

## Departamentul de Masurari, Aparate Electrice si Convertoare Statice - MAECS

### Proiecte de cercetare

Nr . crt .	Centru	Denumire	Site web	Responsabil/ Director de proiect	Program de cercetare/Beneficiar	Durata	Parteneri in cadrul contractului
1	CMIM	Contor inteligent bazat pe evaluarea semnaturii energetie (SIGMET)	<a href="http://iota.ee.tuiasi.ro/~SigMET/">http://iota.ee.tuiasi.ro/~SigMET/</a>	Prof.dr.ing. Costin CEPISCA	PARTENERIATE ÎN DOMENII PRIORITYARE	02.07.2012 - 30.06.2016	CO: Universitatea Tehnica Gheorghe Asachi - Iasi P1: RomSoft S.R.L. P3: S.C. Electra SRL
2	CMIM	Lansator electromagnetic pentru stingerea incendiilor violente din foraj și lansării dronelor pentru investigații sau intervenții ( <i>LESI</i> )	<a href="https://sites.google.com/site/proiectlesi/">https://sites.google.com/site/proiectlesi/</a>	Prof.dr.ing. Sorin Dan Grigorescu	PARTENERIATE ÎN DOMENII PRIORITYARE	17,09,2014 - 20,06,2016	P1: INSTITUTUL DE STATISTICA MATEMATICA SI MATEMATICA APLICATA AL ACADEMIEI ROMANE GHEORGHE MIHOC - CAIUS IACOB P2: ICPE ACTEL S.A.
3	CMIM	Sistem integrat de monitorizare si control pentru estimarea completa in timp real a starii functionale a ansamblului retelelor electrice (SIMCEC)	-	Sl.dr.ing. Sanda Victorinne PATURCA	PARTENERIATE ÎN DOMENII PRIORITYARE	10,09,2014 - 30,06,2016	CO: NOVA INDUSTRIAL S.A.
4	CCSAE	Un nou contactor de joasa tensiune, cu comutatie in vid, tip compact – NeWaLC, contract nr.34/2012	<a href="https://sites.google.com/site/proiectnewalc/Project-NeWaLC">https://sites.google.com/site/proiectnewalc/Project-NeWaLC</a>	Prof.Dr.Ing. Dan PAVELESCU	PN-II-PT-PCCA	47 luni (07.2012-05.2016)	P1: SC. ICPE SA.; P2: Inst. National pentru Optoelectronica INOE 2000; P3: SC. ICPE CA SA.; P4: SC. MEDAPTEH SRL.

5	CCSAE	Sistem hibrid de energie regenerabila bazat pe turbina eoliana cu ax vertical cu panouri fotovoltaice integrate si suspensie magnetica - WIPHRES, contract nr.40/2012	<a href="http://www.ima.ro/PNII_programme/PCCA-40/wiphres.htm">http://www.ima.ro/PNII_programme/PCCA-40/wiphres.htm</a>	Prof.Dr.Ing. Claudia POPESCU	PN-II-PT-PCCA	48 luni (07.2012-07.2016)	CO: Institutul de Statistica Matematica si Matematica Aplicata "Gheorghe Mihoc – Caius Iacob"; P1: SC AEROSTAR SA;
6	CCSAE	Platforma virtuala de e-learning bazata pe aplicatii 3D utilizabila in protetica dentara - VIRPRO, contract nr.342/2014	-	Conf.Dr.Ing. George Calin SERITAN	PN-II-PT-PCCA	24 luni (07.2014-06.2016)	CO: Univ.de Medicina si Farmacie - Carol Davila; P2: SC AVITECH CO SRL; P3: SC Wing Computer SRL;
7	-	Platformă tehnologică inovativă de realitate augmentată pentru inspecții, mentenanță și service în teren la infrastructuri critice	<a href="http://www.crevis.ro">www.crevis.ro</a>	Prof. dr. ing. Sorin Dan Grigorescu	POS CCE	20 luni (10.04.2014-10.12.2015)	SC SUNSMART INTEGRARE IT SRL, AVITECH CO, 2K TELECOM
8	-	Platformă de bio-monitorizare a parametrilor vitali în operarea infrastructurilor critice	<a href="http://www.crevis.ro">www.crevis.ro</a>	Prof. dr. ing. Costin Cepisca	POS CCE	20 luni (10.04.2014-10.12.2015)	SC ASESOFTECHNOLOGIES SRL, SC ASESOFTEINTERNATIONAL SRL, SC WING COMPUTER GROUP SRL
9	-	Realizarea unei platforme tehnologice inovative bazata pe aplicatii de realitate virtuala pentru siguranta si protectia personalului din infrastructurile critice	<a href="http://www.crevis.ro">www.crevis.ro</a>	Prof. dr. ing. Sorin Dan Grigorescu	POS CCE	20 luni (10.04.2014-10.12.2015)	SC APTUS SOFTWARE SLR, SC AVITECH CO SRL, TEAMNET INTERNATIONAL SA
10	MicroDERLab	Rețele active de distributie. Identificarea parametrilor de model si analiza functionarii cu PMU	<a href="http://activedgmodel.microderlab.pub.ro/">http://activedgmodel.microderlab.pub.ro/</a>	Prof.dr.ing. Mihaela Albu	IDEI Competitia 2011 (UEFISCDI)	01.01.2012-15.12.2015	N/A

11	MicroDERLab	SYNCPower - „Synchronized measurement technology for higher degree of monitoring and control in the power systems of Cyprus and Romania”	<a href="http://www.kios.cy.ac.cy/research/research-projects/242-synpower-new-research-project-for-reliable-and-uninterruptible-operation-of-power-systems.html">http://www.kios.cy.ac.cy/research/research-projects/242-synpower-new-research-project-for-reliable-and-uninterruptible-operation-of-power-systems.html</a>	Prof.dr.ing. Mihaela Albu	Capacități - Cooperare bilaterala (UEFISCDI)	01.03.2014-30.11.2015	Kios Research Center - University of Cyprus
12	MicroDERLab	‘Flexible smart metering for multiple energy vectors with active prosumers — FLEXMETER’		Sl.dr.ing. Ana-Maria Dumitrescu	H2020-LCE2014-2015	01.01.2015-31.12.2017	<ul style="list-style-type: none"> <li>•Politecnico di Torino, Italy;</li> <li>•IREN ENERGIA SPA,</li> <li>•STMICROELECTRONICS SRL,</li> <li>•TELECOM ITALIA S.p.A,</li> <li>•RWTH AACHEN, •INSTITUT POLYTECHNIQUE DE GRENOBLE, •SIVICO ROMANIA SA, •ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA,</li> <li>•E.ON SVERIGE AB, •Joint Research Centre - Bruxelles</li> </ul>

### Publicatii

Nr. crt.	Centru	Denumire	Autori	Revista
1	CMIM	Analysis of the state of charge of rechargeable DC sources to optimize their embedded control systems	Costin Cepisca	<i>U.P.B. Sci. Bull., Series C, Vol. 76, Iss. 1, 2014, pp.197- 208, ISSN 2286-3540</i>
2	CMIM	The identification of artifacts in ECG signal acquisition process	Costin Cepisca	<i>Scientific Bulletin of Electrical Engineering Faculty, year 14, no,1 (25) pp.54-58, ISSN 1843-6188</i>

3	CCSAE	Nanostructured W-Cu electrical contact materials processed by hot isostatic pressing	Violeta Tsakiris, Magdalena Lungu, Elena Enescu, Dan Pavelescu, Gheorghe Dumitrescu, Alexandru Radulian, Nicolae Mocioi	Acta Physica Polonica A, Vol 125 (2014), No. 2, p. 348-352, ISSN:1898-794X
4	CCSAE	Development of W-Cu-Ni electrical contact materials with enhanced mechanical proprieties by spark plasma sintering process	Magdalena Lungu, Violeta Tsakiris, Elena Enescu, Delia Patroi, Virgil Marinescu, Dorinel Talpeanu, Dan Pavelescu, Gheorghe Dumitrescu, Alexandru Radulian	Acta Physica Polonica A, Vol 125 (2014), No. 2, p. 327-330, ISSN: 1898-794X
5	CCSAE	Numerical modelling of an Electromagnetic Actuator for Vacuum Contactors (ID 533)	Alexandru Radulian, Nicolae Mocioi	2014 International Conference and Exposition on Electrical and Power Engineering (EPE), 16-18 octombrie 2014, Iasi – Romania
6	CCSAE	Camera de stingere a arcului electric in vid cu contacte electrice normal deschise	Alexandru Radulian	OSIM A/00642/21.08.14
7	CCSAE	Numerical Investigations of Dynamic Stall Control	Frunzulica Florin, Dumitrescu Horia, Dumitrache Alexandru	INCAS Bulletin, ISSN:2066-8201
8	CCSAE	Investigations of Passive Flow Control Devices for Vertical Axis Wind Turbine	Frunzulica Florin, Dumitrescu Horia, Dumitrache Alexandru	Proceeding of Applied Mathematics and Mechanics, ISSN: 1617-7061
9	CCSAE	Comparison of Artificial Bee Colony Algorithm with other Algorithms used for Tracking of Maximum Power Point of Photovoltaic Arrays	Bilal Babar, Aurelian Crăciunescu	Renewable Energy and Power Quality Journal (RE&PQJ). ISSN 2172-038 X, No.12, April 2014
10	CCSAE	Wind Tunnel Experiments on H-rotor VAWTs with Straight Blades	H. Dumitrescu, A. Dumitrache, C. L. Popescu, M. O. Popescu, F. Frunzulică, A. Crăciunescu	Renewable Energy and Power Quality Journal (RE&PQJ). ISSN 2172-038 X, No.12, April 2014
11	CCSAE	Numerical Investigations of Passive Flow Control Elements on the Vertical Axis Wind Turbine	Frunzulica Florin, Dumitrache Alexandru, Suatean Bogdan	ICNPAA 2014 Congress: Mathematical Problems in Engineering Aerospace and Sciences, Narvik, Norvegia, 15-18 iulie 2014. AIP Conference Proceedings 1637, 331-339 (2014) ISBN 978-0-7354-1276-7

12	CCSAE	The Use of Experimental Design to Find the Operating Maximum Power Point of PEM Fuel Cells	Craciunescu Aurelian, Patularu Laurentiu, Ciumbulea Gloria, Olteanu Valentin, Pitorac Cristina, Drugan Elena	ICNAAM, 12TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS, Rodos, Grecia, 22-28 Septembrie 2014
13	CCSAE	The Analyze of the Dynamic Performances of Two Maximum Power Point Tracking Algorithms for Photovoltaic Systems	Craciunescu Aurelian, Popescu Claudia Laurenta, Popescu Mihai Octavian, Florea Marin Leonard, Elena Drugan, Colt Gabriel	ICNAAM, 12TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS, Rodos, Grecia, 22-28 Septembrie 2014
14	CCSAE	Numerical Investigations on Dynamic Stall Control with Passive Elements	Frunzulica Florin, Dumitrache Alexandru, Suatean Bogdan	ICNAAM, 12TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS, Rodos, Grecia, 22-28 Septembrie 2014
15	CCSAE	Comparison of Artificial Bee Colony Algorithm with other Algorithms used for Tracking of Maximum Power Point of Photovoltaic Arrays	Bilal Babar, Aurelian Crăciunescu	International Conference on Renewable Energies and Power Quality (ICREPQ'14), Cordoba (Spain), 8-10 April, 2014. Renewable Energy and Power Quality Journal (RE&PQJ). ISSN 2172-038 X, No.12, April 2014
16	CCSAE	Wind Tunnel Experiments on H-rotor VAWTs with Straight Blades	H. Dumitrescu, A. Dumitrache, C. L. Popescu, M. O. Popescu, F. Frunzulică, A. Crăciunescu	International Conference on Renewable Energies and Power Quality (ICREPQ'14), Cordoba (Spain), 8-10 April, 2014. Renewable Energy and Power Quality Journal (RE&PQJ). ISSN 2172-038 X, No.12, April 2014