee.org/document/10310549	IEEE
14.	2Power Efficiency and Availability Computation with Stochastic Events Models Dumitrescu, Mariana, University 'Dunarea de Jos' Galati, Automation and Electrical Engineering Department, Romania 17th IEEE International Conference on Engineering of Modern Electric Systems, EMES 2023, Oradea 9 -10 June 2023; ISBN 979-835031063-4, DOI 10.1109/EMES58375.2023.10171710 https://ieeexplore.ieee.org/document/10171710	IEEE

15.	**3 Composite Algorithm and Application for Operational Fuzzy Risk Computing, Dumitrescu,** Mariana**, University 'Dunarea de Jos' Galati, Automation and Electrical Engineering Department, Romania** 7th IEEE International Conference on Engineering of Modern Electric Systems, EMES 2023, Oradea 9 -10 June 2023; ISBN 979-835031063-4, DOI 10.1109/EMES58375.2023.10171767 https://ieeexplore.ieee.org/document/10171767	IEEE
16.	2. State of Charge Estimation in Real Time of Li-Ion Battery Integrated on Electric Vehicles, Elena Selim, Ion Voncila, 2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE), pages 25-29, DOI: 10.1109/ISEEE58596.2023.10310390	IEEE
17.	3. Influence of Nonlinearity and Driving Angles on the Functional and Performance Characteristics at SRMs, Ion Voncilă, Elena Selim, 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), page:1-6, DOI: 10.1109/SIELMEN59038.2023.10290819	IEEE
18.	1. ANALYSIS AND SIMULATION IN SIMULINK/MATLAB OF A THREE-PHASE ACTIVE POWER FILTER, GA Marin, M. Gaiceanu, THE ANNALS OF "DUNĂREA DE JOS" UNIVERSITY OF GALATI, FASCICLE III, 2023, VOL. 46, NO. 1, ISSN 2344-4738, ISSN-L 1221-454X	IEEE
19.	2. ACTIVE HARMONICS ELIMINATION, M. Gaiceanu. C-R Dache, THE ANNALS OF "DUNĂREA DE JOS" UNIVERSITY OF GALATI, FASCICLE III, 2023, VOL. 46, NO. 1, ISSN 2344-4738, ISSN-L 1221-454X	IEEE
20.	Majout, B., Btissam Majout, Badre Bossoufi, Mohammed Karim, Marian Gaiceanu, Petru Livinti, Zakaria El Zair Laggoun, Ikram Saady & Houda El Alami (2023). Comparative Analysis of Predictive and Direct Power Control Strategies for PMSG-Based WECS. In: Motahhir, S., Bossoufi, B. (eds) Digital Technologies and Applications. ICDTA 2023. Lecture Notes in Networks and Systems, vol 669. Springer, Cham. https://doi.org/10.1007/978-3-031-29860-8_72	IEEE
21.	1. „The method of compensating non -linear effects due to disturbing signals in the military operations theatres“, Analele Universitatii "Eftimie Murgu" Resita. Fascicula de Inginerie Vol. 26, No. 1 (2019),pag. 213-220, ISSN 1453 - 7397, Vasile Solcanu, Marian Gaiceanu, 2019, http://anale-ing.uem.ro/2019.html 2. Publicarea in „The Scientific Bulletin of Electrical Engineering Faculty” published by Sciendo a lucrarii : „Modeling of Dispersion Magnetic Fields Developed by the Main Electromagnetic Systems Used on Military Ships”, V. Solcanu, M. Gaiceanu, M. Constantinescu, Ghe. Samoilescu, A. Sotir,	EBSCO

	DOI: https://doi.org/10.2478/sbeef-2020-0109 3. Publicarea in „The Scientific Bulletin of Electrical Engineering Faculty" published by Sciendo a lucrarii: „Modeling of the Dispersion Magnetic Fields for the Single-Phase Transformers", V. Solcanu, M. Gaiceanu, M. Constantinescu, Ghe. Samoilescu, A. Sotir, DOI: https://doi.org/10.2478/sbeef-2020-0111	

22.	DC MOTOR LOAD ANALYSIS AT HSM FINISHING TRAIN, Autors: Marius Solomon, Marian Gaiceanu HE ANNALS OF "DUNĂREA DE JOS" UNIVERSITY OF GALATI FASCICLE III, 2020, VOL. 43, NO. 1, ISSN 2344-4738, ISSN-L 1221-454X https://doi.org/10.35219/eeaci.2020.1.05 The Optimization of the Dynamic Regime of the Asynchronous Vectorial AC Motor in Flying Shear, Autors: Marius Solomon, Marian Gaiceanu Publisher: IEEE Electronic, Date Added to IEEE Xplore: 06 December 2021 ISBN:978-1-6654-3799-8 USB ISBN:978-1-6654-3798-1 https://doi.org/10.1109/ISEEE53383.2021.9628488 Non-linear control of 2WS vehicles, Autors: Răzvan Buhosu; Marian Găiceanu; Răzvan Șolea; Iulian Ghenea; Marius George Solomon Publisher: IEEE Electronic,Date Added to IEEE Xplore: 06 December 2021 ISBN:978-1-6654-3799-8 USB ISBN:978-1-6654-3798-1 https://doi.org/10.1109/ISEEE53383.2021.9628431 Interference Challenges on board Military Ships, autors Vasile Solcanu; Marian Gaiceanu; Marius Solomon Publisher: IEEE Electronic, Date Added to IEEE Xplore: 08 July 2020 ISBN:978-1-7281-2906-8 USB ISBN:978-1-7281-2905-1 https://doi.org/10.1109/ISEEE48094.2019.9136128 Intelligent Management of the Hot Rolling Mill Influence of the Automation System on Hot Rolling Parameters Autors:Marius Solomon; Marian Gaiceanu; Vasile Solcanu Publisher: IEEE Electronic, Date Added to IEEE Xplore: 08 July 2020 ISBN:978-1-7281-2906-8 USB ISBN:978-1-7281-2905-1 https://doi.org/10.1109/ISEEE48094.2019.9136105	

Tabel 7.1.5.

Comunicări ştiinţifice prezentate la conferinţe internaţionale

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

1.	Nicolae Badea; Ciprian Vlad;Cristian Victor Lungu, Modelling and Simulation of Grid-connected Inverter	2023 8th International, Symposium on Electrical and Electronics Engineering (ISEEE), DOI: 10.1109/ISEEE58596.2023.10310535		ACIEE
2.	**M. Costin** and C. Lazar, "Constrained Predictive Current Control in dq Frame for a Permanent Magnet Synchronous Machine," *2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA)*, Sinaia, Romania, 2023, pp. 1-4, doi: 10.1109/ETFA54631.2023.10275702.			
3.	I. Voncilă, E. Selim, I. Paraschiv and **M. Costin**, "Thermal Regime of Induction Motors After Rewinding for Other Characteristics Than Those Established by Design," *2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE)*, Galati, Romania, 2023, pp. 104-109, doi: 10.1109/ISEEE58596.2023.10310455.			
4.	”Energy System Functioning Considering the Massive Integration of Variable Renewable Energy Sources”, Autor Gelu Gurguiatu - SIELMEN 2023 – Chișinău, 14th INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND ENERGY SYSTEMS, Organized by: FACULTY OF ELECTRICAL ENGINEERING OF CRAIOVA - ROMANIA FACULTY OF ELECTRICAL ENGINEERING OF IASI – ROMANIA FACULTY OF POWER AND ELECTRICAL ENGINEERING CHIȘINĂU - MOLDOVA			
5.	Adriana Burlibașa; Romeo Păduraru; Traian Munteanu; Cristinel Dache; Teodor Dumitriu - **PV Simulator Packaged as a Standalone Application Based Docker Container -** Published in: 2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE) Date of Conference: 26-28 October 2023 Date Added to IEEE Xplore: 13 November 2023 ISBN Information: DOI: 10.1109/ISEEE58596.2023.10310554 Publisher: IEEE			
6.	R. Paduraru, C. Craciun, T. Munteanu and A. Burlibasa, "EMC Aspects in Power Conversion Systems for Marine Applications," ISEEE023, Galati, Romania, 2023, pp. 193-198, IEEE Xplore, doi:			

	10.1109/ISEEE58596.2023.10310650.			

7.	**1.** Adrian Filipescu, Daniela Cernega, Razvan Solea, Adriana Filipescu, Eugenia Minca, Dan Ionescu, Georgian Simion, Modeling and Control an A/DT Served by an ACPS based on SCADA, Industry 4.0 and 5.0, 28th IEEE International Conference on Emerging Technologies and Factory Automation, ETFA 2023, Sinaia, 12. 09. 2023-15.09. 2023, https://doi.org/10.1109/ETFA54631.2023.10275730, ISSN: 1946-0759.			
8.	2.**Octavian Duca, Eugenia Minca, Adrian Filipescu, Razvan Solea, Daniela Cernega, Adriana Filipescu, Flexible Manufacturing with Integrated Robotic Systems in the Context of Industry 5.0, 28th IEEE International Conference on Emerging Technologies and Factory Automation, ETFA 2023, Sinaia, 12 September 2023 through 15 September 2023, https://doi.org/10.1109/ETFA54631.2023.10275349, ISSN: 1946-0759**			
9.	**3.** Adrian Filipescu, Eugenia Minca, Daniela Cernega, Razvan Solea, Adriana Filipescu, Simion Georgian, Dan Ionescu, Digital Twin Based a Processing Technology Assisted by a MCPRS, Ready for Industry 5.0, 97 - 3022023 27th International Conference on System Theory, Control and Computing, ICSTCC 2023Timisoara11 October 2023through 13 October 2023, https://doi.org/10.1109/ICSTCC59206.2023.10308478, ISSN: 2473-5698.			
10.	1Operational Risk Analysis for the Electric Power Station Protections, Dumitrescu, Mariana , University 'Dunarea de Jos' Galati, Automation and Electrical Engineering Department, Romania Pages 38 – 43, 2023, 8th IEEE International Symposium on Electrical and Electronics Engineering, ISEEE 2023 , Galati 26 - 28 October 2023, Publisher: IEEE, ISBN 979-835030167-0, DOI10.1109/ISEEE58596.2023.10310549 https://ieeexplore.ieee.org/document/10310549			
11.	2Power Efficiency and Availability Computation with Stochastic Events Models Dumitrescu, Mariana, University 'Dunarea de Jos' Galati, Automation and Electrical Engineering Department, Romania 17th IEEE International Conference on Engineering of Modern Electric Systems, EMES 2023, Oradea 9 -10 June 2023; ISBN 979-835031063-4, DOI 10.1109/EMES58375.2023.10171710			

	https://ieeexplore.ieee.org/document/10171710			

12.	**3 Composite Algorithm and Application for Operational Fuzzy Risk Computing, Dumitrescu, Mariana, University 'Dunarea de Jos' Galati, Automation and Electrical Engineering Department, Romania** 17th IEEE International Conference on Engineering of Modern Electric Systems, EMES 2023, Oradea 9 -10 June 2023; ISBN 979-835031063-4, DOI 10.1109/EMES58375.2023.10171767 https://ieeexplore.ieee.org/document/10171767			
13.	2. State of Charge Estimation in Real Time of Li-Ion Battery Integrated on Electric Vehicles, Elena Selim, Ion Voncila, 2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE), pages 25-29, DOI: 10.1109/ISEEE58596.2023.10310390			
14.	3. Influence of Nonlinearity and Driving Angles on the Functional and Performance Characteristics at SRMs, Ion Voncilă, **Elena Selim**, 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), page:1-6, DOI: 10.1109/SIELMEN59038.2023.10290819			
15.	1. GREEN VEHICLE MARKET TRENDS IN EUROPE, **Elena Selim**,International Conference „Interdiciplinarity and Cooperation in Cross-Border Research. Economy and Technology", October 19-21, 2023 Cahul, Republic of Moldova			
16.	2. DIGITALIZATION AND ENERGY EFFICIENCY IN THE DEVELOPMENT OF SUSTAINABLE CITIES, Alina Florentina SĂRACU, **Elena SELIM**, Ecaterina Milica DOBROTA, Gabriel SĂRACU, International Conference „Interdiciplinarity and Cooperation in Cross-Border Research. Economy and Technology", October 19-21, 2023 Cahul, Republic of Moldova			
17.	3. INNOVATIVE SOLUTIONS FOR ACCELERATING URBAN MOBILITY, Gabriel SĂRACU, **Elena SELIM**, Alina Florentina SĂRACU, Adriana DIMA, Ecaterina Milica DOBROTA, Cristina ANTOHI, International Conference „Interdiciplinarity and Cooperation in Cross-Border Research. Economy and Technology", October 19-21, 2023 Cahul, Republic of Moldova			
18.	Marian Găiceanu, Razvan Buhosu, Răzvan Șolea, Development of the monitoring and communication system for mine integration, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS Programmes SCDS – UDJG 2023, 11th Edition of SCDS-UDJG, 8th and 9th of June 2023 IL.5.1.,			

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19.	George-Andrei Marina, Marian Gaiceanu, Analysis of active three-phase power filters, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS Programmes SCDS – UDJG 2023, 11th Edition of SCDS-UDJG, 8th and 9th of June 2023 IL.5.1., Perspectives and challenges in doctoral research Section S.5: Advanced research in electrical / electronic engineering, system engineering and information technologies, https://cssd-udjg.ugal.ro/images/2023/10/Book%20of%20abstract%202023%20(1).pdf			
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21.	Vasile Solcanua,*, Marian Găiceanu, Georgiana Rosuc, Marius Solomon, Nuclear electromagnetic pulse and risks to communications systems on board military ships, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS Programmes SCDS – UDJG 2023, 11th Edition of SCDS-UDJG, 8th and 9th of June 2023, Perspectives and challenges in doctoral research Section S.5: Advanced research in electrical / electronic engineering, system engineering and information technologies, https://cssd-udjg.ugal.ro/images/2023/10/Book%20of%20abstract%202023%20(1).pdf			
22.	Răzvan Buhosua,*, Marian Gaiceanu, Optimal control of a military 4WS autonomous vehicle, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS Programmes SCDS – UDJG 2023, 11th Edition of SCDS-UDJG, 8th and 9th of June 2023, Perspectives and challenges in doctoral research Section S.5: Advanced research in electrical / electronic engineering, system engineering and information technologies, https://cssd-udjg.ugal.ro/images/2023/10/Book%20of%20abstract%202023%20(1).pdf			
23.	Marius Solomona,*, Marian Găiceanua, Vasile Solcanu, The optimizatios of the operating regime of a three-phase medium voltage asynchronous motor serving a high pressure pump, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS Programmes SCDS – UDJG 2023, 11th Edition			

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24.	Majout, B., Btissam Majout, Badre Bossoufi, Mohammed Karim, Marian Gaiceanu, Petru Livinti, Zakaria El Zair Laggoun, Ikram Saady & Houda El Alami (2023). Comparative Analysis of Predictive and Direct Power Control Strategies for PMSG-Based WECS. In: Motahhir, S., Bossoufi, B. (eds) Digital Technologies and Applications. ICDTA 2023. Lecture Notes in Networks and Systems, vol 669. Springer, Cham. https://doi.org/10.1007/978-3-031-29860-8_72			
25.	**SCDS-UDJG 2021, Galați, 10th and 11th of June 2021** ,,The function of synchronous motor with different field current values applicable'', Raluca-Elena Necula, 2021 **SCDS-UDJG 2022, The Tenth Edition Galați, 9th and 19th of June 2022** **”**DC or AC Drives-comparative study”, Raluca-Elena Necula, 2022 ''Gantry Crane Energy-based Load Stability Control'' Raluca-Elena Necula, Marian Găiceanu, 2022 **SCDS-UDJG 2023 The Eleventh Edition, GALAŢI, 8th-9th of June 2023** ”Optimization the starting current of a three-phase asynchronous motor”,Raluca-Elena Necula 2023 ''Minimization of the DC motor losses by using Quadratic Performance Criteria'', Raluca-Elena Necula, Marian Găiceanu, 2023			
26.	**1.The enigmas of telepresence and teleoperation systems ..**, Conferința Științifică a Școlilor Doctorale a Universității „Dunărea de Jos” din Galați (Ediția 10-a), Ionel Stănescu, Marian Gaiceanu, 2022. **2. Electrical simulation of discharges producing non-thermal plasma ..**, Conferința Științifică a Școlilor Doctorale a Universității „Dunărea de Jos” din Galați (Ediția 11-a),			

	Ionel Stănescu, Marian Gaiceanu, 2023 3.**Electrical simulation of discharges producing non-thermal plasma ..**, Conferința Științifică a Școlilor Doctorale a Universității „Dunărea de Jos” din Galați (Ediția 11-a), Ionel Stănescu, Marian Gaiceanu, 2023			

27.	1.**Analysis of active three-phase power filters**, Conferința Științifică a Școlilor Doctorale a Universității „Dunărea de Jos” din Galați (Ediția 11-a), George-Andrei Marin, Marian Gaiceanu, 2023 2.**Analysis electrical installation used on ship** , Conferința Științifică a Școlilor Doctorale a Universității „Dunărea de Jos” din Galați (Ediția 11-a), George-Andrei Marin, Marian Gaiceanu, 2023			
28.				
29.	1. "Interference Challenges on board Military Ships", 6th International Symposium on Electrical and Electronics Engineering (ISEEE), Galati, Vasile Solcanu, Marian Gaiceanu, Marius Solomon, 2019, http://www.iseee.ugal.ro/2019/ 2. “The results of the electromagnetic field measurements performed on a military maritime ship to determine the effectiveness of a radio-absorbent material”, 6th International Symposium on Electrical and Electronics Engineering (ISEEE), Galati, Vasile Solcanu, Marian Gaiceanu, Alexandru Sotir, Gheorghe Samoilescu, Mircea Constantinescu, 2019 http://www.iseee.ugal.ro/2019/ 3. "Intelligent Management of the Hot Rolled Steel Sheet. Influence of the Automation System on Hot Rolling Parameters", 6th International Symposium on Electrical and Electronics Engineering (ISEEE), Galati, Marius Solomon, Marian Gaiceanu, Vasile Solcanu, http://www.iseee.ugal.ro/2019/ 4. "Naval analysis of an asynchronous machine in generator mode and electromagnetic brake", Al 12-lea			

	Workshop International de Compatibilitate Electromagnetica – CEM 2020; Sinaia – România, 3 – 5 Noiembrie 2020, D. Iorgulescu, Ghe. Samoilescu, V. Solcanu, C. Barbulescu, http://www.icpe-ca.ro/icpe-ca/evenimente/cem2020/program.pdf, 2020. 5. "Basic electromagnetic compatibility equation for radio communication systems on board military ships", International Symposium on Fundamentals of Electrical Engineering 2020, University Politehnica of Bucharest, Romania, November 5–7, 2020,V. Solcanu, M. Găiceanu, M. Constantinescu, A. Bordianu, Ghe. Samoilescu, A. Sotir, 2020. 6. "Global modeling of the leakage magnetic field in a volume of interest on a military ship (ship compartment)",International Symposium on Fundamentals of Electrical Engineering 2020, University Politehnica of Bucharest, Romania, November 5–7, 2020 V. Solcanu, M. Găiceanu, M. Constantinescu, A. Bordianu, Ghe. Samoilescu, A. Sotir, 2020. 7. "Applications of the asynchronous motor in the anchoring installation - simulation and advantages", International Symposium on Fundamentals of Electrical Engineering 2020, University Politehnica of Bucharest, Romania, November 5–7, 2020, D. Iorgulescu, Ghe. Samoilescu, V. Solcanu, M. Bălăceanu, C. Bărbulescu, Adelina Bordianu, 2020			

30.	1. Participare la Seventh Edition of the Scientific Conference of the Doctoral Schools of „Dunarea de Jos” University, Galati13-14 iunie 2019. cu lucrarea „Study of co-channel interference on board military ships”. 2. Participarea la Seventh Edition of the Scientific Conference of the Doctoral Schools of „Dunarea de Jos” University, Galati13-14 iunie 2019 cu posterul „Cyber-Physical System for Critical Infrastrucures”. 3. Participare la: a VIII a Conferinţă Ştiinţifică a Şcolilor Doctorale organizată de Universitatea "Dunărea de Jos" din Galaţi (CSSD-UDJG), 18 – 19 Iunie 2020, Galaţi cu lucrarea „Military EMC standards” Vasile Solcanu, Marian Gaiceanu1. 4. Participare la SCDS-UDJG 2021, Galați, 10th and 11th of June 2021 cu lucrarea „Application of the basic equation of electromagnetic compatibility for naval communications systems taking into account the main NATO military standards” . 5. Participare la SCDS-UDJG 2021, Galați, 10th and 11th of June 2021 cu lucrarea „Participare la SCDS-UDJG 2021, Galați, 10th and 11th of June 2021 cu lucrarea „Study of the resistance to disturbances of the main types of communication systems on board military ships used during interception or search and rescue missions”. 6. Participare la SCDS-UDJG 2022, Galați, 9th and 10th of June 2022 cu lucrarea „Algorithm for calculating the values of the disturbance of the magnetic field in a technical compartment of a military maritime ship”. 7. Participare la SCDS-UDJG 2023, Galați, 8th and 9th of June 2023 cu lucrarea “Algorithm for determining the spatial distribution of the dispersion magnetic field produced by electric machines”.			

	8. Participare la SCDS-UDJG 2023, Galați, 8th and 9th of June 2023 cu lucrarea “Nuclear electromagnetic pulse and risks to communications systems on board military ships”			

31.	DC MOTOR LOAD ANALYSIS AT HSM FINISHING TRAIN, Autors: Marius Solomon, Marian Gaiceanu HE ANNALS OF "DUNĂREA DE JOS" UNIVERSITY OF GALATI FASCICLE III, 2020, VOL. 43, NO. 1, ISSN 2344-4738, ISSN-L 1221-454X https://doi.org/10.35219/eeaci.2020.1.05 The Optimization of the Dynamic Regime of the Asynchronous Vectorial AC Motor in Flying Shear, Autors: Marius Solomon, Marian Gaiceanu Publisher: IEEE Electronic, Date Added to IEEE Xplore: 06 December 2021 ISBN:978-1-6654-3799-8 USB ISBN:978-1-6654-3798-1 https://doi.org/10.1109/ISEEE53383.2021.9628488 Non-linear control of 2WS vehicles, Autors: Răzvan Buhosu; Marian Găiceanu; Răzvan Șolea; Iulian Ghenea; Marius George Solomon Publisher: IEEE Electronic,Date Added to IEEE Xplore: 06 December 2021 ISBN:978-1-6654-3799-8 USB ISBN:978-1-6654-3798-1 https://doi.org/10.1109/ISEEE53383.2021.9628431 Interference Challenges on board Military Ships, autors Vasile Solcanu; Marian Gaiceanu; Marius Solomon Publisher: IEEE Electronic, Date Added to IEEE Xplore: 08 July 2020 ISBN:978-1-7281-2906-8 USB ISBN:978-1-7281-2905-1 https://doi.org/10.1109/ISEEE48094.2019.9136128 Intelligent Management of the Hot Rolling Mill Influence of the Automation System on Hot Rolling Parameters Autors:Marius Solomon; Marian Gaiceanu; Vasile Solcanu			

	Publisher: IEEE Electronic, Date Added to IEEE Xplore: 08 July 2020 ISBN:978-1-7281-2906-8 USB ISBN:978-1-7281-2905-1 https://doi.org/10.1109/ISEEE48094.2019.9136105			

Tabel 7.1.6.

Comunicări ştiinţifice prezentate la conferinţe naţionale

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

Tabel 7.1.7.

Brevete de invenţie (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; EPURE SILVIU IONUȚ; ȘOLEA RĂZVAN CONSTANTIN; BUHOSU RĂZVAN.

Tabel 7.1.9
Produse/servicii/tehnologii rezultate din activităţi 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 şi tehnologice, normative, proceduri, metodologii şi planuri tehnice, noi sau perfecţionate, comandate sau utilizate de beneficiar

Nr. crt.	Denumire studiu, normativ, procedura, metodologie etc.
1.	-Studii privind alegerea și implementarea sistemelor de acţionare electrică cu performanțe energetice ridicate
2.	-Studii privind alegerea și dimensionarea sistemelor regenerative de acţionare electrică
3.	Proiectarea, instalarea şi punerea în funcţiune a sistemelor cu logică programabilă (PLC) pentru comanda acţionărilor electrice.
4.	-Acţionări electrice şi 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.
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 creşterea calităţii energiei electrice și compensarea puterii reactive
10.	-Proiectarea și realizarea convertoarelor statice de putere pentru creşterea calităţii 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 si 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.

Propuneri proiecte în cadrul programelor naționale și internaționale cvlad

1. Transnational Tecnology Transfer Network for Black Sea Basin, ID: BSB00264, acronym: T3N-BSB

2. Smart joint solutions for developing green integrated aquaculture incubators, ID: BSB00426, acronym: SmartBlue4Green IV

Propuneri proiecte în cadrul programelor naționale și internaționale

Project Title: Get Ready for Smarter Automotives.

Topic: Fire Safety of Lithium-Ion Batteries in Road Vehicles

ERASMUS+ PROGRAMME (ALLIANCES FOR EDUCATION AND ENTERPRISES) ERASMUS-EDU-2023-PI-ALL-INNO-EDU-ENTERP/ERASMUS Lump Sum Grants

3 Premii Gala CEREX 2023 (2 proiecte cu companiile si echipa)

Apartenenţa la organizaţii/societăţi profesionale/ştiinţifice naţionale, - membru în organismul de conducere

1. AREL - Asociaţia Romana a Electricienilor, vice-preşedinte sucursala Galaţi
2. Asociația de Automatică, Calculatoare, Inginerie Electrică şi Electronică - secretar și membru fondator
3. ARES - Asociaţia Română de Electrosecuritate, vice-preşedinte sucursala Galaţi

Apartenenţa la organizaţii/societăţi profesionale/ştiinţifice naţionale, - membru

1. Membru SIEAR , Societatea de Instalaţii Electrice si Automatizări din România

Reprezentant CNR-CMEGG

IP

Apartenenţa la organizaţii/societăţi profesionale/ştiinţifice internaţionale, - membru

1. Membru al European Wind Energy Association (EWEA)

Apartenenţa la organizaţii/societăţi profesionale/ştiinţifice naţionale, - membru

1. Membru Asociaţia Inginerilor din Romania - AGIR
2. Membru al Asociaţiei Specialiştilor în Automatică, Calculatoare şi Inginerie Electrică din Galaţi (ASACIEG)
3. Membru al Asociaţiei Inginerilor Electricieni şi Electronişti din România (AIEER)
4. Membru Asociaţia Română a Electricienilor (AER)

Activităţi cu finalitate cultural-educativă, detaliate prin contracte explicite de parteneriat dintre Universitate şi alte instituţii cu rol ştiinţific, educativ, cultural (spre exemplu inspectoratele şcolare, Casa Corpului Didactic, licee etc.)

1. Participare la „Noaptea Cercetatorului”

Organizare

Preşedinte, co-preşedinte (chairman, co-chairman) al comitetului de organizare al unei manifestări ştiinţifice naţionale (conferință/congres), cu comitet ştiinţific internaţional şi participare internaţională

1. SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS Programmes SCDS – UDJG 2023, 11th Edition of SCDS-UDJG, 8th and 9th of June 2023, Perspectives and challenges in doctoral research Section S.5: Advanced research in electrical / electronic engineering, system engineering and information technologies,, https://cssd-udjg.ugal.ro/images/2023/10/Book%20of%20abstract%202023%20(1).pdf , https://cssd-udjg.ugal.ro/index.php/en/ (accesatian2023)