

Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare - COMISIA DE INGINERIE

ELECTRICĂ

| Nr. Crt | Domeniul activităților | Tipul activităților | Categoriile și restricții | Subcategoriile | Indicatori (kpi) | Număr | Punctaj | | | |
|--|--|--|--|-----------------------------|--|--|------------------------|----------------------|-------|------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | |
| 1 | Activitatea didactică și profesională (A1) | 1.1 Cărți și capitole în cărți de specialitate | 1.1.1 Cărți cu ISBN/capitole ca autor: Profesor univ. minimum 4; Conferențiar univ./CS I minimum 2; CS II minimum 1 | 1.1.1.1 internaționale | nr. pagini/ (2*nr. autori) | 4 | 24 | | | |
| | | | | 1.1.1.2 naționale | nr. pagini/ (5*nr. autori) | 2 | 17.8 | | | |
| | | | 1.1.2 Cărți/capitole de cărți ca editor/coordonator | 1.1.2.1 internaționale | nr. pagini/ (3*nr. autori) | 1 | 33 | | | |
| | | | | 1.1.2.2 naționale | nr. pagini/ (7*nr. autori) | 0 | 0 | | | |
| | | 1.2 Suport didactic | 1.2.1 Suport de curs, inclusiv electronic: Profesor univ. minimum 2 din care 1, ca prim autor; Conferențiar univ. minimum 1; CS I și CS II fără restricții | nr. pagini/ (10*nr. autori) | 2 | 66 | | | | |
| | | | 1.2.2 Îndrumare de laborator/aplicații: Profesor univ. minimum 2, din care minimum 1, ca prim-autor; Conferențiar univ. minimum 1; CS I și CS II fără restricții | nr. pagini/ (20*nr. autori) | 2 | 3 | | | | |
| 1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS ș.a.) | Punctaj unic pentru fiecare activitate | 10 | 0 | 0 | | | | | | |
| 2 | Activitatea de cercetare științifică (A2) | 2.1 Articole in extenso în reviste cotate WOS Thomson-Reuters ¹ , în volume proceedings indexate WOS Thomson-Reuters și brevete de invenție indexate WOS-Derwent | 2.1.1 Profesor univ. / CS I: minimum 10 articole, din care minimum 4, ca prim autor și minimum 4, în reviste | | (25 + 20 * factor impact ²)/ nr. de autori | 60 | 589.2 | | | |
| | | | | | | 0 | 0.0 | | | |
| | | 2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI ³) | 2.2.1 Profesor univ. / CS I: minimum 20 articole, din care minimum 5, în reviste | | 20/nr. de autori | 21 | 107.5 | | | |
| | | | | | | 0 | 0.0 | | | |
| | | 2.3 Brevete de invenție indexate în alte baze de date | | | | 2.3.1 internaționale | 25/nr. de autori | 0 | 0.0 | |
| | | | | | | 2.3.2 naționale | 15/nr. de autori | 4 | 37.5 | |
| | | 2.4 Granturi/proiecte câștigate prin competiție națională/ internațională * | 2.4.1 Director/Responsabil proiect partener: minimum 2 pentru Profesor/CS I; minimum 1 pentru Conferențiar univ./CS II | | | 2.4.1.1 internaționale | 20*ani de desfășurare | 0 | 0.0 | |
| | | | | | | 2.4.1.2 naționale | 10*ani de desfășurare | 2 | 40.0 | |
| | | | 2.4.2 Membru în echipă | | | | 2.4.2.1 internaționale | 4*ani de desfășurare | 5 | 56.0 |
| | | | | | | | 2.4.2.2 naționale | 2*ani de desfășurare | 15 | 72.0 |
| 2.5 Contracte de cercetare/consultanță (valoarea echivalentă de minimum 2 000 Euro) | 2.5.1 Director/ Responsabil proiect partener | | | | 5*ani de desfășurare | 0 | 0.0 | | | |
| | | | | | 2.5.2 Membru în echipă | 2*ani de desfășurare | 3 | 6.0 | | |
| 3 | Recunoașterea și impactul activității (A3) | 3.1 Citări în revistele WOS și volumele conferințelor WOS ** | 3.1.1 Profesor univ./ CS I: minimum 10 citări | | 5 / nr. autori ai articolului citat | 132 | 319.7 | | | |
| | | | | | | 0 | 0.0 | | | |
| | | 3.2 Citări în revistele BDI și volumele conferințelor BDI ** | 3.2.1 Profesor univ./ CS I: minimum 20 citări | | 3 / nr. autori ai articolului citat | 55 | 57.5 | | | |
| | | | | | | 0 | 0.0 | | | |
| | | 3.3 Prezentări invitate în plenum unor manifestări științifice naționale și internaționale și Profesor invitat | Punctaj unic pentru fiecare activitate | | | 3.3.1 internaționale | 20 | 1 | 20.0 | |
| | | | | | | 3.3.2 naționale | 5 | 0 | 0.0 | |
| | | 3.4 Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale (punctajul se acordă pentru fiecare revistă, | Punctaj unic pentru fiecare activitate | | | 3.4.1 WOS | 10 | 0 | 0.0 | |
| | | | | | | 3.4.2 BDI | 6 | 31 | 310.0 | |
| | | 3.5 Referent în comisii de doctorat | | | | 3.4.3 naționale și internaționale neindexate | 3 | 0 | 0.0 | |
| | | | | | | 3.5.1 internaționale | 10 | 0 | 0.0 | |
| | | 3.6 Premii | | | | 3.5.2 naționale | 5 | 0 | 0.0 | |
| | | | | | | Academia Română | 30 | 0 | 0.0 | |
| | | | | | | ASAS, AOSR, academii de ramură și CNCS | 15 | 0 | 0.0 | |
| | | | | | | Premii internaționale | 10 | 0 | 0.0 | |
| | | 3.7 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării științifice | | | | Premii naționale în domeniu | 5 | 21 | 310.0 | |
| | | | | | | 3.7.1 Academia Română | 100 | 0 | 0.0 | |
| 3.7.2 ASAS, AOSR și academii de ramură | 30 | | | | | 0 | 0.0 | | | |
| 3.7.3 Conducere asociații profesionale | internaționale | | | | | 30 | 0 | 0.0 | | |
| | naționale | | | | | 10 | 0 | 0.0 | | |
| 3.7.4 Asociații profesionale | internaționale | | | | | 5 | 0 | 0.0 | | |
| | naționale | 2 | 2 | 10.0 | | | | | | |
| 3.7.5 Consilii și organizații în domeniul educației și cercetării științifice | | | | internaționale | 15 | 0 | 0.0 | | | |
| | | | | naționale | 10 | 0 | 0.0 | | | |
| TOTAL | | | | | | 2079.8 | | | | |

¹ Conform situației curente de pe site-ul WOS (Web of Science) THOMSON REUTERS; o revistă cotate WOS este echivalentă cu o revistă cotate ISI, conform Ordinului MECS Nr. 4478/ 23 iunie 2011, publicat în Monitorul Oficial, Partea I, Nr. 448/ 27 iunie 2011;

² Factorul de impact al revistei menționat pe site-ul WOS în anul curent; pentru articolele în proceedings WOS și pentru brevetele indexate WOS-Derwent factorul de impact considerat

³ Bazele de date internaționale (BDI) luate în considerare pentru articolele publicate în reviste și în volumele unor manifestări științifice, cu excepția articolelor publicate în reviste/proceedings cotate WOS, sunt cele recunoscute pe plan științific internațional: Scopus, IEEE Xplore, Elsevier Science Direct, Engineering Village, Compendex, INSPEC, Springerlink, Cabi, EBSCO, CSA ILLUMINA/PROQUEST, Index Copernicus și Ulrich's;

* Nu se consideră în această categorie proiectele/ granturile de tip POSDRU (POCU), POSCCE (POC), ERASMUS (ERASMUS PLUS), COMENIUS, bursele postdoctorale și alte tipuri de proiecte similare care nu prezintă un caracter predominant de cercetare; se consideră numai proiectele/granturile relevante pentru profilul postului scos la concurs/domeniul de

** Autocitățile sunt excluse (se consideră autocitare existența unui autor/coautor comun între lucrarea citată și lucrarea care citează).

| | Punctaj realizat |
|--|------------------|
| Activitatea didactică și profesională (A1) | 144.46 |
| Activitatea de cercetare științifică (A2) | 908.146 |
| Recunoașterea și impactul activității (A3) | 1027.179 |
| TOTAL | 2079.782 |
| SCOR | 6.933 |

Cluj Napoca
05.01.2022

SI.Dr.Ing.Mircea Ruba

ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ (A1)

Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare - COMISIA DE INGINERIE ELECTRICĂ

(conform Ordinului MENCS nr. 6129 din 20 decembrie 2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare / Anexa Nr. 9)

| Nr. Crt | Domeniul activităților | Tipul activităților | Categoriile și restricțiile | Indicatorii (kpi) | Număr | Punctaj |
|--|--|--|--|----------------------------|----------------------------|---------------|
| 1 | Activitatea didactică și profesională (A1) | 1.1 Cărți și capitole în cărți de specialitate | 1.1.1 Cărți cu ISBN/ capitole de cărți, ca autor: Profesor univ. minimum 4; Conferențiar univ./CS I minimum 2; CS II minimum 1 | 1.1.1.1 internaționale | nr. pagini/ (2*nr. Autori) | 24 |
| | | | | 1.1.1.2 naționale | nr. pagini/ (5*nr. Autori) | 2 |
| | | 1.2 Cărți/ capitole de cărți ca editor/coordonator | 1.1.2.1 internaționale | nr. pagini/ (3*nr. Autori) | 1 | 33 |
| | | | 1.1.2.2 naționale | nr. pagini/ (7*nr. Autori) | | |
| 1.2 Suport didactic | 1.2.1 Suport de curs, inclusiv electronic: Profesor univ. minimum 2, din care 1, ca prim autor; Conferențiar univ. minimum 1; CS I și CS II fără restricții | nr. pagini/ (10*nr. autori) | 2 | 66.10 | | |
| | 1.2.2 Îndrumare de laborator aplicații: Profesor univ. minimum 2, din care minimum 1, ca prim-autor; Conferențiar univ. minimum 1; CS I și CS II fără restricții | nr. pagini/ (20*nr. autori) | 2 | 2.975 | | |
| 1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS ș.a.) | | Punctaj unic pentru fiecare activitate | | 10.000 | | |
| TOTAL A1 | | | | | | 144.46 |

1.1. Cărți și capitole în cărți de specialitate

1.1.1.2 Cărți naționale

| Nr. | Autori | Titlu carte / capitol carte | Editura | ISBN | An apariție | Număr pagini | Număr autori | Punctaj |
|-----|---|--|--------------------|-------------------|-------------|--------------|--------------|-----------|
| 1 | Claudia Martis, Horia Hedesiu, Florin Jurca, Claudiu Oprea, Mircea Ruba | INTRODUCERE ÎN SISTEME ELECTROMECHANICE | Editura Alma Mater | 978-606-504-136-3 | 2012 | 240 | 5 | 10 |
| 2 | Daniel Fodorean, Florin Nicolae Jurca, Mircea Ruba, Dan-Cristian Pope | MOTORIZATION VARIANTS FOR LIGHT ELECTRIC VEHICLES - Design, Magnetic, Mechanical and Thermal Aspects | Editura Alma Mater | 978-606-504-160-8 | 2013 | 164 | 4 | 8 |
| | | | | | | | TOTAL | 18 |

1.1.1.1 Capitole de carte internaționale

| | | | | | | | | |
|---|---|---|--------|-------------------------------|------|----|--------------|-----------|
| 1 | Mircea Ruba, Raul Nemes, Sorina Ciomei and Claudia Martis | APPLIED ELECTROMECHANICAL DEVICES AND MACHINES FOR ELECTRIC MOBILITY SOLUTIONS/ Chapter 3- Parameter Identification, Modeling and Testing of Li-Ion Batteries Used in Electric Vehicles | INTECH | 978-1-78985-728-3 | 2020 | 19 | 4 | 2.4 |
| 2 | Florin-Nicolae Jurca and Mircea Ruba | Hybrid Electric Vehicles / Chapter 5 - Performance Analysis of an Integrated Starter-Alternator- Booster for Hybrid Electric Vehicles | INTECH | 978-953-51-3298-1 | 2017 | 19 | 2 | 4.8 |
| 3 | Mircea Ruba and Petre Dorel Teodorescu | Switched Reluctance Motor - Concept, Control and Applications / Chapter 4 - Design, Power Electronics and Torque Control of Switched Reluctance Machines | INTECH | 978-953-51-3268-4 | 2017 | 19 | 2 | 4.8 |
| 4 | Raul Octavian Nemes, Mircea Ruba, Sorina Maria Ciomei and Raluca Maria Raia | NEW PERSPECTIVES ON ELECTRIC VEHICLES/ Chapter - Powerful Multilevel Simulation Tool for HiL Analysis of Urban Electric vehicle's Propulsion Systems | INTECH | DOI: 10.5772/intechopen.98532 | 2021 | 19 | 4 | 2.4 |
| 5 | Mircea Ruba | Fault Diagnosis and Detection / Chapter 8 - Fault-Tolerant Electrical Machines and Drives | INTECH | 978-953-51-3204-2 | 2017 | 20 | 1 | 10.0 |
| | | | | | | | TOTAL | 24 |

1.1.2.1 Editor cărți internaționale

| | | | | | | | | |
|---|------------------------------|--|--------|-------------------|------|-----|--------------|-------------|
| 1 | Mircea Ruba & Adel El-Shahat | APPLIED ELECTROMECHANICAL DEVICES AND MACHINES FOR ELECTRIC MOBILITY SOLUTIONS | INTECH | 978-1-78985-728-3 | 2020 | 200 | 2 | 33.3 |
| | | | | | | | TOTAL | 33.3 |

1.2 Suport didactic

1.2.1 Suport de curs inclusiv electronic

| Nr. | Autori | Titlu curs | Editura/ Atelier multiplicare | Dovadă alternativă (pentru suport didactic în format electronic) | An apariție | Număr pagini | Număr autori | Punctaj |
|-----|-------------|--|-------------------------------|--|-------------|--------------|--------------|-------------|
| 1 | Mircea Ruba | CURS-Integrare de Sistem | | Curs | 2019 | 367 | 1 | 37 |
| 2 | Mircea Ruba | CURS-Modelarea, Simularea și Testarea Sistemelor Electromecanice | | CursMaster | 2019 | 294 | 1 | 29 |
| | | | | | | | TOTAL | 66.1 |

1.2.2 Îndrumare de laborator/aplicații

| Nr. | Autori | Îndrumar laborator | Editura/ Atelier multiplicare | Dovadă | An apariție | Număr pagini | Număr autori | Punctaj |
|-----|--|---|-------------------------------|------------------------|-------------|--------------|--------------|------------|
| 1 | Mircea Ruba, Raul-Octavian Nemes, Eduard-Edis Răclău, Călin-Ioan Husar | Analiza prin modelare în mediul Simcenter Amesim, sistemelor electromecanice. Îndrumar de laborator | UTPRESS | ISBN 978-606-737-513-8 | 2021 | 51 | 4 | 1 |
| 2 | Raul-Octavian Nemes, Mircea Ruba, Călin-Ioan Husar | Reprezentarea Macroscopic - Energetică a sistemelor integrate. Aplicații practice | UTPRESS | ISBN 978-606-737-514-5 | 2021 | 51 | 3 | 2 |
| | | | | | | | TOTAL | 3.0 |

1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS ș.a.)

| Nr. | Autori | Denumire program / proiect | Dovada | Punctaj |
|------|--------|----------------------------|--------|--------------|
| A1.3 | | | | |
| | | | | Total |

ACTIVITATEA DE CERCETARE ȘTIINȚIFICĂ (A2)

Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare - COMISIA DE INGINERIE ELECTRICA

(conform Ordinului MENCS nr. 6129 din 20 decembrie 2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare / Anexa Nr. 9)

| Nr. Crt | Domeniul activitatilor | Tipul activitatilor | Categoriile si restrictiile | Subcategoriile | Indicatori (kpi) | Numar | Punctaj | | |
|-----------------|---|---|--|----------------------|---|------------------------|-----------------------|----|----|
| 2 | Activitatea de cercetare științifică (A2) | 2.1 Articole in extenso în reviste cotate WOS Thomson-Reuters ¹ , în volume proceedings indexate WOS Thomson-Reuters și brevete de invenție indexate WOS-Derwent | 2.1.1 Profesor univ. / CS I: minimum 10 articole, din care minimum 4, ca prim autor și minimum 4, în reviste | | (25 + 20 * factor impact ²) / nr. de autori | 60 | 589.16 | | |
| | | | 2.1.2 Conferențiar univ. / CS II: minimum 7 articole, din care minimum 2, ca prim autor și minimum 2, în reviste | | | | | | |
| | | 2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI ³) | 2.2.1 Profesor univ. / CS I: minimum 20 articole, din care minimum 5, în reviste | | 20/nr. de autori | 21 | 107.485 | | |
| | | | 2.2.2 Conferențiar univ. / CS II: minimum 15 articole, din care minimum 2, în reviste | | | | | | |
| | | 2.3 Brevete de invenție indexate în alte baze de date | | | | 2.3.1 internaționale | 25/nr. de autori | | |
| | | | | | | 2.3.2 naționale | 15/nr. de autori | 4 | 38 |
| | | 2.4 Granturi/proiecte câștigate prin competiție națională/internațională * | | | | 2.4.1.1 internaționale | 20*ani de desfășurare | | |
| | | | | | | 2.4.1.2 naționale | 10*ani de desfășurare | 2 | 40 |
| | | 2.5 Contracte de cercetare/consultanță (valoarea echivalentă de minimum 2 000 Euro) | | | | 2.4.2.1 internaționale | 4*ani de desfășurare | 5 | 56 |
| | | | | | | 2.4.2.2 naționale | 2*ani de desfășurare | 15 | 72 |
| | | | 2.5.1 Director/ Responsabil proiect partener | 5*ani de desfășurare | | | | | |
| | | | 2.5.2 Membru în echipă | 2*ani de desfășurare | 3 | 6 | | | |
| TOTAL A2 | | | | | | 908.146 | | | |

| 2.1 Articole in extenso în reviste cotate WOS Thomson-Reuters ¹ , în volume proceedings indexate WOS Thomson-Reuters și brevete de invenție indexate WOS-Derwent | | | | | | |
|---|--|--|------------------|------------|---------|-------------|
| Nr. | Autori | Titlu lucrare, revistă / volum proceedings/ brevet, pagini | Factor de impact | Nr. Autori | Punctaj | Incarare |
| 1 | Ruba, Mircea; Nemes, Raul Octavian; Ciornel, Sorina Maria; Claudia Martis | Simple and Robust Current Sensor Fault Detection and Compensation Method for 3-Phase Inverters, IEEE ACCESS, ISSN: 2169-3536 Volume: 8 Pages: 34820-34832 Published: 2020 | 3.37 | 4 | 23.09 | REVISTA ISI |
| | M. R. Rala, M. Ruba, R. O. Nemes, C. Martis | Artificial Neural Network and Data Dimensionality Reduction Based on Machine Learning Methods for PMSM Model Order Reduction, In IEEE Access, vol. 9, pp. 102345-102354, 2021, doi: 10.1109/ACCESS.2021.3095668 | 3.37 | 4 | 23.10 | |
| 2 | Ruba, Mircea; Viorel, Ioan-Adrian; Szabo, Lorand | Modular stator switched reluctance motor for fault tolerant drive systems, IET ELECTRIC POWER APPLICATIONS Volume: 7 Issue: 3 Pages: 159-169 Published: MAR 2013 | 2.57 | 4 | 19.09 | |
| 3 | Ruba, Mircea; Fodorean, Daniel | Analysis of Fault-Tolerant Multiphase Power Converter for a Nine-Phase Permanent Magnet Synchronous Machine, IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 48 Issue: 6 Special Issue: SI Pages: 2092-2101 Published: NOV-DEC 2012 | 3.65 | 2 | 49.00 | |
| 4 | Szabo, Lorand; Ruba, Mircea; Szasz, Csaba; et al. | Fault Tolerant Bio-Inspired System Controlled Modular Switched Reluctance Machine, AUTOMATIKA Volume: 55 Issue: 1 Pages: 53-63 Published: JAN-MAR 2014 | 0.60 | 5 | 7.40 | |
| 5 | Szabo, Lorand; Ruba, Mircea | Segmental Stator Switched Reluctance Machine for Safety-Critical Applications, IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 48 Issue: 6 Special Issue: SI Pages: 2223-2229 Published: NOV-DEC 2012 | 3.65 | 2 | 49.00 | |
| 6 | Fodorean, D.; Popa, D. C.; Ruba, M. | On the Fault-Tolerance of Permanent Magnet Synchronous Machines and Drives Used in Hybrid Vehicle Application, INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IEEE Volume: 7 Issue: 2 Pages: 3795-3803 Part: A Published: MAR-APR 2012 | 1.36 | 3 | 17.40 | |
| 7 | Nemes, Raul-Octavian; Ciornel, Sorina-Maria; Ruba, Mircea; et al. | Real-time simulation of scaled propulsion unit for light electric vehicles, ELECTRICAL ENGINEERING Volume: 102 Issue: 1 Special Issue: SI Pages: 43-52 Published: MAR 2020 | 1.12 | 4 | 11.85 | |
| 8 | Ruba, M.; Radulescu, M. M. | Analysis of a grid-connected wind energy conversion system based on complex simulation program, 10th International Conference on Ecological Vehicles and Renewable Energies (EVER) Location: Monte Carlo, MONACO Date: MAR 31-APR 02, 2015 Sponsor(s): IEEE 2015 TENTH INTERNATIONAL CONFERENCE ON ECOLOGICAL VEHICLES AND RENEWABLE ENERGIES (EVER) Published: 2015 | 0.00 | 2 | 12.50 | |
| 9 | Ruba, M.; Jurca, F.; Martis, C.; et al. | Analysis of Maximum Torque per Ampere Control Strategy for Variable Reluctance Synchronous Machines for Traction Applications, Conference: 8th International Conference And Exposition On Electrical And Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 15-18, 2014 Sponsor(s): Gheorghe Asachi Tech Univ Iasi, Fac Elect Engn; IEEE Romania Sect; Grad Assoc, Fac Elect Engn Iasi 2014 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 322-326 Published: 2014 | 0.00 | 5 | 5.00 | |
| 10 | Ruba, M.; Chindris, V.; Fodorean, D. | Design and experimental validation of a low voltage high current SRM for light electric vehicles, Conference: International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) Location: ITALY Date: JUN 18-20, 2014 2014 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION (SPEEDAM) Pages: 118-123 Published: 2014 | 0.00 | 3 | 8.33 | |
| 11 | Ruba, M.; Fodorean, D. | Design, analysis and torque control of low voltage high current SRM for small automotive applications, Conference: IEEE EUROCON Conference Location: Zagreb, CROATIA Date: JUL 01-04, 2013 Sponsor(s): IEEE; IEEE Croatia Sect; IEEE Reg 8; FER 2013 IEEE EUROCON Pages: 1492-1497 Published: 2013 | 0.00 | 2 | 12.50 | |
| 12 | Ruba, M.; Bentia, I.; Szabo, L. | Novel Modular Fault Tolerant Switched Reluctance Machine for Reliable Factory Automation Systems, Conference: IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Location: Cluj Napoca, ROMANIA Date: MAY 28-30, 2010 Sponsor(s): IEEE PROCEEDINGS OF 2010 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2010), VOLS. 1-3 Book Series: IEEE International Conference on Automation Quality and Testing Robotics Published: 2010 | 0.00 | 3 | 8.33 | |
| 13 | Ruba, M.; Oprea, C.; Szabo, L. | Comparative Study on Switched Reluctance Machine Based Fault-Tolerant Electrical Drive Systems, Conference: IEEE International Electric Machines and Drives Conference (IEMDC 2009) Location: Miami, FL Date: MAY 03-06, 2009 Sponsor(s): IEEE Power & Energy Soc (PES); IEEE Ind Appl Soc; IEEE Ind Elect Soc; IEEE Miami Sect; ABB; MagneForce Software Syst; Ansoft, LLC; Infolytica Corp; POWERSYS; Bakker Magnet; MotorSolver; Magsoft Corp; Cobham Tech Services; Vector Fields Software; Elect Concepts; Tera Anal Ltd; Discovery Technol Int; Copper Dev Assoc; Florida Int Univ; Inst Engn & Technol 2009 IEEE INTERNATIONAL ELECTRIC MACHINES & DRIVES CONFERENCE, VOLS 1-3 Pages: 981-986 Published: 2009 | 0.00 | 3 | 8.33 | |
| 14 | Ruba, Mircea; Ciornel, Sorina; Nemes, Raul; Claudia Martis | Detailed Design of Second Order Model of Lithium-Ion Battery Simulator Based on Experimental Measurements, Conference: 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Bucharest, ROMANIA Date: MAR 28-30, 2019 2019 11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Book Series: International Symposium on Advanced Topics in Electrical Engineering Published: 2019 | 0.00 | 4 | 6.25 | |
| 15 | Ruba, Mircea; Jurca, Florin; Czumbil, Levente; Micu D.D, Claudia Martis, Polycarpou, Alexis, Rizzo, Renato | Synchronous reluctance machine geometry optimisation through a genetic algorithm based technique, IET ELECTRIC POWER APPLICATIONS Volume: 12 Issue: 3 Pages: 431-438 DOI: 10.1049/iet-epa.2017.0455 Published: MAR 2018 | 2.92 | 7 | 11.91 | |

| | | | | | |
|----|--|--|------|---|-------|
| 16 | Ruba, Mircea; Nemes, Raul; Piglesan, Florin Pop; Claudia Martis, Horia Hedesiu | Complete electric power steering system real-time model in the loop simulator, Conference: 12th International Conference on Elektro Location: Mikulov, CZECH REPUBLIC Date: MAY 21-23, 2018 Sponsor(s): Univ Zilina, Fac Elect Engrg; IEEE Reg 9; IEEE Czechoslovakia Sect 12TH INTERNATIONAL CONFERENCE ELEKTRO 2018 Published: 2018 | 0.00 | 5 | 5.00 |
| 17 | Ruba, Mircea; Piglesan, Florin Pop; Nemes, Raul; Claudia Martis, Horia Hedesiu | Comparison of electric power steering assistant motor structures using real-time model in the loop analysis, 21st IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR THETA) Location: Cluj Napoca, ROMANIA Date: MAY 24-26, 2018 | 0.00 | 5 | 5.00 |
| 18 | Ruba, Mircea; Ciornei, Sorina; Hedesiu, Horia, Claudia Martis | Complete FPGA Based Real-Time Motor Drive Simulator With Bidirectional Battery And Ultracapacitor Power Supply, Conference: 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Bucharest, ROMANIA Date: MAR 23-25, 2017 Sponsor(s): Univ Politehnica Bucharest, Fac Elect Engrg; IEEE | 0.00 | 4 | 6.25 |
| 19 | Ruba, Mircea; Nemes, Raul; Martis, Claudia | FPGA based real-time electric power assisted steering motor-drive simulator designed for HiL testing in the automotive industry, IEEE Vehicle Power and Propulsion Conference (VPPC) Location: Belfort, FRANCE Date: DEC 11-14, 2017 | 0.00 | 3 | 8.33 |
| 20 | Ruba, Mircea; Jurca, Florin; Martis, Claudia | Analysis of synchronous reluctance machine for light electric vehicle applications, International Symposium on Power Electronics, Electrical Drives, Automation, and Motion (SPEEDAM) Location: Anacapri, ITALY Date: JUN 22-24, 2016 2016 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION (SPEEDAM) Pages: 1138-1143 Published: 2016 | 0.00 | 3 | 8.33 |
| 21 | Ruba, Mircea; Fodorean, Daniel | Motor-drive solution for light electric vehicles based on a switched reluctance machine, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Location: Cluj Napoca, ROMANIA Date: MAY 19-21, 2016 Sponsor(s): IEEE; IEEE Comp Soc Test Technol Tech Council; Tech Univ Cluj Napoca, Dept Automat; IPA PROCEEDING OF 2016 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR) Book Series: IEEE International Conference on Automation Quality and Testing Robotics Pages: 443-448 Published: 2016 | 0.00 | 2 | 12.50 |
| 22 | Ruba, Mircea; Hunor, Nagy; Hedesiu, Horia, Claudia Martis | FPGA based processor in the loop analysis of variable reluctance machine with speed control, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Location: Cluj Napoca, ROMANIA Date: MAY 19-21, 2016 Sponsor(s): IEEE; IEEE Comp Soc Test Technol Tech Council; Tech Univ Cluj Napoca, Dept Automat; IPA PROCEEDING OF 2016 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR) Book Series: IEEE International Conference on Automation Quality and Testing Robotics Pages: 455-460 Published: 2016 | 0.00 | 4 | 6.25 |
| 23 | Ruba, Mircea; Fodorean, Daniel | Development of a Complete Motor-Drive Solution for Light EV Based on a SRM, 9th International Conference and Exposition on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 20-22, 2016 Sponsor(s): IEEE Romania Sect; Gheorghe Asachi Tech Univ Iasi, Fac Elect Engrg; Grad Assoc Fac Elect Engrg Iasi PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 197-204 Published: 2016 | 0.00 | 2 | 12.50 |
| 24 | Ruba, Mircea; Hunor, Nagy; Hedesiu, Horia; Claudia Martis | Real-Time FPGA Model in the Loop Analysis of Permanent Magnet Synchronous Machine for LEV, 9th International Conference and Exposition on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 20-22, 2016 Sponsor(s): IEEE Romania Sect; Gheorghe Asachi Tech Univ Iasi, Fac Elect Engrg; Grad Assoc Fac Elect Engrg Iasi PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 219-224 Published: 2016 | 0.00 | 4 | 6.25 |
| 25 | Ruba, Mircea; Martis, Claudia; Szabo, Lorand; Jurca Florin | Analysis of a Switched Reluctance Machine for EV Application with Torque Smoothing Strategy, Electrical Drives and Power Electronics (EDPE) Location: High Tatras, SLOVAKIA Date: SEP 21-23, 2015 Sponsor(s): Tech Univ Kosice, Slovakia; Slovak Electrotechnical Soc Branch FEI TU Kosice, Slovakia; FER - Faculty of Elect Engr and Computing Univ of Zagreb Croatia; KoREMA - Croatian Soc for Commun, Comp, Elect, Measurement and Control; IEEE; IAS/IES Joint Chapter Czechoslovakia Section IEEE, automatica; atp journal; TRANSACTION ON ELECT ENGR; ZSVTS 2015 INTERNATIONAL CONFERENCE ON ELECTRICAL DRIVES AND POWER ELECTRONICS (EDPE) Pages: 266-271 Published: 2015 | 0.00 | 4 | 6.25 |
| 26 | Ruba, Mircea; Szabo, Lorand | Study of Light Electric Vehicles Propulsion Solutions by Means of Finite Element Method Based Co-Simulations, 15th IEEE International Symposium on Computational Intelligence and Informatics Location: Budapest, HUNGARY Date: NOV 19-21, 2014 Sponsor(s): IEEE Hungary Sect; IEEE Computat Intelligence Chapter; IEEE Joint Chapter Robot Automat & Ind Elect Soc; IEEE SMC Soc; Obuda Univ; Hungarian Fuzzy Ass 2014 IEEE 15TH INTERNATIONAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE AND INFORMATICS (CINTI) Book Series: International Symposium on Computational Intelligence and Informatics Pages: 415-420 Published: 2014 | 0.00 | 2 | 12.50 |
| 27 | Ruba, Mircea; Bentia, Ioana; Szabo, Lorand | Modular Fault Tolerant Switched Reluctance Machine - Design and Dynamic Simulations, 12th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 20-21, 2010 Sponsor(s): IEEE, IAS, IEEE, PELS, IEEE, IES OPTIM 2010: PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, PTIS I-IV Book Series: Proceedings of the International Conference on Optimization of Electrical and Electronic Equipment Pages: 641-646 Published: 2010 | 0.00 | 3 | 8.33 |
| 28 | Ruba, Mircea; Szabo, Lorand; Jurca, Florin | Fault Tolerant Switched Reluctance Machine for Wind Turbine Blade Pitch Control, Conference: International Conference on Clean Electrical Power (ICCEP 2009) Location: Capri, ITALY Date: JUN 09-11, 2009 2009 INTERNATIONAL CONFERENCE ON CLEAN ELECTRICAL POWER (ICCEP 2009), VOLS 1 AND 2 Pages: 716-721 Published: 2009 | 0.00 | 3 | 8.33 |
| 29 | Ruba, Mircea; Szabo, Lorand; Strete, Larisa, I.A. Viorel | Study on Fault Tolerant Switched Reluctance Machines, International Conference on Electrical Machines Location: Vilamoura, PORTUGAL Date: SEP 06-09, 2008 ICEM: 2008 INTERNATIONAL CONFERENCE ON ELECTRICAL MACHINES, VOLS 1-4 Pages: 963-968 Published: 2009 | 0.00 | 4 | 6.25 |
| 30 | Szabo, L.; Ruba, M.; Fodorean, D. | Simple converter structure for fault tolerant motors, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008) Location: Cluj Napoca, ROMANIA Date: MAY 22-25, 2008 Sponsor(s): IEEE Comp Soc, TTTC 2008 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL 1, PROCEEDINGS Pages: 244-249 Published: 2008 | 0.00 | 3 | 8.33 |
| 31 | Szabo, L.; Ruba, M.; Fodorean, D. | Study on a simplified converter topology for fault tolerant motor drives, 11th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 22-23, 2008 PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, VOL II A AND B Pages: 197-202 Published: 2008 | 0.00 | 3 | 8.33 |
| 32 | Szabo, Lorand; Ruba, Mircea; Fodorean, Daniel; et al. | Direct Instantaneous Torque Controlled Modular Switched Reluctance Motor Designed for Automotive Applications, ELEKTRO 10th International Conference Location: Rajecké Teplice, SLOVAKIA Date: MAY 19-20, 2014 Sponsor(s): Univ Zilina, Fac Elect Engrg; A2D Praha s r o Praha CZ; LIV EPI s r o Bratislava SK; SOITRON s r o Bratislava SK; Friescale Polovodice Ceska Republika s r o Roznov Radostem CZ; Eltodo a s Praha CZ; Scheidt & Bachmann Slovensko s r o Zilina SK; ELMAX ZILINA a s Zilina SK; Panasonic Ind Devices Slovakia s r o Trstena SK; HUMUSOFT s r o Praha CZ; JOHNSON CONTROLS Lucence s r o Odstepny Zavod Namestovo SK; IEEE, Czechoslovakia Sect; Univ Zilina, Communicat Sci Letters; Adv Elect & Elect Engr 2014 ELEKTRO Pages: 239-244 Published: 2014 | 0.00 | 5 | 5.00 |
| 33 | Szabo, Lorand; Bentia, Ioana; Popo, Dan-Cristian; et al. | Contributions to the Two Degrees of Freedom Modular Variable Reluctance Motors Used in Advanced Manufacturing Systems, IEEE International Conference on Automation, Quality and Testing, Robotics Location: Cluj Napoca, ROMANIA Date: MAY 24-27, 2012 2012 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, THETA 18TH EDITION Book Series: IEEE International Conference on Automation Quality and Testing Robotics Pages: 514-518 Published: 2012 | 0.00 | 4 | 6.25 |

| | | | | | |
|----|---|--|------|---|-------|
| 34 | Szabo, Lorand; Bentia, Ioana; Ruba, Mircea | A Rotary-Linear Switched Reluctance Motor for Automotive Applications, 20th International Conference on Electrical Machines (ICEM) Location: Marseille, FRANCE Date: SEP 02-05, 2012 Sponsor(s): IEEE Ind Elect Soc; IEEE Ind Applicat Soc; IEEE Power & Energy Soc; IEEE France Sect; Inst Eng & Technol 2012 XXTH INTERNATIONAL CONFERENCE ON ELECTRICAL MACHINES (ICEM) Pages: 2615-2621 Published: | 0.00 | 3 | 8.33 |
| 35 | Szabo, Lorand; Bentia, Ioana; Ruba, Mircea | Dual Motion Switched Reluctance Motor for Advanced Industrial Applications, 13th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 24-26, 2012 Sponsor(s): Transilvania Univ Brasov, Fac Elect Engr; Univ Politehn Timisoara, Fac Elect Engr; Techn Univ Cluj Napoca, Fac Elect Engr; IEEE; Ind Appl Soc; Power Elect Soc; Ind Elect Soc PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, VOLS 1-5 Book Series: Proceedings of the International Conference on Optimization of Electrical and Electronic Equipment Pages: 544-549 Published: | 0.00 | 3 | 8.33 |
| 36 | Szabo, Lorand; Ruba, Mircea | USING CO-SIMULATIONS IN FAULT TOLERANT MACHINE'S STUDY, 23rd European Conference on Modelling and Simulation (ECMS) Location: Rey Juan Carlos Univ, Madrid, SPAIN Date: JUN 09-12, 2009 Sponsor(s): Agencia Desarrollo Economico Madrid Empreude; Econom Dev Agcy, Ayuntamiento Madrid; Direccion Gen Universidades Investigacion-Res & Univ Gen Off, Comunidad Madrid - Region Madrid; Latvian Simulat Soc (LSS); Inst Elect & Elect Engineers (IEEE); ASSM - German Speaking Simulat Soc; EUROISM - Federat European Simulat Societies; PTSK - Polish Soc Comp Simulat 23RD EUROPEAN CONFERENCE ON MODELLING AND SIMULATION (ECMS 2009) Pages: 756-762 Published: | 0.00 | 2 | 12.50 |
| 37 | Szabo, Lorand; Ruba, Mircea | ON FAULT TOLERANCE INCREASE OF SWITCHED RELUCTANCE MACHINES, International IEEE Conference Devoted to the 150-Anniversary of Alexander S Popov Location: St Petersburg, RUSSIA Date: MAY 18-23, 2009 Sponsor(s): IEEE EUROCON 2009: INTERNATIONAL IEEE CONFERENCE DEVOTED TO THE 150 ANNIVERSARY OF ALEXANDER S. POPOV, VOLS 1-4, PROCEEDINGS Pages: 734 -+ Published: | 0.00 | 2 | 12.50 |
| 38 | Antonya, Csaba; Irimia, Cristi; Grovu, Mihail; et al. | Co-Simulation Environment for the Analysis of the Driving Simulator's Actuation, 7th IEEE International Conference on Control, Mechatronics and Automation (ICCCA) Location: Delft Univ Technol, Delft, NETHERLANDS Date: NOV 06-08, 2019 Sponsor(s): IEEE 2019 IEEE 7TH INTERNATIONAL CONFERENCE ON CONTROL, MECHATRONICS AND AUTOMATION (ICCCA 2019) Pages: 315-321 Published: | 0.00 | 5 | 5.00 |
| 39 | Blidar, Ovidiu Catalin; Munteanu, Radu A.; Iudean, Dan; et al. | Simulation of a Boost Converter for the Automotive Industry, 8th International Conference on Modern Power Systems (IMPS) Location: Cluj-Napoca, ROMANIA Date: MAY 21-23, 2019 Sponsor(s): Tech Univ Cluj Napoca; SDEE Transilvania Nord; Transselectrica; IEEE; IEEE Power & Energy Soc; IEEE Romanian Sect PROCEEDINGS OF 2019 8TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (IMPS) Published: 2019 | 0.00 | 5 | 5.00 |
| 40 | Chindris, V.; Ruba, M.; Fodorean, D. | Design and testing a low-voltage high-current drive for SRMs used in light electric vehicles, 16th International Power Electronics and Motion Control Conference and Exposition (PEMC) Location: Antalya, TURKEY Date: SEP 21-24, 2014 Sponsor(s): Gazi Univ; Power Elect Mot Control E W Technol Bridge; JIRED; IEEE; IES; IEEE Ind Applicat Soc; Tubitak; OPAL RT 2014 16TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE AND EXPOSITION (PEMC) Pages: 137-142 Published: 2014 | 0.00 | 3 | 8.33 |
| 41 | Chindris, Virgil; Terec, Rares; Ruba, Mircea; et al. | USEFUL SOFTWARE TOOL FOR SIMULATING SWITCHED RELUCTANCE MOTORS, 25th European Conference on Modeling and Simulation (ECMS 2011) Location: Krakow, POLAND Date: JUN 07-10, 2011 Sponsor(s): European Council Model & Simulat; Cracow Univ Technol; Univ Bielsko Biala; ABB Corp Res; NASK Res & Acad Computer Network; Fido Intelligence Sp z o o; Dwor w Tomaszowiec; Krakowski Centrum Konferencyjne; Univ Bielsko Biala; Akademia Techniczna Humanistyczna w Bielsku Biala; Inst Elect & Elect Engr; German Speak Simulat Soc; Federat European Simulat Soc; Latvian Simulat Soc PROCEEDINGS - 25TH EUROPEAN CONFERENCE ON MODELLING AND SIMULATION, ECMS 2011 Pages: 216-221 Published: | 0.00 | 5 | 5.00 |
| 42 | Ciornei, Sorina Maria; Ruba, Mircea; Nemes, Raul Octavian; et al. | Multi-level models for a light electric vehicle propulsion system using EMR organisation, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) Location: ELECT NETWORK Date: JUN 24-26, 2020 2020 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION (SPEEDAM 2020) Book Series: International Power Electronics Electrical Drives Automation and Motion SPEEDAM Pages: 357-362 Published: 2020 | 0.00 | 4 | 6.25 |
| 43 | Ciornei, Sorina Maria; Ruba, Mircea; Nemes, Raul Octavian; et al. | Modelling, control and simulation of a light electric vehicle propulsion system based on EMR, 111th AET International Annual Conference (AEIT) Location: Firenze, ITALY Date: SEP 18-20, 2019 Sponsor(s): AEIT 2019 AEIT INTERNATIONAL ANNUAL CONFERENCE (AEIT), 111TH EDITION Published: 2019 | 0.00 | 5 | 5.00 |
| 44 | Ciornei, Sorina-Maria; Nemes, Raul-Octavian; Ruba, Mircea; et al. | Real-Time FPGA Simulator for Electric Vehicle power supply systems, 2017 INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT (OPTIM) & 2017 INTL AEGEAN CONFERENCE ON ELECTRICAL MACHINES AND POWER ELECTRONICS (ACEMP) Pages: 983-988 Published: 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP) Location: Transilvania Univ Brasov, Brasov, ROMANIA Date: MAY 25-27, 2017 | 0.00 | 5 | 5.00 |
| 45 | Desreuveaux, Anatole; Ruba, Mircea; Bouscayrol, Alain; et al. | Comparisons of models of electric drives for electric vehicles, 16th IEEE Vehicle Power and Propulsion Conference (VPPC) Location: Hanoi, VIETNAM Date: OCT 14-17, 2019 Sponsor(s): IEEE; Bach Khoa; CTI; Univ Tokyo; IEEE VTS 2019 IEEE VEHICLE POWER AND PROPULSION CONFERENCE (VPPC) Book Series: IEEE Vehicle Power and Propulsion Conference Published: | 0.00 | 5 | 5.00 |
| 46 | Diko, Milan; Rafajdus, Pavol; Makys, Pavol; et al. | A Novel Design Conception of Switched Reluctance Motor for Electrical Vehicles, Diko, Milan; Rafajdus, Pavol; Makys, Pavol; et al. ELEKTRO 10th International Conference Location: Rajecke Teplice, SLOVAKIA Date: MAY 19-20, 2014 Sponsor(s): Univ Zilina, Fac Elect Engr; AZD Praha s r o Praha CZ; LIV EPI s r o Bratislava SK; SOITRON s r o Bratislava SK; Frenescale Polovodice Ceska Republika s r o Riezov Radostem CZ; Etodo a s Praha CZ; Scheidt & Bachmann Slovensko s r o Zilina SK; ELMAX ZILINA a s Zilina SK; Panasonic Ind Devices Slovakia s r o Trstena SK; HUMUSOFT s r o Praha CZ; JOHNSON CONTROLS Lucenc s r o Odstepny Zavod Namestovo SK; IEEE, Czechoslovakia Sect; Univ Zilina, Communicat Sci Letters; Adv Elect & Elect Engr 2014 ELEKTRO Pages: 273-278 Published: | 0.00 | 6 | 4.17 |
| 47 | Dubravka, Peter; Rafajdus, Pavol; Makys, Pavol; et al. | Design of Fault Tolerant Control Technique for SRM Drive, 16th European Conference on Power Electronics and Applications (EPE-ECCE Europe) Location: Lappeenranta, FINLAND Date: AUG 26-28, 2014 2014 16TH EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS (EPE'14-ECCE EUROPE) Book Series: European Conference on Power Electronics and Applications Published: 2014 | 0.00 | 7 | 3.57 |
| 48 | Fodorean, D.; Ruba, M.; Szabo, L.; et al. | Comparison of the Main Types of Fault-Tolerant Electrical Drives used in Vehicle Applications, Conference: International Symposium on Power Electronics, Electrical Drives, Automation and Motion Location: Ischia, ITALY Date: JUN 11-13, 2008 2008 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION, VOLS 1-3 Book Series: International Power Electronics Electrical Drives Automation and Motion SPEEDAM Pages: 895-900 Published: 2008 | 0.00 | 4 | 6.25 |
| 49 | Jurca, Florin Nicolae; Ruba, Mircea; Martis, Claudia | Design and Control of Synchronous Reluctances Motors for Electric Traction Vehicle, International Symposium on Power Electronics, Electrical Drives, Automation, and Motion (SPEEDAM) Location: Anacapri, ITALY Date: JUN 22-24, 2016 2016 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION (SPEEDAM) Pages: 1144-1148 Published: | 0.00 | 3 | 8.33 |

| | | | | | |
|----|---|--|------|--------------|---------------|
| 50 | Jurca, Florin Nicolae; Ruba, Mircea; Martis, Claudia | Analysis of Permanent Magnet Synchronous Machine for Integrated Starter-Alternator-Booster Applications, Electrical Drives and Power Electronics (EDPE) Location: High Tatras, SLOVAKIA Date: SEP 21-23, 2015 Sponsor(s): Tech Univ Kosice, Slovakia; Slovak Electrotechnical Soc Branch FEI TU Kosice, Slovakia; FER - Faculty of Elect Engn and Computing Univ of Zagreb Croatia; KoREMA - Croatian Soc for Commun, Comp, Elect, Measurement and Control; IEEE; IAS/IEEE Joint Chapter Czechoslovakia Section IEEE; automatika; atp journal; TRANSACTION ON ELECT ENGN; ZSVTS 2015 INTERNATIONAL CONFERENCE ON ELECTRICAL DRIVES AND POWER ELECTRONICS (EDPE) Pages: 272-276 Published: 2015 | 0.00 | 3 | 8.33 |
| 51 | Martis, Radu; Piglesan, Florin Pop; Martis, Claudia; et al. | Design and Optimization Platform for Synchronous Motors, International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) Location: Amalfi, ITALY Date: JUN 20-22, 2018 2018 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION (SPEEDAM) Book Series: International Power Electronics Electrical Drives Automation and Motion SPEEDAM Pages: 314-318 Published: 2018 | 0.00 | 5 | 5.00 |
| 52 | Nagy, Hunor; Ruba, Mircea; Hedesiu, Horia; et al. | FPGA Based Real-Time Simulation of a Switched Reluctance Machine Drive Unit, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Location: Cluj Napoca, ROMANIA Date: MAY 19-21, 2016 Sponsor(s): IEEE; IEEE Comp Soc Tech Council; Tech Univ Cluj Napoca, Dept Automat; IPA PROCEEDING OF 2016 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR) Book Series: IEEE International Conference on Automation Quality and Testing Robotics Pages: 449-453 Published: 2016 | 0.00 | 4 | 6.25 |
| 53 | Nagy, Hunor; Ruba, Mircea; Hedesiu, Horia; et al. | Rapid Control Prototyping of a Speed Control Strategy for a Switched Reluctance Machine, 9th International Conference and Exposition on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 20-22, 2016 Sponsor(s): IEEE Romania Sect; Gheorghe Asachi Tech Univ Iasi, Fac Elect Engn; Grad Assoc Fac Elect Engn Iasi PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 664-668 Published: | 0.00 | 4 | 6.25 |
| 54 | Nemes, Raul; Ciornel, Sorina; Ruba, Mircea; et al. | Modeling and simulation of first-order Li-ion battery cell with experimental validation, 8th International Conference on Modern Power Systems (MPS) Location: Cluj-Napoca, ROMANIA Date: MAY 21-23, 2019 Sponsor(s): Tech Univ Cluj Napoca; SDEE Transilvania Nord; TransElectrica; IEEE; IEEE Power & Energy Soc; IEEE Romanian Sect PROCEEDINGS OF 2019 8TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS) Published: 2019 | 0.00 | 4 | 6.25 |
| 55 | Nemes, Raul Octavian; Ciornel, Sorina Maria; Ruba, Mircea; et al. | Parameters identification using experimental measurements for equivalent circuit Lithium-Ion cell models, 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Bucharest, ROMANIA Date: MAR 28-30, 2019 2019 11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Book Series: International Symposium on Advanced Topics in Electrical Engineering Published: | 0.00 | 4 | 6.25 |
| | Nemes, R; Ciornel, S; Ruba, M; Martis, C; Hedesiu, H | Urban light electric vehicle real-time model architecture using VeriStand Software, 2021 IEEE 19TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE (PEMC), APR 25-29, 2021, Silesian Univ Technol, ELECTR NETWORK | 0.00 | 5 | 5.00 |
| | Hedesiu, Horia; Ruba, Mircea; Martis, Claudia; Grebla, Horea; Kilyen, Csaba; Moldovan, Horea Florin | PV Monitoring System using Industrial Internet of Things Technologies based on Graphical Programming, 2021 INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE), MAY 27-29, 2021, 2376-4163, 10.1109/ICATE49685.2021.9465023 | 0.00 | 6 | 4.17 |
| | Ruba, M; Nemes, R; Ciornel, S; Martis, C; Hedesiu, H | A review on analytical methods for multilevel simulation of urban light electric vehicles, IEEE 19th International, Power Electronics and Motion Control Conference (PEMC), APR 25-29, 2021, 978-1-7281-5660-6 | 0.00 | 5 | 5.00 |
| | Nicoric, Andreea-Madalina; Ruba, Mircea; Martis, Claudia Steluta; Szabo, Lorand; Mathe, Zolt | Comparative Analysis of Permanent Magnet Synchronous Machines Designed for Electric Power Steering , 2020 XI INTERNATIONAL CONFERENCE ON ELECTRICAL POWER DRIVE SYSTEMS (ICEPDS), OCT 04-07, 2020, 978-1-7281-6539-7 | 0.00 | 5 | 5.00 |
| | Ciornel, Sorina; Nemes, Raul; Ruba, Mircea; Martis, Claudia; Hedesiu, Horia | Performance analysis of urban light electric vehicle propulsion system's multi-level modelling, PROCEEDINGS OF 2020 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, MAY 21-23, 2020, Cluj-Napoca, ROMANIA, 1844-7872 | 0.00 | 5 | 5.00 |
| | Antonya, Csaba; Irimia, Crist; Grovu, Mihail; Husar, Calin; Ruba, Mircea | Co-Simulation Environment for the Analysis of the Driving Simulator's Actuation, 2019 IEEE 7TH INTERNATIONAL CONFERENCE ON CONTROL, MECHATRONICS AND AUTOMATION (ICCA 2019), Delft Univ Technol, Delft, NETHERLANDS, 978-1-7281-3787-2 | 0.00 | 5 | 5.00 |
| | | | | Total | 589.16 |

2.2 Articole in reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI *)

| Nr. | Autori | Titlu lucrare, revistă/ volum manifestare științifică, pagini | Baza de date | Nr. Autori | Punctaj | Incastrare |
|-----|--|--|--------------|------------|------------|------------|
| 1 | Ruba, M., Fodorean, D. | Investigation of switched reluctance machine for EV propulsion unit with torque smoothening strategy, Progress in Electromagnetics Research Symposium Volume 2015-January, 2015, Pages 463-468 ; Code 113716 | SCOPUS | 2 | 10 | REVISTE |
| 2 | Neme, Raul-Octavian; Ciornel, Sorina-Maria; Ruba, Mircea; et al. | Real-Time Simulation of Scaled Propulsion Unit for Light Electric Vehicles, 12th International Conference on Elektro Location: Mikulov, CZECH REPUBLIC Date: MAY 21-23, 2018 Sponsor(s): Univ Zilina, Fac Elect Engn; IEEE Reg 8; IEEE Czechoslovakia Sect 12TH INTERNATIONAL CONFERENCE ELEKTRO 2018 Published: 2018 | SCOPUS | 4 | 5 | |
| 3 | Szabo, L., Ruba, M., Fodorean, D., Rafajdus, Dubravka, P. | Torque smoothing of a fault tolerant segmental stator switched reluctance motor, Communications - Scientific Letters of the University of Zilina Volume 17, Issue 1 a, 2015, Pages 95-101 | SCOPUS | 5 | 4 | |
| 4 | Diko, Milan; Rafajdus, Pavol; Makys, Pavol; et al. | A NOVEL CONCEPT OF SHORT-FLUX PATH SWITCHED RELUCTANCE MOTOR FOR ELECTRICAL VEHICLES, ADVANCES IN ELECTRICAL AND ELECTRONIC ENGINEERING Volume: 13 Issue: 3 Pages: 206-211 Published: SEP 2015 | SCOPUS | 6 | 3.33333333 | |
| 5 | Chindris, Virgil; Terec, Rares; Ruba, Mircea; et al. | Software Environment for Online Simulation of Switched Reluctance Machines, ADVANCES IN INTELLIGENT MODELING AND SIMULATION: SIMULATION TOOLS AND APPLICATIONS Book Series: Studies in Computational Intelligence Volume: 416 Pages: 85-109 Published: 2012 | SCOPUS | 4 | 5 | |
| 6 | Ruba, M., Szabó, L. | Fault tolerance study of switched reluctance machines by means of advanced simulation techniques, IJlack Periodica Volume 4, Issue 2, 1 August 2009, Pages 107-116 | SCOPUS | 2 | 10 | |
| 7 | Nicoici, A.-M., Ruba, M., Martis, C.S., Szabo, L., Mathe, Z. | Comparative Analysis of Permanent Magnet Synchronous Machines Designed for Electric Power Steering Applications, 2020 11th International Conference on Electrical Power Drive Systems, ICEPDS 2020 - Proceedings 4 October 2020, Article number 9249074 11th International Conference on Electrical Power Drive Systems, ICEPDS 2020, Saint Petersburg, Russian Federation: 4 October 2020 through 7 October 2020; Category numberCFP20F20-ART; Code 164474 | SCOPUS | 5.000 | 4.000 | |
| 8 | Ruba, M., Fodorean, D. | Design, analysis and torque control of low voltage high current SRM for small automotive applications, IEEE EuroCon 2013 2013, Article number 6625176, Pages 1498-1503 IEEE EuroCon 2013; Zagreb; Croatia; 1 July 2013 through 4 July 2013; Category numberCFP13EUR-ART; Code 101060 | SCOPUS | 2.000 | 10.000 | |
| 9 | Terec, R., Benjia, I., Ruba, M., Szabó, L., Rafajdus, P. | Effects of winding faults on the switched reluctance machine's working performances, LINDI 2011 - 3rd IEEE International Symposium on Logistics and Industrial Informatics, Proceedings 2011, Article number 6031137, Pages 143-148 3rd IEEE International Symposium on Logistics and Industrial Informatics, LINDI 2011; Budapest; Hungary; 25 August 2011 through 27 August 2011; Category numberCFP1185C-CDR; Code 87188 | SCOPUS | 5.000 | 4.000 | |
| 10 | Fodorean, D., Ruba, M., Popa, D.C., Miraoui, A. | Fault tolerant permanent magnet machines used in automobile applications, 19th International Conference on Electrical Machines, ICEM 2010 2010, Article number 5608281 19th International Conference on Electrical Machines, ICEM 2010; Rome; Italy; 6 September 2010 through 8 September 2010; Category numberCFP1090B; Code 82728 | SCOPUS | 4.000 | 5.000 | |

| | | | | | |
|----|---|--|--------|--------------|----------------|
| 11 | Nemes, R., Ciomei, S., Ruba, M., Hedesiu, H., Martis, C. | Modeling and simulation of first-order Li-Ion battery cell with experimental validation, Proceedings of 2019 8th International Conference on Modern Power Systems, MPS 2019 May 2019, Article number 8759769 8th International Conference on Modern Power Systems, MPS 2019; Technical University of Cluj-Napoca/Cluj-Napoca, Romania; 21 May 2019 through 23 May 2019, Category numberCFP19MPP-ART; Code 149545 | SCOPUS | 5.000 | 4.000 |
| 12 | Husar, C., Raclaru, E.E., Irimia, C., Grovu, M., Panchant, M., Jaguemont, J., Bouscayrol, A., German, R., Ruba, M., Martis, C., Sirbu, G.M. | Multi-level simulation of a BEV using EMR methodology, 2020 IEEE Vehicle Power and Propulsion Conference, VPPC 2020 - Proceedings November 2020, Article number 9330943 17th IEEE Vehicle Power and Propulsion Conference, VPPC 2020; Virtual, Gijon; Spain; 18 November 2020 through 16 December 2020, Category numberCFP20VPP-ART; Code 167315 | SCOPUS | 11.000 | 1.818 |
| 13 | Benja, I., Szabó, L., Ruba, M. | On a rotary-linear switched reluctance motor, SPEEDAM 2012 - 21st International Symposium on Power Electronics, Electrical Drives, Automation and Motion 2012, Article number 6264442, Pages 507-510 21st International Symposium on Power Electronics, Electrical Drives, Automation and Motion, SPEEDAM 2012; Sorrento, Italy; 20 June 2012 through 22 June 2012; Code 92981 | SCOPUS | 3.000 | 6.667 |
| 14 | Benja, I., Ruba, M., Szabó, L. | On the control of a rotary-linear switched reluctance motor, ISCIII 2011 - 5th International Symposium on Computational Intelligence and Intelligent Informatics 2011, Article number 6069739, Pages 41-46 5th International Symposium on Computational Intelligence and Intelligent Informatics, ISCIII 2011; Floriana; Malta; 15 September 2011 through 17 September 2011; Code 87538 | SCOPUS | 3.000 | 6.667 |
| 15 | Terec, R., Benja, I., Ruba, M., Szabó, L., Rafajdus, P. | On the usefulness of numeric field computations in the study of the switched reluctance motor's winding faults, ISCIII 2011 - 5th International Symposium on Computational Intelligence and Intelligent Informatics 2011, Article number 6069753, Pages 117-120 5th International Symposium on Computational Intelligence and Intelligent Informatics, ISCIII 2011; Floriana; Malta; 15 September 2011 through 17 September 2011; Code 87538 | SCOPUS | 5.000 | 4.000 |
| 16 | Ciomei, S., Nemes, R., Ruba, M., Martis, C., Hedesiu, H. | Performance analysis of urban light electric vehicle propulsion systems multi-level modelling, 2020 22nd IEEE International Conference on Automation, Quality and Testing, Robotics - THETA, AQTR 2020 - Proceedings May 2020, Article number 9129938 22nd IEEE International Conference on Automation, Quality and Testing, Robotics - THETA, AQTR 2020; Cluj-Napoca; Romania; 21 May 2020 through 23 May 2020; Category numberCFP20AQTR-ART; Code 161533 | SCOPUS | 5.000 | 4.000 |
| 17 | Ruba, M., Hunor, N., Hedesiu, H., Martis, C. | Real-Time FPGA model in the loop analysis of Permanent Magnet Synchronous Machine for LEV, Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering, EPE 2016 9 December 2016, Article number 7781336, Pages 219-224 9th International Conference and Exposition on Electrical and Power Engineering, EPE 2016; Iasi; Romania; 20 October 2016 through 22 October 2016; Category numberCFP1647S-ART; Code 125306 | SCOPUS | 4.000 | 5.000 |
| 18 | Nemes, Raul-Octavian; Ruba, Mircea; Ciomei, Sorina; et al. | Real-Time Co-simulation of Electric Power Steering System, 10th International Conference and Expositions on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 18-19, 2018 Sponsor(s): Gheorghe Asachi Tech Univ Iasi, Fac Elect Eng; IEEE Romania Sect; IEEE; Setis; Fac Elect Eng Iasi, Graduates Assoc 2018 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 103-106 Published: 2018 | SCOPUS | 6 | 3.333 |
| 19 | Nemes, Raul-Octavian; Ruba, Mircea; Martis, Claudia | Integration of Real-Time Electric Power Steering System Matlab/Simulink Model into National Instruments VeriStand environment, 18th IEEE International Power Electronics and Motion Control Conference (IEEE PEMC) Location: World Trade Ctr, Budapest, HUNGARY Date: AUG 26-30, 2018 Sponsor(s): IEEE; Budapest Univ Technol & Econ; IEEE Ind Elect Soc; IEEE Ind Applicat Soc 2018 IEEE 18TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE (PEMC) Book Series: IEEE International Power Electronics and Motion Control Conference IPPEC Pages: 790-793 Published: 2018 | SCOPUS | 4 | 5.000 |
| 20 | Ruba, Mircea; Ciomei, Sorina; Nemes, Raul; Claudia Martis, Alain Bouscayrol, Horia Hedesiu | Digital Twin Real-Time FPGA implementation for light electric vehicle propulsion system using EMR organization, Conference: 16th IEEE Vehicle Power and Propulsion Conference (VPPC) Location: Hanoi, VIETNAM Date: OCT 14-17, 2019 Sponsor(s): IEEE; Bach Khoa; CTI; Univ Tokyo; IEEE VTS 2019 IEEE VEHICLE POWER AND PROPULSION CONFERENCE (VPPC) Book Series: IEEE Vehicle Power and Propulsion Conference Published: 2019 | SCOPUS | 6 | 3.333 |
| 21 | Ciomei, Sorina-Maria; Nemes, Raul-Octavian; Ruba, Mircea; et al. | Real-Time Simulation of a Complete Electric Vehicle Based on NI VeriStand Integration Platform, 10th International Conference and Expositions on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 18-19, 2018 Sponsor(s): Gheorghe Asachi Tech Univ Iasi, Fac Elect Eng; IEEE Romania Sect; IEEE; Setis; Fac Elect Eng Iasi, Graduates Assoc 2018 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 107-112 Published: 2018 | SCOPUS | 6 | 3.333 |
| | | | | Total | 107.485 |

Conferinta BDI

2.3 Brevete de inventie indexate in alte baze de date

A2.3.2 Brevete nationale

| Nr. | Autori | Titlu brevet | Baza de date | Nr. Autori | Punctaj | Dovada |
|-----|------------------------------|--|--------------|--------------|-----------|---|
| | Mircea Ruba, Lorand Szabo | MOTOR ELECTRIC CU RELUCTANTA COMUTATA TOLERANT LA DEFECTE CU CONSTRUCTIE MODULARA. | OSIM | 2 | 8 | BrevetMotorModular |
| | Mircea Ruba, Daniel Fodorean | MAȘINA CU RELUCTANȚA COMUTATĂ CU AUTOVENTILAJE INTERNĂ LA ROTOR | OSIM | 2 | 8 | BrevetMotorAutoventilaj |
| | Mircea Ruba, Florin Jurca | SISTEM JANTA CU MOTOR ELECTRIC INCORPORAT PENTRU VEHICULE ELECTRICE | OSIM | 2 | 8 | BrevetSistemJanta |
| | Mircea Ruba | PROCEDURA PROGRAMABILĂ DE DETECTIE A DEFECTELOR LA SENZORII DE CURENT A UNUI CONVERTOR ELECTRONIC TRIFAZAT | OSIM | 1 | 15 | BrevetDetectieDefecte |
| | | | | Total | 38 | |

2.4 Granturi/proiecte câștigate prin competiție națională/ internațională *

A2.4.1.2 Granturi castigate prin competitie nationala

| Nr. | Director/ Responsabil proiect partener/ Membru in echipa | Denumire proiect, tip, cod, date identificare | Perioada | Nr. ani derulare | Punctaj | Dovada |
|-----|--|--|-------------------------|------------------|-----------|-----------------------------------|
| 1 | Director | SOLUȚII INOVATIVE PENTRU RANDAMANET RIDICAT IN DOMENIUL TRANSPORTULUI ELECTRIC URBAN (INHERIT), 491PED din 09/11/2020 (PN-II-P2-2-1-PED-2019-4384) | 09/11/2020 - 08/11/2022 | 2 | 20 | DovadaDirectorPED |
| 2 | Director | MULTILEVEL DIGITAL DEVELOPMENT PLATFORM FOR ELECTRIC VEHICLES [MULTILEVEL], TE 68 din 31/08/2020 (PN-III-P1-1.1-TE-2019-0411) | 15/09/2020 - 14/09/2022 | 2 | 20 | DovadaTineretului |
| | | | | Total | 40 | |

A2.4.2 Membru in echipe de cercetare

A2.4.2.1 Membru in echipe de cercetare proiecte internationale

| Nr. | Director/ Responsabil proiect partener/ Membru in echipa | Denumire proiect, tip, cod, date identificare | Perioada | Nr. ani derulare | Punctaj |
|-----|--|---|-----------|------------------|---------|
| 1 | Membru in echipa | Powerful Advanced N-Level Digitalization Architecture for models of electrified vehicles and their components (PANDA), Horizon 2020, no. 824256, Coordonator: Pr. Alain Bouscayrol, University of Lille, France | 2018-2021 | 3 | 12 |
| 2 | Membru in echipa | Strengthening the Research potential of CAREESD in the field of Electromechanical Systems and Power Electronics for Sustainable Applications, ESPESA_692224/2015 H2020-TWINNino -2015 | 2016-2018 | 2 | 8 |

| | | | | | |
|---|------------------|--|-----------|--------------|-----------|
| 3 | Membru în echipă | ADVANCED RELUCTANCE MOTORS FOR ELECTRIC VEHICLE APPLICATIONS - ARMEVA, COLLABORATIVE PROJECT - SMALL OR MEDIUM-SCALE FOCUSED, 2013-2016, research project (CP-FP), 2013-2016 | 2013-2016 | 3 | 12 |
| 4 | Membru în echipă | OPTIMAL LOW-NOISE ENERGY-EFFICIENT ELECTRICAL MACHINES AND DRIVES FOR AUTOMOTIVE APPLICATIONS, 324329/2012 de tip FP7 IAPP, 2013-2016 | 2013-2016 | 3 | 12 |
| 5 | Membru în echipă | DESIGN, MODELLING AND TESTING TOOLS FOR ELECTRICAL VEHICLES POWERTRAIN DRIVES, 324345/2012 de tip FP7 IAPP, 2013-2016 | 2013-2016 | 3 | 12 |
| | | | | Total | 56 |

A2.4.2.2 Membru în echipe de cercetare proiecte naționale

| Nr. | Director/ Responsabil proiect partener/ Membru în echipă | Denumire proiect, tip, cod, date identificare | Perioada | Nr. ani derulare | Punctaj |
|-----|--|--|-----------|------------------|-----------|
| 1 | Membru în echipă | Micro-inventoare cu densitate mare de putere și eficiență ridicată pentru surse regenerabile de energie - MICROINV, Actiunea: POC-A1-A1.2.3-G-2-15 Parteneriate pentru transfer de cunoștințe, Nr. contract de finanțare: 16/1.09.2016, ID: P_40_391, MySMIS: 105616, Director de proiect: Sl.dr.ing. Petre Dorel TEODOSESCU | 2016-2021 | 5 | 10 |
| 2 | Membru în echipă | Tehnologii pentru vehicule electrice urbane inteligente URBIVEL, ID: P_40_333, MySMIS: 105565, POC: AXA PRIORITARA 1 - CERCETARE, DEZVOLTARE TEHNOLOGICA SI INOVARE (CDI) IN SPRUNJUL COMPETITIVITATII ECONOMICE SI DEZVOLTARII AFACERILOR Actiunea 1.2.3 PARTENERIATE PENTRU TRANSFER DE CUNOSTINTE, UTCN coordonator, 2016-2021, project manager: Claudia Maris | 2016-2021 | 5 | 10 |
| 3 | Membru în echipă | Platforma Hardware in the Loop pentru testarea sistemelor de direcție asistată a autovehiculelor - Universitatea Tehnică din Cluj-Napoca, Contractul de cercetare nr. 1988/12.07.17, Competiția Interna CICDI-2017, proiect manager: Mircea RUBA | 2017-2018 | 1 | 2 |
| 4 | Membru în echipă | PN-III-CERC-PTE-2016 10PTE/2016, Serie de servo-motoare electrice fara perii cu armaturi realizate din materiale magnetice moi compozite, SMCASERVO, coordonator ICPE, 2016-2018 | 2016-2018 | 2 | 4 |
| 5 | Membru în echipă | Post-Doctoral Programme POSDRU/159/1.5/S/137516, proiect co-fundat from European Social Fund through the Human Resources Sectorial Operational Program 2007-2013 | 2007-2013 | 1 | 2 |
| 6 | Membru în echipă | Innovative power grid protection device against low power factor electronic loads, PCCA 2013, Nr. 60/2014 2013-2015 | 2013-2015 | 2 | 4 |
| 7 | Membru în echipă | Masini cu reluctanta comutata electronic destinate aplicatiilor auto avansate, Contract de colaborare stiintifica si tehnologica bilaterala româno-slovaca dintre Universitatea din Zilina (Republica Slovaca) si Universitatea Tehnica din Cluj-Napoca (România), Finantatori: Unitatea Executiva pentru Finantarea Invatamântului Superior, a Cercetării, Dezvoltării si Inovării din România (UEFISCDI) si Agenția pentru Cercetare si Dezvoltare din Republica Slovaca (SRDA), 2013-2014, contract integrat in programul CAPACITATI modulul III (contract nr. 647 / 15.04.13). | 2013-2014 | 1 | 2 |
| 8 | Membru în echipă | Innovative wind energy conversion micro-system with direct-driven electric generator for residential uses - Beneficiar: Ministerul Educatiei si Cercetării, UEFISCDI, Contract nr. 29/2012, PCCA 2012-2015 | 2012-2015 | 3 | 6 |
| 9 | Membru în echipă | AUTOMOTIVE LOW-NOISE ELECTRICAL MACHINES AND DRIVES OPTIMAL DESIGN AND DEVELOPMENT -ALNEMAD, Beneficiar: Ministerul Educatiei si Cercetării, UEFISCDI, contract nr. 181/2012, PCCA 2012-2015 | 2012-2015 | 3 | 6 |
| 10 | Membru în echipă | Hardware-in-the-Loop Modular Platform for Testing the Energy Management of Competitive & Highly-Efficient Hybrid-Electric Vehicles (HITECH-HEV) - Ponect PCCA 191/2012, director Daniel FODOREAN | 2012-2015 | 3 | 6 |
| 11 | Membru în echipă | EHICUL HIBRID INTELIGENT PENTRU TRANSPORTUL INDIVIDUAL AL PERSOANELOR CU MOBILITATE REDUSA WHEEL-EE (de la englezescul WHEEL chair, E nergy- E Efficient), este finanțat de către Consiliul Național al Cercetării și Inovării din Învățământul Superior (CNCSIS) | 2010-2013 | 3 | 6 |
| 12 | Membru în echipă | Masini cu reluctanta variabila de performante imbunatatite destinate aplicatiilor din procese industriale critice, Contract de colaborare stiintifica si tehnologica bilaterala româno-slovaca dintre Universitatea din Zilina (Republica Slovaca) si Universitatea Tehnica din Cluj-Napoca (România), Finantatori: Ministerul Educatiei din România si Republica Slovaca, 2011-2012, contract integrat in programul CAPACITATI modulul III (contract nr. 472 / 07.03.11) | 2011-2012 | 3 | 6 |
| 13 | Membru în echipă | Echipe tolerate la defecte controlate prin arhitecturi electronice de inspiratie biologica, Contract Parteneriate (PNCD II) nr. 12121 / 01.10.2008, finantat de CNMP, Partener: Universitatea Tehnica din Cluj-Napoca, Universitatea Babeș-Bolyai din Cluj-Napoca, Centrul International de Biodinamica Bucuresti si S.C. ICPE - Institutul de Cercetari pentru Masini Electrice S.A. Bucuresti, Responsabil echipa de cercetare, 2008-2010, Director de proiect: Szász Csaba | 2008-2010 | 2 | 4 |
| 14 | Membru în echipă | Comanda avansata la distanta, monitorizarea si diagnoza actualoarelor electromecanice liniare si rotative utilizate in sisteme industriale automatizate, Contract de colaborare stiintifica si tehnologica bilaterala româno-maghiara dintre Universitatea din Miskolc (Ungaria) si Universitatea Tehnica din Cluj-Napoca (România), Finantatori: Ministerul Educatiei din România si Ungaria, 2008-2009, contract nr. RO 9/2007, RCID1) integrat in programul CAPACITATI modulul III, (contract nr. 27 /09.06.08). | 2007-2009 | 2 | 4 |
| | | | | Total | 72 |

2.5 Contracte de cercetare/consultanță

| 2.5.2 Membru în echipă | | | | | |
|------------------------|--|---|-----------|------------------|----------|
| Nr. | Director/ Responsabil proiect partener/ Membru în echipă | Denumire proiect, tip, cod, date identificare | Perioada | Nr. ani derulare | Punctaj |
| 1 | Membru în echipă | Colaboare UTCN- S.C. Electroprecizia Electrical Motors S.R.L., Săcele Brasov, contract cu terți, (2015-2016). | 2015-2016 | 1 | 2 |
| 2 | Membru în echipă | UTCN- Continental Sibiu contract cu terți (MagLev) No.5004/15.02.2017 (2017-2018) | 2017-2018 | 1 | 2 |
| 3 | Membru în echipă | UTCN-Delonghi Scholarship grant 1096/05.09.2018 | 2018-2019 | 1 | 2 |
| | | | | Total | 6 |

RECUNOAȘTEREA ȘI IMPACTUL ACTIVITĂȚII (A3)

Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare - COMISIA DE INGINERIE ELECTRICĂ

(conform Ordinului MENCS nr. 6129 din 20 decembrie 2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare / Anexa Nr. 9)

| Nr. Crt | Domeniul activităților | Tipul activităților | Categoriile și restricțiile | Subcategoriile | Indicatori (kp) | Număr | Punctaj |
|--|--|---|--|--|-----------------|-----------------|---------|
| 3 | Recunoașterea și impactul activității (A3) | 3.1 Citări în revistele WOS și volumele conferințelor WOS ** | 3.1.1 Profesor univ./ CS I: minimum 10 citări | 5 / nr. autori ai articolului citat | 132 | 319.679 | |
| | | | 3.1.2 Conferențiar univ./ CS II: minimum 7 citări | | | | |
| | | 3.2 Citări în revistele BDI și volumele conferințelor BDI ** | 3.2.1 Profesor univ./ CS I: minimum 20 citări | 3 / nr. autori ai articolului citat | 55 | 57.500 | |
| | | | 3.2.2 Conferențiar univ./ CS II: minimum 10 citări | | | | |
| | | 3.3 Prezentări invitate în plenum unor manifestări științifice naționale și internaționale și Profesor invitat (exclusiv POS, ERASMUS) | Punctaj unic pentru fiecare activitate | 3.3.1 internaționale | 20 | 1 | 20 |
| | | | | 3.3.2 naționale | 5 | | |
| | | 3.4 Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale (punctajul se acordă pentru fiecare revistă, manifestare științifică și recenzie) | Punctaj unic pentru fiecare activitate | 3.4.1 WOS | 10 | 31 | 310 |
| | | | | 3.4.2 BDI | 6 | | |
| | | | | 3.4.3 naționale și internaționale neindexate | 3 | | |
| | | | | 3.5.1 internaționale | 10 | | |
| | | 3.5 Referent în comisia de doctorat | | 3.5.2 naționale | 5 | | |
| | | | | Academia Română | 30 | | |
| | | 3.6 Premii | | ASAS, AOSR, academii de ramură și CNCS | 15 | | |
| | | | | Premii internaționale | 10 | 21 | 310 |
| Premii naționale în domeniu | 5 | | | | | | |
| 3.7.1 Academia Română | 100 | | | | | | |
| 3.7 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării științifice | | 3.7.2 ASAS, AOSR și academii de ramură | 30 | | | | |
| | | 3.7.3 Conducere asociații profesionale | 30 | | | | |
| | | 3.7.4 Asociații profesionale | internaționale | 10 | | | |
| | | | naționale | 5 | 2 | 10 | |
| | | 3.7.5 Consilii și organizații în domeniul educației și cercetării | internaționale | 2 | | | |
| | | | naționale | 15 | | | |
| | | | 10 | | | | |
| TOTAL A3 | | | | | | 1027.179 | |

3.1 Citări în revistele WOS și volumele conferințelor WOS **

| Nr. | Articol citat (autori, revistă/ volum conferință/ an / pagini) | Articol care citează (autori, revistă WOS / volum conferință WOS/ an / pagini) | Numar citari | Număr de autori ai articolului citat | Punctaj |
|-----|--|--|--------------|--------------------------------------|-------------|
| 1 | Segmental Stator Switched Reluctance Machine for Safety-Critical Applications By: Szabo, Lorand; Ruba, Mircea IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 48 Issue: 6 Special Issue: SI Pages: 2223 - 2229 Published: NOV-DEC 2012 | wos1.xls | 52 | 2 | 130 |
| 2 | Analysis of Fault-Tolerant Multiphase Power Converter for a Nine-Phase Permanent Magnet Synchronous Machine By: Ruba, Mircea; Fodorean, Daniel IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 48 Issue: 6 Special Issue: SI Pages: 2092 - 2101 Published: NOV-DEC 2012 | wos3.xls | 31 | 2 | 77.5 |
| 3 | Synchronous reluctance machine geometry optimisation through a genetic algorithm based technique By: Ruba, Mircea; Jurca, Florin; Czumbil, Levente; et al. IET ELECTRIC POWER APPLICATIONS Volume: 12 Issue: 3 Pages: 431-438 Published: MAR 2018 | wos4.xls | 14 | 7 | 10 |
| 4 | Study on a simplified converter topology for fault tolerant motor drives By: Szabo, L.; Ruba, M.; Fodorean, D. Conference: 11th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 22-23, 2008 PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND | wos5.xls | 2 | 3 | 3.33333333 |
| 5 | Comparison of the Main Types of Fault-Tolerant Electrical Drives used in Vehicle Applications By: Fodorean, D.; Ruba, M.; Szabo, L.; et al. Conference: International Symposium on Power Electronics, Electrical Drives, Automation and Motion Location: Ischia, ITALY Date: JUN 11-13, 2008 2008 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION, VOLS 1-3 Book Series: International Power Electronics Electrical Drives Automation and Motion | wos6.xls | 6 | 4 | 7.5 |
| 6 | A NOVEL CONCEPT OF SHORT-FLUX PATH SWITCHED RELUCTANCE MOTOR FOR ELECTRICAL VEHICLES By: Diko, Milan; Rafajdus, Pavol; Makys, Pavol; et al. ADVANCES IN ELECTRICAL AND ELECTRONIC ENGINEERING Volume: 13 Issue: 3 Pages: 206-211 | wos7.xls | 4 | 6 | 3.33333333 |
| 7 | A Rotary-Linear Switched Reluctance Motor for Automotive Applications By: Szabo, Lorand; Bentia, Ioana; Ruba, Mircea Conference: 20th International Conference on Electrical Machines (ICEM) Location: Marseille, FRANCE Date: SEP 02-05, 2012 Sponsor(s): IEEE Ind Elect Soc; IEEE Ind Applicat Soc; IEEE Power & Energy Soc; IEEE France Sect; Inst Enon & Technol Design and Control of Synchronous Reluctances Motors for Electric Traction Vehicle | wos8.xls | 7 | 3 | 11.66666667 |
| 8 | By: Jurca, Florin Nicolae; Ruba, Mircea; Martis, Claudia Conference: International Symposium on Power Electronics, Electrical Drives, Automation, and Motion (SPEEDAM) Location: Anacapri, ITALY Date: JUN 22-24, 2016 2016 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION (SPEEDAM) Pages: 1144-1148 Published: 2016 | wos9.xls | 5 | 3 | 8.33333333 |
| 9 | Fault Tolerant Switched Reluctance Machine for Wind Turbine Blade Pitch Control By: Ruba, Mircea; Szabo, Lorand; Jurca, Florin Conference: International Conference on Clean Electrical Power (ICCEP 2009) Location: Capri, ITALY Date: JUN 09-11, 2009 2009 INTERNATIONAL CONFERENCE ON CLEAN ELECTRICAL POWER (ICCEP 2009), VOLS 1 AND 2 | wos10.xls | 3 | 6 | 2.5 |

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|----|--|---------------------------|---|---|-------------|
| 10 | Complete FPGA Based Real-Time Motor Drive Simulator With Bidirectional Battery And Ultracapacitor Power Supply By: Ruba, Mircea; Ciomei, Sorina; Hedesiu, Horia; et al. Conference: 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Bucharest, ROMANIA Date: MAR 23-25, 2017 Sponsor(s): Univ Politehnica Bucharest, Fac Elect Engr; IEEE 2017 10TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Book Series: International Symposium on Advanced Topics in Electrical Engineering Pages: 186-191 Published: 2017 | wos11.xls | 2 | 4 | 2.5 |
| 11 | USING CO-SIMULATIONS IN FAULT TOLERANT MACHINE'S STUDY By: Szabo, Lorand; Ruba, Mircea Conference: 23rd European Conference on Modelling and Simulation (ECMS) Location: Rey Juan Carlos Univ, Madrid, SPAIN Date: JUN 09-12, 2009, 23RD EUROPEAN | wos12.xls | 2 | 5 | 2 |
| 12 | Real-Time FPGA Model in the Loop Analysis of Permanent Magnet Synchronous Machine for LEV By: Ruba, Mircea; Hunor, Nagy; Hedesiu, Horia; et al. Conference: 9th International Conference and Exposition on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 20-22, 2016 Sponsor(s): IEEE Romania Sect; Georgeh Asachi Tech Univ Iasi, Fac Elect Engr; Grad Assoc Fac Elect Engr Iasi PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016) Book Series: International Conference and Exposition on Electrical and ON FAULT TOLERANCE INCREASE OF SWITCHED RELUCTANCE MACHINES | wos13.xls | 1 | 4 | 1.25 |
| 13 | By: Szabo, Lorand; Ruba, Mircea Conference: International IEEE Conference Devoted to the 150-Anniversary of Alexander S Popov Location: St Petersburg, RUSSIA Date: MAY 18-23, 2009 Sponsor(s): IEEE EUROCON 2009: INTERNATIONAL IEEE CONFERENCE DEVOTED TO THE 150 ANNIVERSARY OF ALEXANDER S. POPOV, VOLS.1- 4, PROCEEDINGS Pages: 734 + | wos14.xls | 4 | 2 | 10 |
| 14 | A Novel Design Conception of Switched Reluctance Motor for Electrical Vehicles By: Diko, Milan; Rafajdus, Pavol; Makys, Pavol; et al. Conference: ELEKTRO 10th International Conference Location: Rajecke Teplice, SLOVAKIA Date: MAY 19-20, 2014 Sponsor(s): Univ Zilina, Fac Elect Engr; AZD Praha s r o Praha CZ; LV EPI s r o Bratislava SK; SOITRON s r o Bratislava SK; Freescale Polovodice Ceska Republika s r o Roznov Radhostem CZ; Eltoda a s Praha CZ; Scheidt & Bachmann Slovensko s r o Zilina SK; ELMAX ZILINA a s Zilina SK; Panasonic Ind Devices Slovakia s r o Trstena SK; HUMUSOFT s r o Praha CZ; JOHNSON CONTROLS Lucenec s r o Odsteonv Zavod Namestovo SK; IEEE | wos15.xls | 3 | 6 | 2.5 |
| 15 | Design, analysis and torque control of low voltage high current SRM for small automotive applications By: Ruba, M.; Fodorean, D. Conference: IEEE EUROCON Conference Location: Zagreb, CROATIA Date: JUL 01-04, 2013 Sponsor(s): IEEE; IEEE Croatia Sect; IEEE Reg 8; FER 2013 IEEE EUROCON Pages: 1492-1497 Published: 2013 | wos16.xls | 3 | 2 | 7.5 |
| 16 | Comparative Study on Switched Reluctance Machine Based Fault-Tolerant Electrical Drive Systems By: Ruba, M.; Oprea, C.; Szabo, L. Conference: IEEE International Electric Machines and Drives Conference (IEMDC 2009) Location: Miami, FL Date: MAY 03-06, 2009, 2009 IEEE INTERNATIONAL ELECTRIC MACHINES & DRIVES CONFERENCE, VOL 5 1-3 Pages: 1-3 | wos17.xls | 3 | 3 | 5 |
| 17 | Simple converter structure for fault tolerant motors By: Szabo, L.; Ruba, M.; Fodorean, D. Conference: IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008) Location: Cluj Napoca, ROMANIA Date: MAY 22-25, 2008 Sponsor(s): IEEE Comp Soc, TTTC 2008 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL I, PROCEEDINGS | wos18.xls | 1 | 3 | 1.666666667 |
| 18 | Real-time simulation of scaled propulsion unit for light electric vehicles By: Nemes, Raul-Octavian; Ciomei, Sorina-Maria; Ruba, Mircea; et al. | wos19.xls | 2 | 4 | 2.5 |
| 19 | FPGA based real-time electric power assisted steering motor-drive simulator designed for HIL testing in the automotive industry By: Ruba, Mircea; Nemes, Raul; Martis, Claudia Conference: IEEE Vehicle Power and Propulsion Conference | wos20.xls | 2 | 3 | 3.333333333 |
| 20 | Design of Fault Tolerant Control Technique for SRM Drive By: Dubravka, Peter; Rafajdus, Pavol; Makys, Pavol; et al. Conference: 16th European Conference on Power Electronics and Applications (EPE-ECCE Europe) Location: Lappeenranta, FINLAND Date: AUG 26-28, 2014 2014 16TH EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS (EPE'14-ECCE EUROPE) Book Series: European Conference on Power Electronics and Applications Published: 2014 | wos21.xls | 2 | 7 | 1.428571429 |
| 21 | Design of Fault Tolerant Control Technique for SRM Drive By: Dubravka, Peter; Rafajdus, Pavol; Makys, Pavol; et al. Conference: 16th European Conference on Power Electronics and Applications (EPE-ECCE Europe) Location: Lappeenranta, FINLAND Date: AUG 26-28, 2014 2014 16TH EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS (EPE'14-ECCE EUROPE) Book Series: European Conference on Power Electronics and Applications Published: 2014 | wos22.xls | 1 | 2 | 2.5 |
| 22 | Direct Instantaneous Torque Controlled Modular Switched Reluctance Motor Designed for Automotive Applications By: Szabo, Lorand; Ruba, Mircea; Fodorean, Daniel; et al. Conference: ELEKTRO 10th International Conference Location: Rajecke Teplice, SLOVAKIA Date: MAY 19-20, 2014 ELEKTRO Pages: 239-244 Published: 2014 | wos23.xls | 2 | 5 | 2 |
| 23 | Modular Fault Tolerant Switched Reluctance Machine - Design and Dynamic Simulations By: Ruba, Mircea; Bentia, Ioana; Szabo, Lorand Conference: 12th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 20-21, 2010, Pages: 441-446 | wos24.xls | 2 | 3 | 3.333333333 |
| 24 | Integration of Real-Time Electric Power Steering System Matlab/Simulink Model into National Instruments VeriStand environment By: Nemes, Raul-Octavian; Ruba, Mircea; Martis, Claudia Conference: 18th IEEE International Power Electronics and Motion Control Conference (IEEE PEMC) Location: World | | 1 | 3 | 1.666666667 |
| | Motion Equations and Attitude Control in the Vertical Flight of a VTOL Bi-Rotor UAV By: Garcia-Nieto, Sergio; Velasco-Carrua, Jesus; Paredes-Valles, Federico; et al. ELECTRONICS Volume: 8 Issue: 2 Article Number: 208 Published: FEB 2019 | | | | |

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|--------------|---|--|---|---|----------------|
| 25 | Rapid Control Prototyping of a Speed Control Strategy for a Switched Reluctance Machine By: Nagy, Hunor; Ruba, Mircea; Hedesiu, Horia; et al. Conference: 9th International Conference and Exposition on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 20-22, 2016 | VMS Real-time Distributed Simulation System Design By: Wang, Dong; Pan, Quan; Hu, Junwen; et al. Conference: 13th IEEE International Conference on Control & Automation (ICCA) Location: Ohrid, MACEDONIA Date: JUL 03-06, 2017 Sponsor(s): IEEE 2017 13TH IEEE INTERNATIONAL CONFERENCE ON CONTROL & AUTOMATION (ICCA) Book Series: IEEE International Conference on Control and Automation ICCA Pages: 1054-1059 Published: 2017 | 1 | 4 | 1.25 |
| 26 | Analysis of synchronous reluctance machine for light electric vehicle applications By: Ruba, Mircea; Jurca, Florin; Martis, Claudia Conference: International Symposium on Power Electronics, Electrical Drives, Automation, and Motion (SPEEDAM) Location: Anacapri, ITALY Date: JUN 22-24, 2016 2016 INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION (SPEEDAM) Pages: 1138-1143 Published: 2016 | Synchronous reluctance machine geometry optimisation through a genetic algorithm based technique By: Ruba, Mircea; Jurca, Florin; Czumbil, Levente; et al. IET ELECTRIC POWER APPLICATIONS Volume: 12 Issue: 3 Pages: 431-438 Published: MAR 2018 | 1 | 3 | 1.66666667 |
| 27 | Development of a Complete Motor-Drive Solution for Light EV Based on a SRM By: Ruba, Mircea; Fodorean, Daniel Conference: 9th International Conference and Exposition on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 20-22, 2016 | Phase Current Reconstruction and Control of Three-Phase Switched Reluctance Machine With Modular Power Converter Using Single DC-Link Current Sensor By: Song, Shoujun; Xia, Zekun; Fang, Gaoliang; et al. IEEE TRANSACTIONS ON POWER ELECTRONICS Volume: 33 Issue: 10 Pages: 8637-8649 Published: OCT 2018 | 1 | 2 | 2.5 |
| 28 | Analysis of Permanent Magnet Synchronous Machine for Integrated Starter-Alternator Applications By: Jurca, Florin; Nicolae, Ruba, Mircea; Martis, Claudia Conference: Electrical Drives and Power Electronics (EDPE) Location: High Tatras, SLOVAKIA Date: SEP 21-23, 2015 | Comparison of management strategies for the charging schedule and all-electric operation of a plug-in hybrid-electric bi-articulated bus fleet By: Dreier, Dennis; Rudin, Bjorn; Howells, Mark PUBLIC TRANSPORT Volume: 12 Issue: 2 Pages: 363-404 Published: JUN 2020 Early Access: MAY 2020 | 1 | 3 | 1.66666667 |
| 29 | Design and testing a low-voltage high-current drive for SRMs used in light electric vehicles By: Chindris, V.; Ruba, M.; Fodorean, D. Conference: 16th International Power Electronics and Motion Control Conference and Exposition (PEMC) Location: Antalya, TURKEY Date: SEP 21-24, 2014 | Trial Manufacture of SRM Drive System for Electric Vehicles By: Luo, Junwen; Ohyama, Kazuhiro; Kenshiro, Iwanaga; et al. Conference: IEEE Conference on Industrial Electronics and Applications Location: Kota Kinabalu, MALAYSIA Date: NOV 20-22, 2016 | 1 | 3 | 1.66666667 |
| 30 | Fault Tolerant Bio-Inspired System Controlled Modular Switched Reluctance Machine By: Szabo, Lorand; Ruba, Mircea; Szasz, Csaba; et al. AUTOMATIKA Volume: 55 Issue: 1 Pages: 53-63 Published: JAN-MAR 2014 | Study on a Novel Fault Damage Degree Identification Method Using High-Order Differential Mathematical Morphology Gradient Spectrum Entropy By: Zhao, Huimin; Yao, Rui; Xu, Ling; et al. ENTROPY Volume: 20 Issue: 9 Article Number: 682 Published: SEP 2018 | 1 | 5 | 1 |
| 31 | Contributions to the Two Degrees of Freedom Modular Variable Reluctance Motors Used in Advanced Manufacturing Systems By: Szabo, Lorand; Benia, Ioana; Popa, Dan-Cristian; et al. Conference: IEEE International Conference on Automation, Quality and Testing, Robotics Location: Cluj Napoca | THEORETICAL AND EXPERIMENTAL STUDY OF A MODULAR TUBULAR TRANSVERSE FLUX RELUCTANCE MACHINE By: Popa, Dan-Cristian; Gliga, Vasile-Leon; Szabo, Lorand PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER Volume: 139 Pages: 41-55 Published: 2013 | 1 | 4 | 1.25 |
| 32 | Dual Motion Switched Reluctance Motor for Advanced Industrial Applications By: Szabo, Lorand; Benia, Ioana; Ruba, Mircea Conference: 13th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 24-26, 2012 | Design and 3D-FEM Analysis of a Rotary - Linear Switched Reluctance Motor By: Nezamabadi, M. M.; Afjei, E.; Naemi, M. R.; et al. Conference: International Symposium on Power Electronics, Electrical Drives, Automation, and Motion (SPEEDAM) Location: Anacapri, ITALY Date: JUN 22-24, 2016 | 1 | 3 | 1.66666667 |
| 33 | Dual Motion Switched Reluctance Motor for Advanced Industrial Applications By: Szabo, Lorand; Benia, Ioana; Ruba, Mircea Conference: 13th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 24-26, 2012 | Design and 3D-FEM Analysis of a Rotary - Linear Switched Reluctance Motor By: Nezamabadi, M. M.; Afjei, E.; Naemi, M. R.; et al. Conference: International Symposium on Power Electronics, Electrical Drives, Automation, and Motion (SPEEDAM) Location: Anacapri, ITALY Date: JUN 22-24, 2016 | 1 | 5 | 1 |
| 34 | USEFUL SOFTWARE TOOL FOR SIMULATING SWITCHED RELUCTANCE MOTORS By: Chindris, Virgil; Terec, Rares; Ruba, Mircea; et al. Conference: 25th European Conference on Modeling and Simulation (ECMS 2011) Location: Krakow, POLAND Date: JUN 07-10, 2011 | Software Environment for Online Simulation of Switched Reluctance Machines By: Chindris, Virgil; Terec, Rares; Ruba, Mircea; et al. ADVANCES IN INTELLIGENT MODELLING AND SIMULATION: SIMULATION TOOLS AND APPLICATIONS Book Series: Studies in Computational Intelligence Volume: 416 Pages: 85-109 Published: 2012 | 1 | 5 | 1 |
| 35 | Novel Modular Fault Tolerant Switched Reluctance Machine for Reliable Factory Automation Systems By: Ruba, M.; Benia, I.; Szabo, L. Conference: IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Location: Cluj Napoca, ROMANIA Date: MAY 28-30, 2010 | USEFUL SOFTWARE TOOL FOR SIMULATING SWITCHED RELUCTANCE MOTORS By: Chindris, V (Chindris, Virgil) [1]; Terec, R (Terec, Rares) [1]; Ruba, M (Ruba, Mircea) [1]; Szabo, L (Szabo, Lorand) [1]; Rafajdus, P (Rafajdus, Pavol) [2]. Edited by: Burczynski, T; Kolodziej, J; Byrski, A; Carvalho, M Pages: 216-221 Published: 2011 | 1 | 3 | 1.66666667 |
| Total | | | | | 319.679 |

3.2 Citări în revistele BDI și volumele conferințelor BDI**

| Nr. | Articol citat (autor, revistă/ volum conferință/ an / pagini) | Articol care citează (autor, revistă BDI / volum conferință BDI/ an / pagini) | Numar citari | Număr de autori ai articolului citat | Punctaj |
|--------------|---|---|--------------|--------------------------------------|-------------|
| 1 | Segmental Stator Switched Reluctance Machine for Safety-Critical Applications By: Szabo, Lorand; Ruba, Mircea IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 48 Issue: 6 Special Issue: SI Pages: 2223 - 2229 Published: NOV-DEC 2012 | scopus1.csv | 5 | 2 | 7.5 |
| 2 | Modular stator switched reluctance motor for fault tolerant drive systems By: Ruba, Mircea; Viorel, Ioan-Adrian; Szabo, Lorand IET ELECTRIC POWER APPLICATIONS Volume: 7 Issue: | scopus2.csv | 50 | 3 | 50 |
| Total | | | | | 57.5 |

3.3 Prezentări invitate în plenum unor manifestări științifice naționale și internaționale și Profesor invitat (exclusiv POS, ERASMUS)

| Nr. | Manifestarea științifică în cadrul căreia a fost prezentată lucrarea invitată / Universitatea unde s-a efectuat stagiul de profesor invitat | Locația și data desfășurării manifestării științifice / Perioada efectuării stagiului de profesor invitat | Dovada | Punctaj |
|--------------|---|---|---|-----------|
| 1 | EMR'19, * Modelling and control using EMR, application to HEVs and others* | Summer School of University of Lille (France) Lille, France, 17-19 June 2019 | http://www.emrwebsite.org/emr-19-program.html | 20 |
| Total | | | | 20 |

3.4 Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste/ manifestări științifice naționale și internaționale (punctajul se acordă pentru fiecare revistă, manifestare științifică și recenzie)

| Nr. | Manifestarea științifică sau organizator manifestare științifică sau recenzent lucrări revistă / manifestare | Denumire revistă/ manifestare științifică, ISSN | Anul | Dovada | Punctaj |
|-----|--|--|------|---------------------------------------|---------|
| 1 | Recenzor | INTERNATIONAL JOINT CONFERENCE OPTIM-ACEMP, ISSN:- | 2021 | ACCEPT OPTIM 2021.pdf | 10 |
| 2 | Recenzor | IEEE Transactions on Vehicular Technology, ISSN: 1939-9359 | 2020 | IEEE TTVT 2020.pdf | 10 |
| 3 | Recenzor | IEEE Vehicular Power and Propulsion Conference, VPPC, ISSN : 1938-8756 | 2019 | VPPC2019.pdf | 10 |
| 4 | Recenzor | IEEE Vehicular Technology Magazine, ISSN: 1556-6080 | 2019 | IEEE VTS # 2019.pdf | 10 |
| 5 | Recenzor | IEEE Vehicular Technology Magazine, ISSN: 1556-6080 | 2019 | IEEE VTS 2019.pdf | 10 |
| 6 | Recenzor | IEEE Transactions on Industry Applications, ISSN: 1939-9367 | 2019 | IEEE TIAS 2019.pdf | 10 |
| 7 | Recenzor | IEEE Access, ISSN: 2169-3536 | 2019 | IEEE ACCESS 2019.pdf | 10 |
| 8 | Recenzor | Electrical Engineering, ISSN: 1432-0487 | 2019 | ELEN # 2019.pdf | 10 |
| 9 | Recenzor | Electrical Engineering, ISSN: 1432-0487 | 2019 | ELEN # 2019.pdf | 10 |
| 10 | Recenzor | IEEE Transactions on Industrial Electronics, ISSN: 0278-0046 | 2018 | IEEE TIND 2018.pdf | 10 |
| 11 | Recenzor | IEEE Transactions on Power Electronics, ISSN: 1941-0107 | 2018 | IEEE TPEL 2018.pdf | 10 |
| 12 | Recenzor | IEEE Transactions on Industry Applications, ISSN: 1939-9367 | 2018 | IEEE TIAS 2018.pdf | 10 |
| 13 | Recenzor | IEEE Vehicular Power and Propulsion Conference, VPPC, ISSN : 1938-8756 | 2017 | VPPC2017.pdf | 10 |
| 14 | Recenzor | IEEE Transactions on Industrial Electronics, ISSN: 0278-0046 | 2017 | IEEE TIND # 2017.pdf | 10 |
| 15 | Recenzor | IEEE Transactions on Industrial Electronics, ISSN: 0278-0046 | 2017 | IEEE TIND # 2017.pdf | 10 |
| 16 | Recenzor | IEEE Transactions on Industrial Electronics, ISSN: 0278-0046 | 2017 | IEEE TIND 2017.pdf | 10 |
| 17 | Recenzor | IEEE Transactions on Power Electronics, ISSN: 1941-0107 | 2017 | IEEE TPEL 2017.pdf | 10 |

| | | | | | |
|--------------|----------|--|------|---------------------------------------|------------|
| 18 | Recenzor | International Transactions on Electrical Energy Systems, ISSN: 2050-7038 | 2017 | ETEP 2017.pdf | 10 |
| 19 | Recenzor | Progress in Electromagnetic Research PIER, ISSN: 1070-4698 | 2016 | PIER 2016_11.pdf | 10 |
| 20 | Recenzor | Progress in Electromagnetic Research PIER, ISSN: 1070-4698 | 2016 | PIER 2016_11.pdf | 10 |
| 21 | Recenzor | IET Electric Power Applications, ISSN 1350-2352 | 2016 | IET_EPA_2016.pdf | 10 |
| 22 | Recenzor | IEEE Transactions on Industrial Electronics, ISSN: 0278-0046. | 2016 | IEEE_T_IND_2016.pdf | 10 |
| 23 | Recenzor | IEEE Transactions on Magnetics, ISSNs 0018-9464 | 2016 | IEEE_T_MAG_2016.pdf | 10 |
| 24 | Recenzor | Annual IEEE Conference on Industrial Technology (ICIT 2017), ISBN: 978-1-5396-5320-9 | 2016 | ICIT2017.pdf | 10 |
| 25 | Recenzor | European Transactions on Electrical Power, ISSN: 1546-3109 | 2016 | ETEP_2016.pdf | 10 |
| 26 | Recenzor | International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, ISSN: 1099-1204 | 2016 | Modelling_2016.pdf | 10 |
| 27 | Recenzor | Progress in Electromagnetic Research PIER, ISSN: 1070-4698 | 2015 | PIER_2015_11.pdf | 10 |
| 28 | Recenzor | Progress in Electromagnetic Research PIER, ISSN: 1070-4698 | 2015 | PIER_2015_11.pdf | 10 |
| 29 | Recenzor | MDPI SENSORS, ISSN 1424-8220 | 2015 | MDPI_sensors_2015.pdf | 10 |
| 30 | Recenzor | IET Generation, Transmission & Distribution, ISSN 1350-2360 | 2015 | IET_GEN_2015.pdf | 10 |
| 31 | Recenzor | IET Electric Power Applications, ISSN 1350-2352 | 2015 | IET_2015.pdf | 10 |
| Total | | | | | 310 |

3.5 Referent in comisia de doctorat

| Nr. | Universitatea / IOSUD care a făcut numirea ca referent in Comisia de doctorat | Autorul, titlul și data susținerii publice a tezei de doctorat, pentru care a fost numit ca referent in Comisia de doctorat | de | Dovada | Punctaj |
|--------------|---|---|----|--------|---------|
| 1 | | | | | |
| Total | | | | | |

3.6 Premii

| Nr. | Anul | Premiul | Dovada | Punctaj | |
|--------------|------|--|--|---------|------------|
| 1 | 2021 | Dipooma de excelența și medalia de aur - Salonul internațional al cercetării științifice, inovării și invenției PROINVENT, Cluj Napoca | proinvent2021.pdf | 10 | |
| 2 | 2021 | Medalia de aur - Salonul internațional de invenții și inovații Traian Vuia, Timisoara | TraianVuia2021.pdf | 10 | |
| 3 | 2021 | Diploma de onoare și medalia de aur, Salonul Internațional INVENTICA, Iasi, Romania | inventica2021.pdf | 10 | |
| 4 | 2021 | Medalia de aur, Salonul Internațional EuroInvent, Iasi, Romania | euroinvent2021.pdf | 10 | |
| 5 | 2020 | Medalia de excelența, Salonul Internațional INVENTICA, Iasi, Romania | inventica2020_1.pdf | 10 | |
| 6 | 2020 | Medalia de excelența, Salonul Internațional INVENTICA, Iasi, Romania | inventica2020.pdf | 10 | |
| 7 | 2020 | Dipooma de excelența și medalia de aur - Salonul internațional al cercetării științifice, inovării și invenției PROINVENT, Cluj Napoca | proinvent2020_1.pdf | 10 | |
| 8 | 2020 | Medalia de argint - Salonul internațional de invenții și inovații Traian Vuia, Timisoara | TraianVuia2020_1.pdf | 10 | |
| 9 | 2020 | Dipooma de excelența și medalia de aur - Salonul internațional al cercetării științifice, inovării și invenției PROINVENT, Cluj Napoca | proinvent2020.pdf | 10 | |
| 10 | 2020 | Medalia de aur - Salonul internațional de invenții și inovații Traian Vuia, Timisoara | TraianVuia2020.pdf | 10 | |
| 11 | 2019 | International student inovation and scientific reseach exhibition - Cadet INOVA21 | CadetInova2021.pdf | 10 | |
| 12 | 2019 | Medalia de bronz, Salonul Internațional EuroInvent, Iasi, Romania | Euroinvent2019-2.pdf | 10 | |
| 13 | 2019 | Medalia de argint, Salonul Internațional EuroInvent, Iasi, Romania | Euroinvent2019-1.pdf | 10 | |
| 14 | 2019 | Medalia de aur, Salonul Internațional PROINVENT, Cluj Napoca, Romania | Proinvent2019-2.pdf | 10 | |
| 15 | 2019 | Medalia de aur, Salonul Internațional PROINVENT, Cluj Napoca, Romania | Proinvent2019-1.pdf | 10 | |
| 16 | 2019 | Diploma de excelența, Expoziția Internațională specializată INFOINVENT, Chisinau, Moldova | FitoTehnic2019.pdf | 10 | |
| 17 | 2019 | Medalia de aur, Expoziția Internațională specializată INFOINVENT, Chisinau, Moldova | Infoinvent2019-AUR.pdf | 10 | |
| 18 | 2019 | Medalia de bronz, Expoziția Internațională specializată INFOINVENT, Chisinau, Moldova | infoinvent-20019-bronz.pdf | 10 | |
| 19 | 2019 | Medalia de excelența, Salonul Internațional INVENTICA, Iasi, Romania | inventica2019_2.pdf | 10 | |
| 20 | 2019 | Medalia de excelența, Salonul Internațional INVENTICA, Iasi, Romania | inventica2019_1.pdf | 10 | |
| 21 | 2016 | Medalia de aur, Salonul Internațional PROINVENT, Cluj Napoca, Romania | proinvent2016.pdf | 10 | |
| 22 | 2016 | Medalia de aur, Salonul Internațional EuroInvent, Iasi, Romania | Euroinvent2016.pdf | 10 | |
| 23 | 2015 | Medalia de excelență și aur, Salonul Internațional PROINVENT, Cluj Napoca, Romania | Proinvent2015.pdf | 10 | |
| 24 | 2015 | IET-EPA premium award for "Modular statolr switched reluctance motor for fault tolerant drive systems", volume 7, issue 3, 2013, p.159-169 | DiplomaIET2015.pdf | 10 | |
| 25 | 2015 | Medalia de aur, Salonul Internațional de invenții, cercetare științifică și tehnologii noi, Iasi, Romania | Diploma_Inventica_2015.jpg | 10 | |
| 26 | 2013 | Medalia de excelență și aur, Salonul Internațional PROINVENT, Cluj Napoca, Romania | Diploma ProInvent2013.PDF | 10 | |
| 27 | 2012 | Medalia de excelență și bronz, Salonul Internațional PROINVENT, Cluj Napoca, Romania | Diploma PROINVENT 2012.pdf | 10 | |
| 28 | 2011 | Diploma de onoare, Salonul Internațional de invenții, cercetare științifică și tehnologii noi, Iasi, Romania | Diploma INVENTICA 2011.PDF | 10 | |
| 29 | 2011 | Medalia de argint, Salonul Internațional EuroInvent, Iasi, Romania | Diploma EuroInvent 2011.PDF | 10 | |
| 30 | 2010 | Medalia de aur, Salonul Internațional PROINVENT, Cluj Napoca, Romania | Diploma ProInventica2010.jpg | 10 | |
| 31 | 2010 | Medalia de argint, Salonul Internațional IWIS, Varsovia, Polonia | DiplomaVarsovia2010.PDF | 10 | |
| 32 | 2010 | Medalia de bronz, Salonul Internațional INVENTIKA, Bucuresti, Romania | DiplomaINVENTIKA2010.PDF | 10 | |
| Total | | | | | 310 |

3.7 Membru in academie, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării științifice

| Nr. | prestigiu/ organizația din domeniul educației și cercetării | Dovada | Punctaj |
|--------------|---|--------------------------------|-----------|
| 1 | Membru VPP | VPPmember.pdf | 5 |
| 2 | Membru IEEE | IEEEmember.PDF | 5 |
| Total | | | 10 |