



**Facultatea de Electronică, Comunicații și Calculatoare**  
**Departamentul de Electronică, Calculatoare și**  
**Inginerie Electrică**

Str. Târgu din vale, nr. 1, Pitești – 110040, jud. Argeș, Romania  
Tel. +40 348 453 201, Fax. +40 348 453 200, [www.upit.ro](http://www.upit.ro)

***Brosura anuală a cercetării la DECIE\_FECC-2015***

***1. Organizarea activităților de Cercetare, Dezvoltare și Inovare***

În cadrul **Facultății de Electronică, Comunicații și Calculatoare (FECC)**, precum și a **Departamentului de Electronică, Calculatoare și Inginerie Electrică (DECIE)**, activitățile de cercetare, dezvoltare și inovare (CD&I) sunt susținute de implicarea nemijlocită a cadrelor didactice, doctoranzilor, masteranzilor, studenților din anii terminali ai ciclului de licență, precum și a partenerilor și colaboratorilor externi.

***1.1. Direcții de cercetare***

**Domeniul Electronică și Telecomunicații**

- Modelarea și simularea proceselor, dispozitivelor, circuitelor și conexiunilor microelectronice;
- Proiectarea optimă a proceselor, dispozitivelor, circuitelor și conexiunilor microelectronice;
- Metodologii software (CAD/CAE și Grafică computerizată în ingineria electronică);
- Sisteme bazate pe microprocesoare și microcontrolere;
- Sisteme dedicate (Embedded Systems);
- Rețele de senzori;
- Prelucrarea semnalelor uni și multidimensionale;
- Sisteme de achiziție și procesare date;
- Măsurări electrice și electronice;
- Echipamente electronice medicale și aplicații ale bioingineriei;
- Sisteme pentru telemedicină și e-health;
- Electronică de putere;
- Conversia energiei din surse regenerabile și/sau nepoluante;
- Managementul surselor de putere autonome;
- Optimizarea conversiei de putere;
- Convertoare electronice cu destinație specială (sisteme de propulsie, echipamente auto, generatoare eoliene) și/sau cu eficiență ridicată;
- Surse regenerabile de energie;
- Sisteme inteligente de acționări electrice;
- Senzori și transductoare;
- Compatibilitate electromagnetică;
- Tehnici de transmisie și recepție;
- Sisteme de comunicații;
- Rețele de comunicații;
- Sisteme de comutație și ingineria traficului;
- Managementul telecomunicațiilor;
- Microunde și comunicații optice;
- Comunicații mobile;
- Comunicații multimedia;
- Antene inteligente;
- Procesare de imagini;
- Protocoale de comunicație;
- Software pentru rețele și servicii de telecomunicații;
- Arhitecturi de rețea și tehnologii pentru rețele de comunicații fixe și mobile;
- Subsisteme pentru comunicații de voce, date și integrate;
- Prelucrarea optică a informației;



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- Dispozitive și circuite electronice aferente sistemelor optoelectronice;
- Sisteme de transport inteligente și echipamente de monitorizare;
- Ingineria sistemelor cu inteligență artificială.

**Domeniul Calculatoare și Tehnologia Informațiilor**

- Arhitectura Calculatoarelor;
- Hardware reconfigurabil;
- Sisteme Bioinspirate;
- Baze de Date;
- Inteligență artificială și calcul neuronal;
- Recunoașterea formelor;
- Inginerie software;
- Sisteme distribuite;
- Arhitecturi paralele de calcul;
- Securitatea sistemelor de calcul;
- Sisteme de protecția informației;
- Analiză formală, modelare, simulare și optimizare software și hardware;
- Dezvoltare de software de bază și de aplicații;
- Tehnologii informaționale aplicate (Web, OOP, Java);
- Sisteme pentru aplicații în Timp-Real;
- Calcul mobil;
- Sisteme software și hardware de procesare paralelă și distribuită;
- Sisteme de control, control inteligent, robotică;
- Gestiunea rețelelor de calculatoare, protocoale Internet, rețele locale de calculatoare pentru industrie și servicii;
- Asistență tehnică, expertiză și consultanță în gestiunea și transferul tehnologiilor informațiilor;
- Proiectarea de sisteme de programe orientate pe obiect;
- Educație/e-Learning și e-Training în ingineria asistată de calculator.

**Domeniul Inginerie Electrică**

- Echipamente și sisteme electrice și electronice;
- Instrumentație, achiziții de date și măsurări;
- Autovehicule/Echipamente electrice și electronice pentru autovehicule;
- Mecatronică;
- Modelarea, proiectarea și simularea sistemelor electrice și electronice;
- Sisteme de conversie a energiei;
- Sisteme de surse regenerabile;
- Sisteme de control industrial;
- Sisteme autonome (software și hardware cu capacitate de funcționare autonomă).

**1.2. Laboratoare/Centre de cercetare**

Activitatea de cercetare științifică se derulează în laboratoare moderne aflate în structura administrativă a Departamentului de Electronică, Calculatoare și Inginerie Electrică (DECIE). Managementul activităților CD&I este condus operațional și strategic prin două centre de cercetare, recunoscute CNCSIS, ce activează în FECC:

- Centrul de Cercetare “**Modelarea și Simularea Proceselor și Sistemelor**” (MSPS), coordonat de *Prof. dr. ing. Gheorghe Șerban*.
- Centrul de Cercetare “**Electromet**”, coordonat de *Conf. dr. ing. Eugen Diaconescu*.



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### **1.3. Domenii și colective de cercetare**

**Facultatea de Electronică, Comunicații și Calculatoare –FECC**  
**Departamentul Electronică, Calculatoare și Inginerie Electrică - DECIE**

| <b>Domeniul de cercetare /<br/>Colectiv de cercetare cadre didactice</b>                                                                                                                                                                                                                                                                         | <b>Discipline din planurile de învățământ gestionate de<br/>DECIE acoperite de prin tematica de cercetare</b>                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sisteme de putere distribuite alimentate din<br/>surse neconventionale de energie/ Nicu Bizon,</b><br>Marian Răducu, Mihai Oproescu, Alin Mazăre                                                                                                                                                                                              | Sisteme de intrare-ieșire, Sisteme distribuite, Electrotehnică, Teoria sistemelor, Dispozitive electronice și electronică analogică, Electronica industrială, Electronică de putere, Modelarea și simularea proceselor și sistemelor.                                                                                                                                                                                                                                          |
| <b>Sisteme hardware și software pentru electronică<br/>și calculatoare/ Gheorghe Șerban, Gabriel Iana,</b><br>Laurențiu Ionescu, Ionel Bostan, Alin Mazare,<br>Petre Angheliescu, Florin Birleanu                                                                                                                                                | Proiectare logică, Electronică digitală, Microprocesoare și limbaje de asamblare, Proiectarea cu microprocesoare, Programarea în limbaje de descriere hardware, Structuri hardware reconfigurabile, Calculatoare numerice, Structura și organizarea calculatoarelor, Procesoare digitale de semnal, Sisteme în timp real, Tehnici CAD în realizarea modulelor electronice, Sisteme hardware DSP în controlul proceselor, Tehnici CAD în realizarea modulelor electronice,      |
| <b>Programare obiect orientată/ Alexandru Ene,</b><br>Cosmin Știrbu, Laurențiu Ionescu, Petre<br>Angheliescu                                                                                                                                                                                                                                     | Programarea calculatoarelor și limbaje de programare, Structuri de date, Programarea orientată pe obiecte, Programarea în Java, Tehnologii internet, Programare pentru web, Programare în medii Visual.                                                                                                                                                                                                                                                                        |
| <b>Analiza formală, modelarea și optimizarea<br/>software și hardware/ Petre Angheliescu,</b><br>Alexandru Ene, Marian Raducu, Corina Săvulescu,<br>Valeriu Ionescu, Alin Berechet, Florin Birleanu                                                                                                                                              | Proiectarea algoritmilor, Programare logică și programare funcțională, Ingineria programelor, Limbaje formale și transatoare, Programarea calculatoarelor și limbaje de programare, Structuri de date, Analiza algoritmilor, Paradigme de programare, Metode formale de testare și verificare, Criptografie și securitate informațională, Interfețe avansate, Sisteme de operare, Staistică și prelucrarea datelor experimentale.                                              |
| <b>Comunicații integrate/ Ioan Liță, Valeriu</b><br>Ionescu, Bogdan Cioc, Daniel Vișan, Monica Anca<br>Chiță, Mihaela Rodica Teodorescu                                                                                                                                                                                                          | Rețele de calculatoare, Protocoale de comunicații, Rețele locale de calculatoare, Achiziția și prelucrarea datelor, Teoria transmisiunii informației, Decizie și estimare în prelucrarea informației Circuite de microunde, Antene și propagare, Senzori si interfete de comanda si control in tehnol. Asistive, Comunicații de date, Automatizări în electronică și telecomunicații, Senzori și actuatoare, Semnale și sisteme, Programare în Labview,                        |
| <b>Control automat și inteligență artificială/ Silviu</b><br><b>Ionită, Gheorghe Gavrilăoia, Gheorghe Șerban,</b><br>Alexandru Ene, Ionel Bostan, Petre Angheliescu,<br>Laurențiu Ionescu, Gabriel Iana, Monica Anca<br>Chiță, Alin Mazăre, Cosmin Știrbu, Dumitru<br>Cazacu, Robert Beloiu , Florentina Magdalena<br>Enescu, Mariana Iorgulescu | Bazele inteligenței artificiale, Programare în Matlab, Metode numerice, Modelare și simulare, Ingineria sistemelor cu inteligenta artificiala, Rețele neuronale, Interfețe avansate, Sisteme expert, Sisteme cu inteligență artificială pt. cond. Proceselor, Modele ale inteligenței artificiale, Bazele roboticii, Microsisteme cu microprocesoare și microcontrolere, Senzori si interfete de comanda si control in tehnologii asistive, Sisteme pentru control inteligent. |
| <b>Sisteme software și hardware de procesare</b>                                                                                                                                                                                                                                                                                                 | Grafică asistată de calculator, Elemente de grafică pe                                                                                                                                                                                                                                                                                                                                                                                                                         |



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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>paralelă și distribuită și procesare imagini/ Alexandru Ene, Gheorghe Gavriloaia, Ștefan Oprea, Adrian Zafiu, Petre Anghelescu, Valeriu Ionescu, Alin Berechet, Cosmin Știrbu, Florin Birleanu, Florentina Enescu, Eugen Diaconescu, Cristian Georgescu</b> | calculator, Sisteme de prelucrare grafică, Algoritmi paraleli și distribuiți, Programare paralelă, Proiectarea algoritmilor, Sisteme de prelucrare grafică, Sisteme video, Televiziune, Achiziția, prelucrarea digitală și transmisia de imagini, Sisteme distribuite de control, Prelucrare grafică.                                                                                                                                                                                                                             |
| <b>Sisteme complexe de măsurări/ Ioan Liță, Ștefan Oprea, Bogdan Cioc, Daniel Vișan, Monica Anca Chiță, Mihaela Rodica Teodorescu</b>                                                                                                                          | Achiziția și prelucrarea datelor, Măsurători electronice, Senzori și interfețe de comandă și control în tehnologii asistive, Senzori și actuatori, Comunicații de date, Sisteme de măsurare în electronică, Semnale și sisteme, Optoelectronică și comunicații optice.                                                                                                                                                                                                                                                            |
| <b>Circuite și sisteme analogice utilizate în electronică și optoelectronică/ Nicu Bizon, Marian Răducu, Ionel Bostan, Florin Bărlăanu, Adrian Iordăchescu, Mihai Oproescu</b>                                                                                 | Bioinformatică, Informatică medicală, Dispozitive electronice și electronică analogică, Circuite integrate analogice, Comunicații optice.                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Electronica aplicată în sisteme hibride/ Marian Răducu, Nicu Bizon, Ionel Bostan, Mihai Oproescu, Alin Mazăre, Laurențiu Ionescu</b>                                                                                                                        | Dispozitive electronice, Circuite electronice fundamentale, Electronică analogică, Dispozitive electronice și electronică analogică, Convertoare statice, Electronica industrială, Electronică de putere, Teoria sistemelor, Modelarea și simularea proceselor și sistemelor, Circuite integrate analogice, Electronică digitală, Circuite electronice pentru implementarea sistemelor inteligente, Măsurări în electronică și telecomunicații, Tehnici CAD în realizarea modulelor electronice, Sisteme de control în timp real. |
| <b>Sisteme de conversie a energiei/ Luminița Mirela Constantinescu, Constantin Stoica, Nicu Bizon, Răducu Marian, Oproescu Mihai, Eugen Diaconescu, Magdalena Alexandru, Enache Bogdan-Adrian</b>                                                              | Surse de energie, Sisteme hibride de energie electrică, Traductoare, Măsurări electrice și electronice, Interfețe și achiziții de date & Instrumentație virtuală, Convertoare fotoelectrice.                                                                                                                                                                                                                                                                                                                                      |
| <b>Modelarea, simularea, controlul și acționarea sistemelor electromecanice/ Eugen Diaconescu, Dumitru Cazacu, Constantin Stoica, Luminița Mirela Constantinescu, Robert Beloiu, Florentina Magdalena Enescu, Mariana Iorgulescu, Enache Bogdan-Adrian</b>     | Metode numerice în inginerie electrică, Convertoare electromagnetice, Mașini electrice, Sisteme de acționare electrice, Sisteme automate, Teoria câmpului electromagnetic, Teoria circuitelor electrice, Prelucrarea semnalelor, Sisteme cu microprocesoare, Interfețe și achiziții de date.                                                                                                                                                                                                                                      |



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## 2. Raportarea activității de cercetare pe anul calendaristic 2015

|   |                       |    |                                                                                |                                                                    |                                                                                                                                  |                                                   |             |
|---|-----------------------|----|--------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------|
| B | Cercetare științifică | 1. | <b>Monografii, tratate publicate în edituri recunoscute din străinătate</b>    |                                                                    |                                                                                                                                  |                                                   |             |
|   |                       |    | Nr.                                                                            | Autori                                                             | Titlul                                                                                                                           | Editura                                           | Anul/Pagini |
|   |                       |    | 1                                                                              | R. Beloiu                                                          | Teaching Control Systems in Electrical Engineering Education Programs Progress in Education. Volume 37, Editors: Roberta V. Nata | Nova Science Publishers Inc., USA                 | 2015/37     |
|   |                       | 2. | <b>Monografii, tratate publicate în Editura Academiei</b>                      |                                                                    |                                                                                                                                  |                                                   |             |
|   |                       |    | Nr.                                                                            | Autori                                                             | Titlul                                                                                                                           | Anul/ Pagini                                      |             |
|   |                       |    | 1                                                                              |                                                                    |                                                                                                                                  |                                                   |             |
|   |                       | 3. | <b>Monografii, tratate publicate în edituri recunoscute de CNCSIS sau CNCS</b> |                                                                    |                                                                                                                                  |                                                   |             |
|   |                       |    | Nr.                                                                            | Autori                                                             | Titlul                                                                                                                           | Editura                                           | Anul/Pg     |
|   |                       |    | 1                                                                              | Daniel Alexandru Vișan, Ioan Liță, Mariana Jurian, Ion Bogdan Cioc | Dispozitive semiconductoare pentru microunde                                                                                     | Ed. Matrix Rom, Bucuresti                         | 2015/221    |
|   |                       |    | 2                                                                              | Voicu, N., Constantinescu, L. M., Ghencea, D.P.                    | Chestiuni speciale de electrotehnică                                                                                             | Editura Matrix Rom, 2015 ISBN: 978-606-25-0163-1, | 2015/ 171   |
|   |                       |    | 3                                                                              | Ene Alexandru                                                      | Programare orientata pe obiecte. Lucrări de laborator                                                                            | Ed. Univ.Pitesti                                  | 2015/178    |
|   |                       |    | 4                                                                              | Ene Alexandru                                                      | Programare pentru web. Lucrari de laborator                                                                                      | Ed. Univ.Pitesti                                  | 2015/125    |
|   |                       |    | 5                                                                              | Monica-Anca Chita, Grigore-Adrian Iordachescu                      | Grafica asistata de calculator: teorie si aplicatii                                                                              | Matrix Rom                                        | 2015/120    |
|   |                       |    | 6                                                                              | Valeriu Manuel Ionescu                                             | "Rețele de calculatoare. Aplicații", e-ISBN: 978-606-560-426-1                                                                   | Ed. Universității din Pitești, 2015               | 2015/90     |



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|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|  |  |  | 7                                                                                                                                                                             | Valeriu Manuel Ionescu, Grigore-Adrian Iordachescu | Comunicatii, virtualizare si procesare multimedia                                            | Editura Universitatii din Pitesti                                                                                                                                                     | 2015/148 |
|  |  |  | 8                                                                                                                                                                             | I. Bostan                                          | Circuite logice secvențiale – Teorie și aplicații                                            | MatrixRom                                                                                                                                                                             | 2015/300 |
|  |  |  | 9                                                                                                                                                                             | Enescu Fl.                                         | Inițiere în HMI/SCADA – Aplicații, ISBN 978-606-560-425-4,                                   | Editura Universității Pitești                                                                                                                                                         | 2015/185 |
|  |  |  | 10                                                                                                                                                                            | C.I. Rîncu, V.G. Iana                              | Implementarea modulelor digitale cu structuri reprogramabile                                 | Editura Academiei Tehnice Militare                                                                                                                                                    | 2014/189 |
|  |  |  | 11                                                                                                                                                                            | Gabriel V. Iana                                    | Procesarea Digitala a Semnalelor – Teorie si Aplicații                                       | Editura Universitatii din Pitesti                                                                                                                                                     | 2015/139 |
|  |  |  | 12                                                                                                                                                                            | Laurențiu-Mihai Ionescu, Alin Mazăre               | Aplicații cu circuite reconfigurabile                                                        | Universității din Pitești                                                                                                                                                             | 2015/150 |
|  |  |  | 13                                                                                                                                                                            | Laurențiu-Mihai Ionescu                            | Proiectare cu sisteme in timp real                                                           | Universității din Pitești                                                                                                                                                             | 2015/150 |
|  |  |  | 14                                                                                                                                                                            | Alin-Gheorghita Mazare, Laurentiu-Mihai Ionescu    | Tehnici CAD – îndrumar de laborator                                                          | Universității din Pitești                                                                                                                                                             | 2015/200 |
|  |  |  | <b>4. Articole in publicatii cotate ISI (pentru revistele cotate ISI, Factorul de Impact – F.I – este publicat anual de către Thompson Reuters in Jornal Citation Report)</b> |                                                    |                                                                                              |                                                                                                                                                                                       |          |
|  |  |  | Nr.                                                                                                                                                                           | Autori                                             | Titlul                                                                                       | Revista                                                                                                                                                                               |          |
|  |  |  | 1                                                                                                                                                                             | N. Bizon, M. Oproescu, M. Raceanu                  | Efficient Energy Control Strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source | Energy Conversion Management 77 (15 January 2015), 768-772.<br><a href="https://doi.org/10.1016/j.enconman.2014.11.002">doi:10.1016/j.enconman.2014.11.002</a><br>WOS:000348886800010 |          |
|  |  |  | 2                                                                                                                                                                             | N. Bizon M. Radut, M. Oproescu                     | Energy control strategies for the Fuel Cell Hybrid Power Source under unknown load profile   | Energy 86 (15 June 2015) 31-41<br><a href="http://dx.doi.org/10.1016/j.energy.2015.03.118">http://dx.doi.org/10.1016/j.energy.2015.03.118</a><br>WOS:000356986300004                  |          |



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|--|----|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |    | 3                                                               | N. Bizon                                                                                                              | Global Maximum Power Point Tracking based on new Extremum Seeking Control scheme                               | Progress in Photovoltaics: Research and Applications (November 2015) DOI: 10.1002/pip.2700; <a href="http://onlinelibrary.wiley.com/doi/10.1002/pip.2700/full">http://onlinelibrary.wiley.com/doi/10.1002/pip.2700/full</a> |
|  | 5. | Articole in publicatii cotate +B /B – CNCISIS (A, B, C – CNCIS) |                                                                                                                       |                                                                                                                |                                                                                                                                                                                                                             |
|  |    | Nr.                                                             | Autori                                                                                                                | Titlul                                                                                                         | Revista                                                                                                                                                                                                                     |
|  |    | 1                                                               | M. Răceanu, N. Bizon, M. Iliescu, M. Culcer, A. Marinoiu, L Pătularu, D. Schitea, M. Varlam, Mihai; Ștefănescu, Ioan; | Performanța Pilei de Combustibil de tip PEM utilizând diferite Moduri de Alimentare cu Hidrogen                | Conferința “Știința modernă și energia”, ClujNapoca, mai 2015, Ed. Risoprint, ISSN 2066-4125.; XXXIV/ISSN 2066-4125/ ISSN-L 2066-4125/2015:05/ Cluj-Napoca; 73 – 88.                                                        |
|  |    | 2                                                               | Ene Alexandru                                                                                                         | A JAVA APPLICATION FOR BUILDING ADAPTIVE VOCABULARY LEARNING COMPUTER TESTS                                    | Bul. St. FECC, pg. 9-12                                                                                                                                                                                                     |
|  |    | 3                                                               | Ene Alexandru                                                                                                         | A JAVA CLIENT SERVER APPLICATION FOR BUILDING BALANCED GROUPS                                                  | Bul. St. FECC, pg. 13-16                                                                                                                                                                                                    |
|  |    | 4                                                               | Emilian LEFTER , Bogdan-Adrian ENACHE , Ionuț Bogdan MARIA , Cătălin GOIA                                             | Hybridization Of Trolleybuses – Means For Increasing The Transports Flexibility And Reduction Of The Pollution | U.P.B. Sci. Bull., Series C, Vol. 77, Iss. 3, 2015 ISSN 2286-3540                                                                                                                                                           |
|  |    | 5                                                               | Bogdan-Adrian Enache, Luminita-Mirela Constantinescu, Florin-Marian Birleanu                                          | State-of-charge estimation of a LiFePO4 battery using an adaptive observer                                     | University of Pitesti Scientific Bulletin. Series: Electronics and Computer Science, pISSN: 2344-2158, eISSN 2344-2166, vol. 15, no. 2, December 2015, pp. 19-24                                                            |
|  |    | 6                                                               | Valeriu Manuel Ionescu, Dumitru Cazacu                                                                                | Virtualization impact on COMSOL processor detection                                                            | Nr 2/2015, University of Pitesti Scientific Bulletin, Series: Electronics and Computers Science Indexare Copernicus                                                                                                         |
|  |    | 7                                                               | Enescu Florentina Magda , Știrbu Cosmin, Liță Adrian Ioan                                                             | Image search algorithms - Visual processing and query databases after the color descriptor                     |                                                                                                                                                                                                                             |



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|  |  |  | 8                                                                    | Enescu Florentina<br>Magda, Liță Adrian Ioan                      | Multimedia data management<br>by object – oriented semantic<br>tool                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                   |
|  |  |  | 9                                                                    | Silviu Ionita, Gabriel<br>Iana, Sandel Zaharia,<br>Cristian Monea | An agent-based communications<br>model for emergency scenarios<br>deployment in case of disasters<br>and temporary events                                                                                                                                                                                                   | Revista TELECOMUNICATII, an LVII, nr. 2/2014, ISSN 2247-<br>1863                                                                                                                                                                  |
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|  |  | 6 | Gabriel Iana, Petre Anghelescu                                                                                                             | Vibration monitoring system for human activity detection                                                                                                                                                                                                                                                                                    | IEEEExplore, Scopus, ISI WoS (in curs de indexare) |
|  |  | 7 | Cristian Barca, Dan Claudiu Barca, Constantin Mara, Petre Anghelescu, Bogdan Gavriloiu, Radu Vizireanu, Razvan Craciunescu, Octavian Fratu | Improving Storage Capacity by Distributed Exact Deduplication Systems                                                                                                                                                                                                                                                                       | IEEEExplore, Scopus, ISI WoS (in curs de indexare) |
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|----|---------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                           | 9      | Bogdan Adrian Enache, Magdalena Emilia Alexandru, Luminita Mirela Constantinescu | A LiFePO4 Battery Discharge Simulator for EV Applications–Part 1: Determining the Optimal Circuit Based Battery Model                                                                  | Web of Science<br>THE 9th INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING, May 7-9, 2015<br>Bucharest, Romania, 978-1-4799-7514-3/15/IEEE, Page(s): 877-882, DOI:10.1109/ATEE.2015.7133925 |
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|    | Nr.                                                                       | Autori | Titlul                                                                           |                                                                                                                                                                                        | Baza date                                                                                                                                                                                                       |



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|--|--|----|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | 14 | Cristian BARCA, Dan Claudiu BARCA, Constantin MARA, Marian RADUCU, Bogdan GAVRILOAIA, Radu VIZIREANU, Razvan CRACIUNESCU, Simona HALUNGA | Privacy profiling impact of Android mobile applications                                                                                                                                   | IEEEExplore, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, pp. C5-C10, București, Vol. 7 – No. 1/ 2015 ISBN – 978-1-4673-6646-5 |
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|  |  | 18 |                                                                                                                                          |                                                                                                                                                                                           |                                                                                                                                                                             |
|  |  | 19 | R.Beloiu                                                                                                                                 | Teaching electric motors' starting methods in Lifelong Learning Programs<br>Pages: WE-11 - WE-14,<br>DOI: <a href="https://doi.org/10.1109/ECAL2015.7301223">10.1109/ECAL2015.7301223</a> | IEEE, ECAI 2015                                                                                                                                                             |
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|  |  | 22 | Savulescu Corina, Zdzislaw Polkowski, Albu Iulian Alexandru                                                                              | The Online and Computer Aided Assessment                                                                                                                                                  | IEEE Xplore, ECAI 2015                                                                                                                                                      |



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|--|--|----|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | 28 | Valeriu Manuel IONESCU                                 | The analysis of the performance of RabbitMQ and ActiveMQ, 2015 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), September 24- 26, 2015, Craiova, ISBN 978-1-4673-8179-6, PG. 132-137                                                                                                                            | Index: IEEE                                                                                                                                                  |
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|  |  | 30 | C.Stoica, D.Cazacu, L.Melcescu                         | <u>3D numerical modeling with FEM operation under load on the alternator claw poles. Electronics, Computers and Artificial Intelligence (ECAI), 2015 7th International Conference on Year: 25 27 june ,2015 Pages: P-75 - P-80, DOI: <a href="https://doi.org/10.1109/ECAI.2015.7301256">10.1109/ECAI.2015.7301256</a> IEEE Conference Publications.</u> | IEEE Xplore                                                                                                                                                  |
|  |  | 31 | Iana Vasile Gabriel, Petre Anghelescu                  | Vibration monitoring system for human activity detection                                                                                                                                                                                                                                                                                                 | The 7th International Conference on Electronics, Computers and artificial Intelligence, Vol. 2, No. 32014, ISSN-1843-2115, IEEE Catalog number: CFP1427U-PRT |
|  |  | 32 | Petre Anghelescu, Gabriel Vasile Iana, Ionut Tramandan | HUMAN FOOTSTEP DETECTION USING SEISMIC SENSORS                                                                                                                                                                                                                                                                                                           | The 7th International Conference on Electronics, Computers and artificial Intelligence, Vol. 2, No. 32014, ISSN-1843-2115, IEEE Catalog number: CFP1427U-PRT |



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|--|--|----|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|  |  | 33 | N Diga, C Ghita, C Stoica, SM Diga                                                                                                                      | Particular aspects of the cogging torque reduction for permanent magnet synchronous motors using specialized software | Electronics, Computers and Artificial Intelligence (ECAI), 2015 7th ...                                                                  |                                                                                                                                                                        |                                                                 |
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|  |  | 91 | C Anton, L Ionescu, I Tutanescu, A Mazare, G Serban<br>FPGA-implemented CRC algorithm                                                                                                                                                                                                                                                                                                 | J Rico, J Sancho, A Díaz, J González<br>Low Power Wireless Sensor Networks: Secure Applications and Remote Distribution of FW Updates with Key Management on WSN                                                                                                                             |
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|--|--|--|--------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| 14. | Grant sau contract de cercetare științifică internațional cu parteneri multipli, la care Univ. din Pitești are calitate de promotor - membru în echipă)                                                                    |                                                                                                                                                          |            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| 15. | Grant sau contract de cercetare științifică național cu parteneri multipli, la care Univ. din Pitești are calitate de promotor - Director (responsabil)                                                                    |                                                                                                                                                          |            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| 16. | grant sau contract de cercetare științifică național cu parteneri multipli, la care Univ. din Pitești are calitate de promotor - membru în echipă)                                                                         |                                                                                                                                                          |            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|     | 1                                                                                                                                                                                                                          |                                                                                                                                                          |            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 17. | Director (responsabil) de grant, (inclusiv în granturile cu parteneri multipli) sau contract de cercetare științifică cu valoarea unitară care revine Universității din Pitești, (conform devizului in perioada referită). |                                                                                                                                                          |            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     | Nr.                                                                                                                                                                                                                        | Denumire contract                                                                                                                                        | Finanțator |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     | 1                                                                                                                                                                                                                          | Transfer de Inovatie Leonardo da Vinci 2013-1-ES1-LEO01-66485<br>One teacher and one student working with ProjectX,<br>Total 370.553 €/ Pitesti 38.547 € | UE         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



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|--|--|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | 2          | Cooperation for Innovation and the exchange of good practices<br>2015-1-TR01-KA203-021342<br>INNOVATIVE EUROPEAN STUDIES ON RENEWABLE ENERGY<br>SYSTEMS, Total 207.788 € / Pitesti 33.713 €                 | UE                                                                                                                                                                |
|  |  | <b>18.</b> | <b>Colaborator la grant / contract de cercetare științifică<br/>(conform anexei 3.1)</b>                                                                                                                    |                                                                                                                                                                   |
|  |  | Nr.        | Denumire grant/contract                                                                                                                                                                                     | Director/responsabil                                                                                                                                              |
|  |  | 1          | Transfer de Inovatie Leonardo da Vinci <b>2013-1-ES1-LEO01-66485</b><br>One teacher and one student working with ProjectX, R. Beloiu                                                                        | Robert Beloiu                                                                                                                                                     |
|  |  | 2          | Transfer de Inovatie Leonardo da Vinci <b>2013-1-ES1-LEO01-66485</b><br>One teacher and one student working with ProjectX, N. Bizon                                                                         | Robert Beloiu                                                                                                                                                     |
|  |  | 3          | Transfer de Inovatie Leonardo da Vinci <b>2013-1-ES1-LEO01-66485</b><br>One teacher and one student working with ProjectX, I. Bostan                                                                        | Robert Beloiu                                                                                                                                                     |
|  |  | 4          | Transfer de Inovatie Leonardo da Vinci <b>2013-1-ES1-LEO01-66485</b><br>One teacher and one student working with ProjectX, L.M. Constantinescu                                                              | Robert Beloiu                                                                                                                                                     |
|  |  | 5          | Transfer de Inovatie Leonardo da Vinci <b>2013-1-ES1-LEO01-66485</b><br>One teacher and one student working with ProjectX, M. Iorgulescu                                                                    | Robert Beloiu                                                                                                                                                     |
|  |  | <b>19.</b> | <b>Depunerea unui proiect de cercetare științifică internațional eligibil, nefinanțat</b>                                                                                                                   |                                                                                                                                                                   |
|  |  | Nr.        | Denumire contract                                                                                                                                                                                           | Finanțator                                                                                                                                                        |
|  |  | 1          | Innovative Solutions for Electric-Pneumatic L-Category Vehicle Concept<br>H2020-GV                                                                                                                          | H2020-GV                                                                                                                                                          |
|  |  | 2          | Immersive learning environment for current and future workforce<br><i>Submitted as a project proposal within the Technologies for better human learning and teaching ICT-20-2015</i><br>Plant2Learn Project | UE                                                                                                                                                                |
|  |  | 3          | Transnational Education Recognition - National Approaches (TER-NA)<br>under the Erasmus+ programme                                                                                                          | UE                                                                                                                                                                |
|  |  | <b>20</b>  | <b>Depunerea unui proiect de cercetare științifică național eligibil, nefinanțat</b>                                                                                                                        |                                                                                                                                                                   |
|  |  | Nr.        | Denumire contract                                                                                                                                                                                           | Finanțator                                                                                                                                                        |
|  |  | 1          |                                                                                                                                                                                                             |                                                                                                                                                                   |
|  |  | <b>21.</b> | <b>Brevet omologat</b>                                                                                                                                                                                      |                                                                                                                                                                   |
|  |  | Nr.        | Autori                                                                                                                                                                                                      | Titlul                                                                                                                                                            |
|  |  | 1          | N. Bizon, G. Iana, M. Oproescu                                                                                                                                                                              | Device and method for searching the extremes of power photovoltaic panels (Dispozitiv și metodă de căutare a extremelor de putere pentru panourile fotovoltaice), |
|  |  |            |                                                                                                                                                                                                             | Anul<br>cerere depusa in februarie 2015                                                                                                                           |



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**Director D. E. C. IE,**

**Prof. dr. ing. Gheorghe Șerban**

**Întocmit,**

**Ș.l.dr.ing. Luminița Mirela Constantinescu**