



Curriculum Vitae Europass

Informații personale

NICULAE Dragos

Nume / Prenume	(birou) Spl. Independentei, nr.313, FIE, sala EB 235, sect.6, Bucuresti (România)		
Adresa(e)	0214029221	Mobil	
Telefon(oane)	dragos.niculae@upb.ro		
E-mail(uri)	romana		
Naționalitate(-tăți)			
Data nașterii	Bărbătesc		
Sex			

Experiența profesională

Perioada	Oct 2007 → prezent
Funcția sau postul ocupat	Asistent universitar, Sef de Lucrari, Conferentiar
Activități și responsabilități principale	Activitati didactice: conducere cursuri, seminarii si laboratoare la disciplinele Bazele Electrotehnicii, Teoria Circuitelor Electrice, Informatica aplicata, Electrotehnica, activitati de cercetare stiintifica si conducere proiecte de diploma.
Numele și adresa angajatorului	Universitatea Națională de Știință și Tehnologie POLITEHNICA Bucuresti, Facultatea de Inginerie Electrica Spl. Independentei, nr.313, Bucuresti (Romania)
Tipul activității sau sectorul de activitate	Invatamant superior si cercetare stiintifica
Perioada	Oct 2006 - Oct 2007
Funcția sau postul ocupat	Asistent cercetare
Activități și responsabilități principale	Elaborare programe de calcul numeric al campului electromagnetic.
Numele și adresa angajatorului	Unversitatea POLITEHNICA Bucuresti, Centrul de Inginerie Electrica Asistata de Calculator spl. Independentei, nr. 313, Bucuresti (Romania)
Tipul activității sau sectorul de activitate	Cercetare stiintifica
Perioada	Sept 2002 - Sept 2005
Funcția sau postul ocupat	Inginer proiectant

Activități și responsabilități principale	Proiectare lucrări de energo-alimentare, posturi de transformare, comanda separatoarelor, protecția instalațiilor din cale și vecinătate.
Numele și adresa angajatorului	Institutul de Studii și Proiectări Cai Ferate SA Bd. Dinicu Golescu, București (Romania)
Tipul activității sau sectorul de activitate	Proiectare
Perioada	mai 2016 → mai 2024
Funcția sau postul ocupat	Decan
Activități și responsabilități principale	Management, studii universitare
Numele și adresa angajatorului	Universitatea Națională de Știință și Tehnologie POLITEHNICA București, Facultatea de Inginerie Electrică, Spl. Independentei, nr.313, București (Romania)
Tipul activității sau sectorul de activitate	Conducere
Perioada	Apr 2012 → mai 2016
Funcția sau postul ocupat	Prodecan
Activități și responsabilități principale	Studii universitare de licență. Coordonare programe educaționale. Resurse umane.
Numele și adresa angajatorului	Universitatea POLITEHNICA București, Facultatea de Inginerie Electrică Spl. Independentei, nr.313, București (Romania)
Tipul activității sau sectorul de activitate	Conducere

Educație și formare

Perioada	2002 - 2006
Calificarea/diploma obținută	Diploma de Doctor în domeniul Inginerie Electrică
Disciplinele principale studiate/competențele profesionale dobândite	Diagnosticarea circuitelor electrice, analiza topologică a circuitelor electrice, simularea și modelarea numerică a circuitelor electrice.
Numele și tipul instituției de învățământ/furnizorului de formare	Universitatea POLITEHNICA București, Facultatea de Inginerie Electrică
Perioada	1997 - 2002
Calificarea/diploma obținută	Diploma de Inginer Diplomat în Electrotehnică
Disciplinele principale studiate/competențele profesionale dobândite	Algebra și analiza matematică, Bazele Electrotehnicii, Teoria Campului Electromagnetic, Teoria Circuitelor Electrice, Metode Numerice, Teoria Sistemelor, Limbaje de programare, Desen tehnic, etc. (media anilor de studiu 9,72 - șef de promoție al facultății)
Numele și tipul instituției de învățământ/furnizorului de formare	Universitatea POLITEHNICA București, Facultatea de Electrotehnică (Romania)

Aptitudini și competențe personale

Limba maternă **Romana**

Limbi străine cunoscute

Autoevaluare
Nivel european (*)

Engleza

Franceza

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral			
B2	Utilizator independent	B2	Utilizator independent	B1	Utilizator independent	B1	Utilizator independent	B2	Utilizator independent
B2	Utilizator independent	B2	Utilizator independent	B1	Utilizator independent	B1	Utilizator independent	B2	Utilizator independent

(*) [Cadrului european comun de referință pentru limbi](#)

Competențe și abilități sociale	Abilitati de a lucra in echipa, de socializare, de reprezentare, de comunicare.
Competențe și aptitudini organizatorice	Aptitudini de conducator si organizator (conducere diverse proiecte de diploma, conducere si indrumare studenti in cadrul sesiunilor de comunicari stiintifice, coordonare proiecte de cercetare nationale, membru in echipe de cercetare in proiecte nationale si internationale).
Competențe și aptitudini tehnice	Proiectare si analiza CAD a dispozitivelor electromagnetice si a circuitelor electrice. Lucrari de bricolaj.
Competențe și aptitudini de utilizare a calculatorului	Limbaje de programare C/C++, Visual Basic, aplicatii MSOffice, HTML, MySQL, grafica AutoCAD, Photoshop, utilizare programe de specialitate Matlab, Simulink, PSpice, Maple.
Alte competențe și aptitudini	Referent stiintific la Revue Roumaine des Sciences Techniques, Buletinul UPB, Analele Universitatii Craiova si diverse conferinte internationale (ATEE, ICATE, MPS etc). Membru IEEE Conducere si membru in echipele de cercetare la mai multe proiecte nationale si internationale de cercetare in domeniul inginerie electrica (PN III P2 112/01.11.2016 Nr.81BG/2016 - director de proiect, CNCISIS contract nr 40528/05.11.2003 - membru echipa cercetare, CEEX modul I, contract nr. 258/11.09.2006 - membru echipa cercetare, FP6 IST/027368 - membru echipa cercetare). Autor si coautor a peste 90 de articole stiintifice in reviste si proceeding-uri ale conferintelor nationale si internationale si cu peste 500 de citari ale acestora. Absolvire curs postuniversitar "Auditori interni" UPB - 2012 Absolvire curs postuniversitar "Manager de proiect" - certificat Ministerul Muncii si Justitiei sociale - 2021 Absolvire curs postuniversitar "Dezvoltare personala pentru educatie incluzivala nivelul comunitatilor academice" - certificat Academia Română - 2023. Absolvire curs postuniversitar "Utilizarea instrumentelor digitale in abordarea pedagogica inovativa a instruirii" - certificat UNSTPB - 2023. 2025 - conducator de doctorat - domeniul inginerie electrica
Permis de conducere	B
Informații suplimentare	- 2002 bursa de 4 luni pentru pregatirea proiectului de diploma, in Franta, la LEEI, ENSEEIHT, Toulouse. - Certificat mobilitate Erasmus - 2019 IUT d Angouleme. - Certificat de competență lingvistică - UPB 2021. - 2012- 2018 membru în Consiliul Departamentului de Electrotehnică - 2012-prezent membru în Consiliul Facultății de Inginerie Electrică, membru în Biroul executiv al Facultății de Inginerie Electrică. - 2016-2024 membru în Consiliul de Administratie al UNSTPB.

Data 09.10.2025

Semnatura
Niculae Dragoș

Lista lucrari
Dragos NICULAE
01 octombrie 2025

TEZA DE DOCTORAT

A1. Dragoș NICULAE, "Contribuții la diagnosticarea circuitelor electrice", teza de doctorat, U.P.B. București, **2006**.

CARTI

- Carti internationale cu ISBN/ capitole ca autor, didactice sau monografii

C1. Mihai Iordache, Lucia Dumitriu, **Dragoș NICULAE**, Georgiana Zainea - Capitolul "Power Transfer by Magnetic Induction", în cartea "Wireless Power Transfer", River Publishers , Aalborg Denmark, 2012, pp. 1 – 35, ISBN 978-87-92329-23-3, **WOS: 000354719400002**.

C2. Mihai Iordache, Lucia Dumitriu, **Dragoș NICULAE**, - Capitolul "Power Transfer by Magnetic Induction Using Coupled-Mode Theory", în cartea "Wireless Power Transfer 2nd edition", River Publishers volume 45, Aalborg Denmark, **2016**, pp. 1 – 71, ISBN 978-87-93237-62-9, **WOS: 000382474900002**.

C3. Mihai Iordache, Lucia Dumitriu, **Dragoș NICULAE**, Marilena Stanculescu, Victor Bucata, Georgiana Razmerita – Capitolul "Circuit Analysis with nullors", in cartea "Pathological Elements in Analog Circuit Design", Springer U.S., 2018, pg. 91-147, ISBN 978-3-319-75157-3; 978-3-319-75156-6, ISSN 1876-1100, **WOS:000441385600014**.

C4. Lavinia Bobaru, Mihai Iordache, Marilena Stanculescu, **Dragoș NICULAE**, Sorin Deleanu, Horia Andrei – Capitolul "Optimization Methods for Wireless Power Transfer" si Capitolul "Optimal Integration of Electric Vehicles in Smart Grid Energy Flow", in cartea "Numerical Methods for Energy Applications", Springer Power Systems, 2021, pg. 513-545, 579-621, ISSN: 1612-1287.

- Carti nationale cu ISBN/ capitole ca autor, didactice sau monografii

I1. Dragoș NICULAE, Catalina POPESCU, Andrei ILIE, D. DONCESCU, Olivian STANICA – „Teoria circuitelor electrice. Culegere de probleme”. Editura MATRIX ROM, Bucuresti, **2007**, pg.210, ISBN 978-973-755-201-3.

C5. Mihai IORDACHE, Lucian MANDACHE, **Dragos NICULAE** – „Analiza asistata de calculator a senzitivitatilor si tolerantelor circuitelor analogice”. Editura MATRIX ROM, Bucuresti, **2010**, pg.380, ISBN 978-973-755-583-0.

C6. Aureliu PANAITESCU, **Dragos NICULAE** – „Bazele Electrotehnicii”. Editura MATRIX ROM, Bucuresti, **2014**, pg. 420, ISBN 978-606-25-0071-9.

I2. Dragos NICULAE, Lavinia BOBARU, Marilena STANCULESCU, Victor BUCATA, Mihai IORDACHE, Steliana PUSCASU – „Indrumar de seminar. Teoria circuitelor electrice. Curent continuu, curent alternativ”. Editura PRINTECH, Bucuresti, **2020**, pg. 110, ISBN 978-606-23-1066-0.

C7. Mihai IORDACHE, Marilena STANCULESCU, Lavinia BOBARU, **Dragos NICULAE**, Sorin DELEANU, Victor BUCATA – „Sisteme de transfer wireless al energiei electromagnetice”. Editura MATRIX ROM, Bucuresti, **2021**, pg. 140, ISBN 978-606-25-0623-0.

C8. Marilena STANCULESCU, Razvan ASANACHE, Lavinia BOBARU, Sorin DELEANU, **Dragos NICULAE**, Georgiana REZMERITA, Mihai IORDACHE – „Analiza circuitelor analogice utilizand parametrii S si diagrama Smith”. Editura MATRIX ROM, Bucuresti, **2022**, pg. 274, ISBN 978-606-25-0771-8.

C9. Mihai IORDACHE, **Dragos NICULAE**, Marilena STANCULESCU, Lavinia BOBARU, Georgiana REZMERITA, – „Utilizarea parametrilor patologici în analiza circuitelor analogice”. Editura MATRIX ROM, Bucuresti, **2024**, pg. 250, ISBN 978-606-25-0862-3.

ARTICOLE

Lucrari publicate în reviste ISI

Ris1. Mihai Iordache, Lucia Dumitriu, **Dragoş NICULAE** - “A new generalised hybrid method for nonlinear analog circuit analysis”, Rev. Roum. Sci. Techn.- Électrotechn. et Énerg., Tome 53, No. 4, Bucharest , **2008**, pp. 393-401, ISSN 0035-4066, **WOS:000262136600004**.

Ris2. Dragoş NICULAE - “Fault diagnosis in analog circuits based on parametric deviation of components computation” – UPB, Sci.Bul. Vol. 70, Issue 2, Bucharest, **2008**, pp. 83-90, ISSN 2286-3540, eISSN 2286-3559, **WOS:000421602400008**.

Ris3. N. Voicu, Lucia Dumitriu, M. Iordache, **Dragoş NICULAE** - “Modeling of the Induction Motor Ventilation by Electric Circuits”, U.P.B. Sci. Bull. Series C, Vol. 71, Issue 4, Bucharest, **2009**, pp. 175-182, ISSN 2286-3540, eISSN 2286-3559, **WOS:000421636000015**.

Ris4. Marilena Stanculescu, Mihai Iordache, **Dragoş NICULAE**, Lavinia Bobaru, Victor Bucata - “Algorithm for computing S parameters and their use for studying efficiency of electromagnetic energy wireless transfer systems”, Rev. Roum. Sci. Techn.- Électrotechn. et Énerg., Tome 63, No. 2, Bucharest , **2018**, pp. 138-144, ISSN 0035-4066, **WOS: 000438662400005**.

Ris5. Dragoş NICULAE, Marilena Stanculescu, Sorin Deleanu, Mihai Iordache, Lavinia Bobaru - “Wireless Power Transfer Systems Optimization Using Multiple Magnetic Couplings”, ELECTRONICS, Volume:10, Issue:20, 2.69 Impact Factor, oct.**2021**, pp. 1-12, eISSN 2079-9292, **WOS: 000715322800001**.

Ris6. Ovidiu Laudatu, **Dragoş NICULAE**, Mihai Iordache, Lavinia Bobaru, Marilena Stanculescu - “Experimental analysis of power semiconductor elements used in flyback converters”, Rev. Roum. Sci. Techn.- Électrotechn. et Énerg., Volume 69, Issue 1, Bucharest, **2024**, pp. 67-72, ISSN 0035-4066, **WOS: 001198252400013**.

Ris7. Mihaela Grib, Ioana Gabriela Sirbu, Lucian Mandache, Marilena Stanculescu, Mihai Iordache, Lavinia Bobaru, **Dragoş NICULAE** - “Generation Algorithms for Thévenin and Norton Equivalent Circuits”, Energies, Vol. 18, Issue 6, **2025**, pp. 67-72, ISSN 2079-9292, **WOS: 001453861100001**.

Ris8. Georgescu A.F., **Dragoș NICULAE**, Mihai Iordache, Marilena Stanculescu, Ana Maria Bumbeneci, Lavinia Bobaru, Georgiana Zainea, Mihai Rotaru - “Automatic Procedure and the Use of the Smith Chart in Impedance Matching in Analog Circuits”, Electronics, Vol. 14, Issue 14, DOI10.3390/electronics14142746, **2025**, pp. 1-17, eISSN 1996-1073, **WOS: 001539842500001**.

Ris9. Grib M., Iordache M., **Dragoș NICULAE**, Stanculescu M., Bobaru L., Grib A. - “USING THE SMITH DIAGRAM IN THE ANALYSIS OF HIGH-FREQUENCY ANALOG CIRCUITS”, Rev. Roum. Sci. Techn.-Électrotechn. et Énerg., Volume 70, Issue 3, DOI : 10.59277/RRST-EE.2025.70.3.13, Bucharest, **2025**, pp. 361-366, ISSN 0035-4066, **WOS: 0015977105100006**.

Lucrari publicate în proceedings ISI

Vis1. G. Ciuprina, D. Ioan, **Dragoș NICULAE**, JF. Villena, LM. Silveira – “Parametric Models Based on Sensitivity Analysis for Passive Components” – International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, Prague, **2007**, pp. 231-239, ISBN: 978-3-540-78489-0, ISSN 1860-949X, eISSN 1860-9503, **WOS: 000261540000028**.

Vis2. A. Marascu, L. Dumitriu, M. Iordache, **Dragoș NICULAE** – “Tolerance analysis for Chebysev filters” , 4th European Conference on Circuits and Systems for Communications (ECCSC **2008**), Bucharest, ROMANIA, pp.133-137, Proceedings Paper, **WOS:000259024700019**, ISBN:978-1-4244-2419-1.

Vis3. M. Iordache, Ileana Calomfirescu, **Dragoș NICULAE**, M. Dogaru - „Simulation of Induction Motor Using State Variables”, Proceeding of the 7th International Symposium Advanced Topics in Electrical Engineering – ATEE’11, 12-14 May **2011** – Bucharest, ROMANIA, Editura Politehnica Press, pp. 59 - 64, **WOS:000310701200035**, ISBN:978-1-4577-0507-6, ISSN: 1843-8571.

Vis4. **Dragoș NICULAE**, M. Iordache, Lucia Dumitriu, „Magnetic Coupling Analysis in Wireless Transfer Energy”, Proceeding of the 7th International Symposium Advanced Topics in Electrical Engineering – ATEE’11, 12-14 May **2011** – Bucharest, ROMANIA, Editura Politehnica Press, pp. 405 - 408, **WOS:000310701200004**, ISBN:978-1-4577-0507-6, ISSN: 1843-8571.

Vis5. Lucia Dumitriu, **Dragoș NICULAE**, M. Iordache, L. Mandache, Georgiana Zainea, „On wireless power transfer”, 11-th International Conference on Applied and Theoretical Electricity ICATE **2012**, Craiova 25-27 october, 2012, **WOS:000332581900005**, ISBN:978-1-4673-1810-5.

Vis6. M. Iordache, Lucia Dumitriu, L. Mandache, **Dragoș NICULAE** „On analog circuit parameter estimation”, 11-th International Conference on Applied and Theoretical Electricity ICATE 2012, Craiova 25-27 october, **2012**, **WOS:000332581900001**, ISBN:978-1-4673-1810-5.

Vis7. M. Iordache, **Dragoș NICULAE**, Lucia Dumitriu „Performance optimization in wireless transfer of electromagnetic energy”, Proceeding of the 8th International Symposium Advanced Topics in Electrical Engineering – ATEE’13, 23-25 May **2013** – Bucharest, Romania, **WOS:000332928500031**, ISBN:978-1-4673-5980-1; 978-1-4673-5979-5.

Vis8. M. Iordache, L. Dumitriu, L. Mandache, **Dragoș NICULAE** “Parameter Estimation and Performance Optimization of Voltage Controlled Oscillators”, International Symposium on Signals, Circuits and Systems (ISSCS **2013**), Iasi, Romania, **WOS:000337926700050**, ISBN:978-1-4673-6141-5.

Vis9. L. Mandache, M. Iordache, Lucia Dumitriu, I.G. Sirbu, **Dragoș NICULAE** „Sensitivity analysis of analog circuits based on a modified nodal approach”, International Conference on Optimisation of Electrical and

Electronic Equipment – OPTIM 2014, Brasov 22-24 may **2014**, pp.83-88, DOI 10.1109/OPTIM.2014.6850899, **WOS:000343551300013**, ISBN:978-1-4799-5183-3.

Vis10. M. Iordache, L. Dumitriu, R. Voiculescu, **Dragoş NICULAE**, N. Galan, S. Deleanu, D. Carpenter “Saturated Induction Machine Steady-State Performance Assessment Through Simulations”, International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) **2014**, Brasov, Romania, pp. 368-374, **WOS:000343551300053**, ISBN:978-1-4799-5183-3.

Vis11. M. Iordache, L. Dumitriu, **Dragoş NICULAE**, L. Mandache, J.M. Paillot, D. Cordeau “Analysis of Coupled Oscillators through a Two-Port Passive Network” International Conference on Applied and Theoretical Electricity ICATE 2014, Craiova 23-25 october, **2014**, ISBN 978-1-4799-4161-2, **WOS:000352737400002**.

Vis12. M.Iordache, **Dragoş NICULAE**, L. Iordache, L. Mandache „Circuit Analysis of Frequency Splitting Phenomena in Wireless Power Transfer Systems” International Symposium Advanced Topics in Electrical Engineering – ATEE’15, Bucharest 2015, pp. 146-151, ISBN 978-1-4799-7514-3, **WOS:000368159800026**.

Vis13. M.Iordache, L. Mandache, **Dragoş NICULAE**, L. Iordache „On exact circuit analysis of frequency splitting and bifurcation phenomena in wireless power transfer systems” International Symposium on Signals, Circuits and Systems – ISSCS 2015, Iasi, iulie 09-10 **2015**, ISBN 978-1-4673-7488-0, **WOS:000380451600009**.

Vis14. L. Iordache, M. Stanculescu, **Dragoş NICULAE**, V. Bucata „Parameter Identification of Magnetic Coupled Resonators in Power Wireless Transfer Systems” 2016 INTERNATIONAL SYMPOSIUM ON FUNDAMENTALS OF ELECTRICAL ENGINEERING (ISFEE), pp. 1-7, JUN 30-JUL 02, **2016**, Romania, ISBN:978-1-4673-9575-5, **WOS:000392434400023**.

Vis15. M. Iordache, I.G. Sarbu, L. Mandache, A. Marinescu, **Dragoş NICULAE**, L. Iordache „Comparative study of the frequency splitting and bifurcation phenomena for equivalent circuits of the wireless power transfer system” International Conference on applied and theoretical electricity ICATE **2016**, Craiova, **WOS:000390767500100**, ISBN:978-1-4673-8562-6.

Vis16. M. Iordache, G. Andronesu, V. Bucata, **Dragoş NICULAE**, M. Stanculescu, L. Iordache „Analysis and design of wireless electromagnetic energy transfers systems” International Conference on applied and theoretical electricity ICATE **2016**, Craiova, **WOS:000390767500101**, ISBN:978-1-4673-8562-6.

Vis17. **Dragoş NICULAE**, M. Iordache, M. Stanculescu, L. Iordache „The influence of the alignment between receiver and transmitter coils on efficiency of wireless transfer energy” International Conference on applied and theoretical electricity ICATE **2016**, Craiova, **WOS:000390767500102**, ISBN:978-1-4673-8562-6.

Vis18. T. Tanase, M. Teme, S. Oncescu, M. Iordache, **Dragoş NICULAE**, L. Iordache, V. Bucata „Some aspects regarding optimization of wireless power transfer transmission” International Conference on applied and theoretical electricity ICATE **2016**, Craiova, **WOS:000390767500103**, ISBN:978-1-4673-8562-6.

Vis19. M. Stanculescu, L. Iordache, M. Iordache, **Dragoş NICULAE**, V. Bucată „Using S Parameters in Wireless Power Transfer Analysis” 10TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE **2017**), Bucharest, Romania, pg. 107-112, **WOS:000403399400022**, ISBN:978-1-5090-5160-1, ISSN: 1843-8571.

Vis20. M. Stanculescu, L. Iordache, M. Iordache, **Dragoş NICULAE**, V. Bucată „The Use of (S) under-bar Parameters in Wireless Power Transfer System Stability” **2017 INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS (ISSCS 2017)**, Iasi, Romania, **WOS:000425211500019**, ISBN:978-1-5386-0674-2.

Vis21. M. Stanculescu, L. Iordache, M. Iordache, **Dragoş NICULAE**, V. Bucată „Analysis of Wireless Power Transfer Systems Using (S) under-bar Parameters to Generate the Power Gains” **2017 INTERNATIONAL**

CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT (OPTIM **2017**), Brasov, Romania, **WOS:000426909600010**, ISBN:978-1-5090-4489-4.

Vis22. M. Iordache, **Dragos NICULAE**, L. Ene, C. Sandu, L. Bobaru, C. Bibirica „On the Procedures for Optimal Wireless Energy Transfer Systems” **2017 ELECTRICAL VEHICLES INTERNATIONAL CONFERENCE (EV 2017)**, Bucharest, Romania, **WOS:000427815000032**, **ISBN: 978-1-5386-2382-4**.

Vis23. G. Rezmerita, L. Bobaru, M. Stanculescu, M. Iordache, **Dragos NICULAE** „A Self and Mutual Inductance Calculation Resonator with Finite Element Analysis” **2017 7TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS 2017)**, Cluj Napoca, Romania, **WOS:000424862600050**, ISBN: 978-1-5090-6565-3.

Vis24. M. Iordache, M. Stanculescu, **Dragos NICULAE**, L. Iordache, R. Asanache „Switched Networks Analysis with Inconsistent Initial Conditions” **2017 7TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS 2017)**, Cluj Napoca, Romania, **WOS:000424862600035**, ISBN: 978-1-5090-6565-3.

Vis25. S. Deleanu, M. Iordache, **Dragos NICULAE**, M. Stanculescu, M. Dogaru, N. Galan „Dynamic operation of high power synchronous generator in asynchronous regime or encountering three-phase shortcircuit” **INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE 2018)**, pp. 1-6, Craiova, Romania, **WOS:000487278600073**, ISBN: 978-1-5386-3806-4. ISSN: 2376-4163.

Vis26. S. Deleanu, M. Iordache, **Dragos NICULAE**, B. Venescu, M. Turcu, N. Galan „The Overvoltage Distribution across transformer windings in presence of long feeders” **INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE 2018)**, pp. 1-6, Craiova, Romania, **WOS:000487278600080**, ISBN: 978-1-5386-3806-4. ISSN: 2376-4163.

Vis27. R. Asanache, M. Iordache, **Dragos NICULAE**, M. Stanculescu, L. Bobaru, V. Bucata „The computation of the kQ-product and properties of wireless power transfer systems” **INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE 2018)**, pp. 1-6, Craiova, Romania, **WOS:000487278600065**, ISBN: 978-1-5386-3806-4. ISSN: 2376-4163.

Vis28. M. Stanculescu, I-G Sirbu, L. Mandache, **Dragos NICULAE**, M. Voinea, V. Bucata, M. Iordache „About Pathologic Linear Circuit with Inconsistent initial conditions” **INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE 2018)**, pp. 1-6, Craiova, Romania, **WOS:000487278600040**, **ISBN: 978-1-5386-3806-4**. ISSN: 2376-4163.

Vis29. P. Wong, Z. Robertshaw, S. Deleanu, C. Aamot, M. Iordache, M. Stanculescu, **Dragos NICULAE** „Using Programmable Logic Controllers to Simulate Common Motor Load Curves in Industry” **11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE 2019)**, pp. 1-6, Bucharest, Romania, **WOS:000475904500172**, ISBN: 978-1-4799-7514-3. ISSN: 1843-8571.

Vis30. **Dragos NICULAE**, M. Iordache, M. Stanculescu, L. Bobaru, S. Deleanu „A Review of Electrical Vehicles Charging Technologies Stationary and Dynamic” **11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE 2019)**, pp. 1-6, Bucharest, Romania, **WOS:000475904500100**, ISBN: 978-1-4799-7514-3. ISSN: 1843-8571.

Vis31. S. Deleanu, M. Iordache, M. Stanculescu, **Dragos NICULAE** „The Induction Machine Operating from a Voltage Supply, Unbalanced and Polluted with Harmonics: A Practical Approach” **2019 15TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES)**, pp 181-184, Oradea, Romania, **WOS: 000503434500046**, ISBN: 978-1-7281-0773-8.

Vis32. L. Bobaru, M. Stanculescu, S. Deleanu, M. Iordache, V. Bucata, **Dragos NICULAE** „Using S Parameters in Two-Port Circuit Analysis” **2019 15TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES)**, pp 81-84, Oradea, Romania, **WOS: 000503434500021**, ISBN: 978-1-7281-0773-8.

Vis33. R. Asanache, M. Iordache, **Dragos NICULAE**, M. Stanculescu, L. Bobaru, V. Bucata, S. Deleanu „On Circuit Analysis and Simulation of Networks with Nullors” **2019** 8-th INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS 2019), Cluj Napoca, Romania, **WOS: 000612401900049**, ISBN: 978-1-7281-0750-9.

Vis34. S. Deleanu, G. Von Lipinski, M. Iordache, M. Stanculescu, **Dragos NICULAE** „Performance Evaluation of the ThreePhase Induction Motor Operating in Conditions of Unbalanced Voltage Supply” **2019** 8-th INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS 2019), Cluj Napoca, Romania, **WOS: 000612401900035**, ISBN: 978-1-7281-0750-9.

Vis35. A. Dalea, M. Iordache, **Dragos NICULAE**, N. Galan, S. Deleanu, M. Ignat „Rotary Magnetostrictive Motor” **2019** INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND ENERGY SYSTEMS (SIELMEN **2019**), Craiova, Romania, **WOS: 000630287500031**, ISBN: 978-1-7281-4011-7.

Vis36. M. Iordache, M. Stanculescu, L. Bobaru, **Dragos NICULAE**, S. Deleanu „Integrated Analog Circuits Analysis Using Companion Models” 12TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE **2021**), pp. 1-6, Bucharest, Romania, **WOS: 000676164800099**, ISBN: 978-1-6654-1878-2.

Crb. Lucrari publicate în reviste BDI

Ri1. Mihai Iordache, Lucia Dumitriu, **Dragoș Niculae**, "On the sensitivity analysis of analog circuits", Annals of the University of Craiova, Electrical Engineering, No. 32, **2008**, pp. 11 - 16, ISSN 1842 – 4805.

Ri2. M. Iordache, M. Dogaru, **D. NICULAE**, „Asupra Modelării Regimurilor Dinamice Ale Mașinii Sincrone”, EEA - Electrotehnica, Electronica, Automatica, 57, NR.4, **2009**, PP. 42-46.

Ri3. Mihai Iordache, Mihai Dogaru, **Dragoș Niculae**, Ileana Calomfirescu, "Computer – Aided Analysis of Induction Motor", Annals of the University of Craiova, Electrical Engineering, No. 34, **2010**, pp. 224 - 228, ISSN 1842 – 4805.

Ri4. **Dragoș Niculae**, Lucia Dumitriu, M. Iordache, L. Mandache, A. Ilie, "Magnetic resonant couplings used in wireless power transfer to charge the electric vehicle batteries", Buletinul AGIR, Year XVI, No. 4, octombrie-decembrie **2011**, pp. 155 - 158, ISSN 1224 – 7928.

Ri5. **Dragoș Niculae**, Lucia Dumitriu, M. Iordache, L. Mandache, G. Zainea, "Wireless power optimal transfer in magnetic coupled resonators", Scientific Bulletin of the Electrical Engineering Faculty, Valahia University of Targoviste, Year 11, No. 2(16), **2011**, pp. 45 - 50, ISSN 1843 – 6188.

Ri6. Lucia Dumitriu, **Dragos Niculae**, M. Iordache, L. Mandache, Georgiana Zainea, „On wireless power transfer”, Annals of the University of Craiova, Electrical Engineering series, No. 36, **2012**, ISSN 1842-4805, pp.6-11.

Ri7. M. Iordache, Lucia Dumitriu, **Dragos Niculae**, L. Mandache „A novel approach for induction machine parameter estimation”, Buletinul AGIR, No.2, **2012**, pp. 341-348, ISSN 2247-3548.

Ri8. M. Iordache, Lucia Dumitriu, **Dragos Niculae**, N. Galan, S. Deleanu, L. Mandache „Dynamic performance analysis of deep bars squirrel cage induction motor by simulation” Annals of the University of Craiova, Electrical Engineering series, No. 37, **2013**, pp. 1-9, ISSN 1842-4805.

Ri9. M. Iordache, Lucia Dumitriu, L. Mandache, **Dragos Niculae**, J.M. Paillot, D. Cordeau „An analytic method for two-port passive network computing for analysis of coupled oscillators”, Buletinul AGIR, No.3 iulie-septembrie, **2013**, pp. 71-76, ISSN 1224-7928.

Ri10. M. Iordache, Lucia Dumitriu, **Dragos Niculae**, L. Mandache, J.M. Paillot, D. Cordeau „Computing of Phase Shift for Coupled Oscillators through a Two-Port Passive Network” Annals of the University of Craiova, Electrical Engineering series, No. 38, **2014**, pp. 7-11, ISSN 1842-4805.

Ri11. Mihai Iordache, Andrei Marinescu, Ioana-Gabriela Sirbu, Lucian Mandache, Dragoş Niculae, Lavinia Iordache „New Aspects on the Frequency Splitting and Bifurcation Phenomena in Wireless Power Transfer Systems” Annals of the University of Craiova, Electrical Engineering series, No. 40, **2016**, pp. 46-53, ISSN 1842-4805.

Ri12. Mihai Iordache, Victor Bucată, **Dragoş Niculae**, Marilena Stănculescu, Maria - Lavinia Bobaru, “Design of Wireless Electromagnetic Energy Transfer Systems”, Annals of the University of Craiova, Electrical Engineering series, No. 42, Issue 1, **2018**; ISSN 1842-4805, pp. 15 - 20.

Ri13. **Dragoş Niculae**, Marilena Stănculescu, Mihai Iordache and Maria - Lavinia Bobaru, “An Analysis on Efficiency of Wireless Transfer Energy Due to a Misalignment of Two Coils”, Annals of the University of Craiova, Electrical Engineering series, No. 42, Issue 1, **2018**; ISSN 1842-4805, pp. 21 - 25.

Ri14. Marilena Stănculescu, Lavinia Bobaru, Mihai Iordache, **Dragoş Niculae** and Victor Bucată, “Wireless Power Transfer Analysis Using Scattering Parameters”, Annals of the University of Craiova, Electrical Engineering series, No. 42, Issue 1, **2018**; ISSN 1842-4805, pp. 26 - 31.

Ri15. Lavinia Maria Bobaru, Marilena Stănculescu, D. Niculae and M. Iordache „On Magnetically Coupled Coils Parameter Calculation” - The Scientific Bulletin of Electrical Engineering Faculty VOL. 20 (2020): ISSUE 1 (APRIL **2020**), pp.9-13, eISSN:n2286-2455.

Lucrari publicate în proceedings BDI

Vi1. Lucia Dumitriu, M. Iordache, **Dragos Niculae** „State variable approach in steady state analysis of circuits driven by multi-tone signals” SMACD 2006, Proceedings of the 9-th International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuits Design, Firenze Italy, 12 oct. 2006, ISBN 978-888453509-2.

Vi2. **Dragoş NICULAE**, Lucia Dumitriu, M. Iordache „Fault detection and location in analog resistive circuits” SMACD 2006, Proceedings of the 9-th International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuits Design, Firenze Italy, 12 oct. 2006, ISBN 978-888453509-2.

Vi3. A. Marasacu, L. Dumitriu, M. Iordache, **Dragoş NICULAE** „Tolerance analysis for analog circuits”, SM2ACD 2008, 10-th International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuits Design, pp 165-171, Erfurt Germany, 7 oct. 2008, ISBN 978-300025761-2.

Vi4. Mihai Iordache, Marilena Stanculescu, Razvan Asanache, **Dragoş NICULAE**, Sorin Deleanu, Lavinia Bobaru, “Battery Charging by Using a Multi-Tapped Secondary Coil” Proc. of Electric Vehicles International Conference (EV), Oct. 3-4 2019, Bucharest, Romania, mmm.evshow.ro, Published in: 2019 Electric Vehicles

International Conference (EV), Date Added to IEEE Xplore: 11 November 2019, ISBN Information: DOI: 10.1109/EV.2019.8893079. Publisher: IEEE. Conference Location: Bucharest, Romania, Romania, pp. 1-7.

Vi5. Z. Erdei, M. Iordache, **Dragoș NICULAE**, Marilena Stanculescu, A. Grib, “The Use of S Parameters in Two-Port Analogue Networks Stability Analysis”, IOP Conference Series: Materials Science and Engineering, Volume 749, The International Conference of the Carpathian Euro-Region Specialists in Industrial Systems 11–12 April 2019, Baia Mare, Romania, IOP Publishing, doi:10.1088/1757-899X/749/1/012031 1. Pp. 1-11..

Vi6. M. Iordache, Marilena Stănculescu, **D. Niculae**, Lavinia Bobaru, S. Deleanu, Oana Drosu, “Wireless Power Transfer Systems Optimization”, Proceedings of the The 12th International Conference and Exposition on Electrical and Power Engineering, EPE 2022, October 20–22, 2022, Iasi, ROMÂNIA, IEEE Xplore: 25 November 2022, DOI:10.1109/EPE56121.2022.9959759, Publisher: IEEE, pp. 1-7.

Vi7. Marilena Stănculescu, M. Iordache, **D. Niculae**, Lavinia Bobaru, Georgiana Rezmerita, S. Deleanu “Impedances Matching Network Generation for Magnetically Coupled Coils Systems”, Proceedings of The 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2023, Bucuresti, ROMÂNIA.

Vi8. O. Laudatu, M. Iordache, Marilena Stănculescu, Lavinia Bobaru, **D. Niculae**, O. Drosu “Wireless Power Transmission System Design. A Practical Approach”, Proceedings of The 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2023, Bucuresti, ROMÂNIA.

Vi9. M. Iordache, Marilena Stănculescu, P. Andrei, Lavinia Bobaru, H. Andrei, E. Diaconu, C. Cobianu, I. Caciula, **D. Niculae** “Equivalent Models of Nonlinear Circuit Elements in Nonsinusoidal Regime”, Proceedings of the 10th International Conference on Modern Power Systems (MPS), 2023, Cluj Napoca, ROMÂNIA.

Vi10. **D. Niculae**, M. Iordache, Lavinia Bobaru, Marilena Stănculescu, Mihaela Grib, O. Laudatu “Adapting the Impedance of The Signal Transmission Lines”, Proceedings of the 10th International Conference on Modern Power Systems (MPS), 2023, Cluj Napoca, ROMÂNIA.

Vi11. Mihaela Grib, M. Iordache, **D. Niculae**, Lavinia Bobaru, Marilena Stănculescu, Georgiana Rezmerita, M. Rotaru “The Use Of Smith Diagram For Impedance Matching”, Proceedings of the 10th International Conference on Modern Power Systems (MPS), 2023, Cluj Napoca, ROMÂNIA.

Vi12. O. Laudatu, M. Iordache, Marilena Stănculescu, **D. Niculae**, Lavinia Bobaru, Oana Drosu “Loop Closing of Flyback Switching Power Supply Using Inductive Coupling. Practical Study”, Proceedings of the 10th International Conference on Modern Power Systems (MPS), 2023, Cluj Napoca, ROMÂNIA.

Vi13. Lavinia Bobaru, **D. Niculae**, Georgiana Rezmerita, Marilena Stănculescu, M. Iordache, Oana Drosu, S. Deleanu “Factors Influencing the Optimization of Magnetically Coupled Coil Structures-Analysis and Discussions”, Proceedings of the International Conference on Electromechanical and Energy Systems (SIELMEN), 2023, DOI: 10.1109/SIELMEN59038.2023.10290826 Craiova, ROMÂNIA.

Vi14. **Dragos Niculae**, M. Iordache, Lavinia Bobaru, Marilena Stănculescu, Oana Drosu, A Moscu “Dedicated Analog Circuit Simulation Programs”, Proceedings of the International Conference on Electromechanical and Energy Systems (SIELMEN), 2023, DOI: 10.1109 /SIELMEN59038.2023.10290763, Craiova, ROMÂNIA.

Vi15. O. Laudatu, Marilena Stănculescu, M. Iordache, Lavinia Bobaru, **D. Niculae**, M. Rotaru “Design Considerations for Switched-Mode Power Supplies with Capacitive Coupling”, Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), 2024, DOI: 10.1109/ICATE62934.2024.10748629 Craiova, ROMÂNIA.

Vi16. Mihaela Popescu, Marilena Stănculescu, M. Iordache, Lavinia Bobaru, **D. Niculae**, Mihaela Grib “Computing the Parameters of the Impedance Circuit Matching”, Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), 2024, DOI: 10.1109/ICATE62934.2024.10748629 Craiova, ROMÂNIA.

Vi17. Dragos Niculae, M. Iordache, Marilena Stănculescu, Lavinia Bobaru, A. Georgescu, V. Bucata “Computer Aided Design of Two-Element Matching Network Using the ZY Smith Chart”, Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), 2024, DOI: 10.1109/ICATE62934.2024.10748629 Craiova, ROMÂNIA.

Lucrari publicate neindexate

Vn1. Dragoș NICULAE, Dan FLORICĂU - Fault detection in asynchronous drive — Adanced Topics in Electrical Engineering (ATEE'02), Politehnica University of Bucharest, 29th November **2002**, ISBN: 973-652-674-7;

Vn2. Mihail DUMITRACHE, Dragoș NICULAE - Fundamental principles about the topology of the circuits — Adanced Topics in Electrical Engineering (ATEE'02), Politehnica University of Bucharest, 29th November **2002**, ISBN: 973-652-674-7;

Vn3. Daniel IOAN, Gabriela CIUPRINA, Dragoș NICULAE, Diana MIHALACHE - On-chip Interconnect Lines Simulation using Finite Integration Technique adapted to Transversal Magnetic Field – The 6th International Conference on SCEE **2006**, Ed. Printech, ISBN(10) 973-718-520-x, ISBN(13) 978-973-718-520-4, pp.102-103, Romania;

Vn4. Erdei Zoltan, Dragoș NICULAE, Cătălina Popescu „Influența toleranțelor elementelor de circuit asupra performanței sistemului” Proceeding of the 5th International Symposium Advanced Topics in Electrical Engineering – ATEE'06, 24-25 November **2006** – Bucharest, ROMANIA, Electrical Engineering Faculty, Politehnica University of Bucharest, pp. 249-252, ISBN (10) 973-8987-12-1; ISBN (13) 978-973-8987-12-8, Vol. 2 -2006 – ISBN (10) 973-8987-14-8; ISBN (13) 978-973-8987-14-2;

Vn5. Dragoș Niculae, M. Iordache, Lucia Dumitriu, “Utilizarea funcțiilor de transfer în diagnosticarea circuitelor electrice analogice”, Proceeding of the 5th International Symposium Advanced Topics in Electrical Engineering – ATEE'06, 24-25 November **2006** – Bucharest, ROMANIA, Electrical Engineering Faculty, Politehnica University of Bucharest, pp. 249-252, ISBN (10) 973-8987-12-1; ISBN (13) 978-973-8987-12-8, Vol. 2 -2006 – ISBN (10) 973-8987-14-8; ISBN (13) 978-973-8987-14-2.

Vn6. Mihai Iordache, Lucia Dumitriu, Dragoș Niculae ”A New Generalised Hybrid Method for Nonlinear Analog Circuit Analysis”, Simpozionul National de Electrotehnica Teoretica, SNET'07, 12-14 October **2007**, Bucharest, UPB, on CD, pp. 34 – 44, ISBN: 973-718-096-8.

Vn7. Mihai Iordache, Mihai Dogaru, Dragoș Niculae, ”Asupra modelării regimurilor dinamice ale mașinii sincrone”, Simpozionul National de Electrotehnica Teoretica, SNET'08, 5-7 Iunie **2008**, București, UPB, on CD, pp. 10 - 20, ISBN: 978-606-521-045-5.

Vn8. Mihai Iordache, Dragoș NICULAE, Iulia Dumitrescu, Gh. Despina „Calculul si importanta senzitivitatii in analiza si proiectarea circuitelor electrice” SNET '08, 5-7 iunie **2008**, UPB, Bucuresti, Romania, on CD, ISBN 978-606-521-045-5;

Vn9. Mihai Iordache, Lucia Dumitriu, Elena Rotar, Gabriela Nicolescu, Aurora Joga, Nicolae Voicu, Dragoș Niculae, ”Improvement of the electrical motor performances by using an electro insulating varnish in H class and a trickle impregnation procedure”, 4th International Conference on Technical and Physical Problems of Power Engineering, TPE 2008, Sept. 4-6 **2008**, Pitesti Romania.

Vn10. Mihai Iordache, Lucia Dumitriu, Neculai Galan, Mihai Predescu, Nicolae Voicu, Arif Mammadov, Dragoș Niculae, ”Modeling the ventilation system of the electrical machines by electric circuits”, TPE 2008, Sept. 4-6 **2008**, Pitesti Romania.

- Vn11.** Arif Mammadov, Neculai Galan, Lucia Dumitriu, **Dragos NICULAE** s.a, „Three-phase asynchronous motor with axial flux and general mathematical model” 4th International Conference on Technical and Physical Problems of Power Engineering TPE **2008**, Pitesti, Romania;
- Vn12.** Mihai Iordache, Lucia Dumitriu, Elena Rotar, Gabriela Nicolescu, Aurora Joga, Nicolae Voicu, **Dragos Niculae**, “Improvement of the Electrical Machine Performances by Using an Electro Insulating Varnish in H Class”, Proceeding of the 6th International Symposium Advanced Topics in Electrical Engineering – ATEE’08, 20-21 November **2008** – Bucharest, ROMANIA, Editura Printech, pp. 67-70, ISBN 978-606-521-137-7.
- Vn13.** **Dragos Niculae**, Lucia Dumitriu, Mihai Iordache, “Heat Transfer Computation Using Electrical Circuit Analogy”, Proceeding of the 6th International Symposium Advanced Topics in Electrical Engineering – ATEE’08, 20-21 November **2008** – Bucharest, ROMANIA, Editura Printech, pp. 126-129, ISBN 978-606-521-137-7.
- Vn14.** Nicolae Voicu, Lucia Dumitriu, Mihai Iordache, **Dragos Niculae**, “Modeling of the Induction Motor Ventilation by Electric Circuits”, Proceeding of the 6th International Symposium Advanced Topics in Electrical Engineering – ATEE’08, 20-21 November **2008** – Bucharest, ROMANIA, Editura Printech, pp. 147-150, ISBN 978-606-521-137-7.
- Vn15.** **Dragos Niculae**, Lucia Dumitriu, Mihai Iordache, “Electrical Circuit Methods for Heat Transfer Computation”, Proceedings of the 3rd International Conference on Electronics, Computers and Artificial Intelligence ECAI 2009, 3-5 july **2009**, Pitesti, Romania, No. 4/2009, pp.140-144, ISSN-1843-2115.
- Vn16.** Mihai Iordache, Lucia Dumitriu, **Dragos Niculae**, “Sensitivity Computation for Analog Circuits”, Proceedings of the 3rd International Conference on Electronics, Computers and Artificial Intelligence ECAI **2009**, 3-5 july 2009, Pitesti, Romania, No. 2/2009 pp.110-114, ISSN-1843-2115.
- Vn17.** Mihai Iordache, Mihai Dogaru, **Dragos Niculae**, Ileana Calomfirescu, "Computer – Aided Analysis of Induction Motor", Proceedings of 10th International Conference on Applied on Theoretical Electricity, ICATE **2010**, Craiova, Romania, October 8-9, 2010, pp. 224 - 228, Universitaria Publishing House, Craiova, 2010.
- Vn18.** Ileana Calomfirescu, M. Dogaru, M. Iordache, **D. Niculae**, Lucia Dumitriu, "Dynamic Behaviours of the Induction Motor", Simpozionul National de Electrotehnica Teoretica, SNET **2010**, 03-04 December, Bucharest, UPB, on CD, pp. 12 - 16, ISBN: 973-718-096-8.
- Vn19.** **D. Niculae**, M. Iordache, "Considerații privind transferul fără fir al energiei electromagnetice", Simpozionul National de Electrotehnica Teoretica, SNET **2010**, 03-04 December, Bucharest, UPB, on CD, ISBN: 973-718-096-8.
- Vn20.** **Dragos Niculae**, Lucia Dumitriu, M. Iordache, L. Mandache, Georgiana Zainea „Wireless power optimal transfer in magnetic coupled resonators”, The 9-th edition of international symposium on electrical engineering ISEE **2011**, Targoviste, ISBN 978-973-712-654-2, pp.62-66.
- Vn21.** M. Iordache, Lucia Dumitriu, L. Mandache, **Dragos Niculae** „Estimation of Van der Pol oscillator parameters based on transfer functions”, SNET **2012**, 14 decembrie 2012, Bucuresti, pp. 96-99, ISSN: 2067-4147.
- Vn22.** D. Dan, **Dragos Niculae**, M. Iordache „Identificarea parametrilor circuitelor rezonante utilizate in transferul wireless al puterii electromagnetice”, SNET **2012**, 14 decembrie 2012, Bucuresti, pp. 134-139, ISSN: 2067-4147.
- Vn23.** M. Iordache, Lucia Dumitriu, **Dragos Niculae**, N. Galan, S. Deleanu, L. Mandache „Dynamic performance analysis of deep bars squirrel cage induction motor by simulation”, 9-th International Conference on Electromechanical and Power Systems – SIELMEN **2013**, Chisinau 17-18 october.

CONTRACTE DE CERCETARE

- director/responsabil proiect

- PN III P2 112/01.11.2016 Nr.81BG/2016 "Analiza si testarea distributiei campului electric la izolatoare din materiale compozite pentru cresterea sigurantei in functionare" UEFISCDI. Director proiect **Dragos NICULAE**.
- GNAC ARUT 2023 Nr.25/09.10.2023 "Alimentare wireless cu energie pentru e-mobilitate". Director grant **Dragos NICULAE**.

- membru in echipa de cercetare

- CNCSIS contract nr 40528/05.11.2003, tema 56 "Simularea regimurilor dinamice neliniare ale circuitelor analogice integrate" (faza III 2005) - responsabil contract prof.dr.ing. Mihai Iordache
- CNCSIS 90 tema 38 "Generarea de macromodele comportamentale pentru circuitele analogice integrate" Faza 2006/2007/2008 - responsabil proiect prof.dr.ing. Mihai Iordache
- CEEX modul I, contract nr. 258/11.09.2006 "Cresterea coeficientului de utilizare a echipamentelor electrotehnice prin utilizarea de noi materiale electroizolante in clasa de izolatie H" Faza 2006/2007/2008 - director de proiect prof.dr.ing. Mihai Iordache
- FP6_IST/027368/Comprehensive and High Accuracy Modelling of Electromagnetic Effects in Complete Nanoscale RF Blocks - CHAMELEON-RF, director de proiect prof.dr.ing. Ioan Daniel, intre 01.11.2005 si 30.04.2008
- POCU_PRACTICE MySMIS cod 131213 „Sinergia mediului universitar cu cel economic pentru a raspunde nevoilor actuale si viitoare ale pietei muncii in domeniul electric, energetic si stiinta materialelor” 2020-2022, director de proiect George Darie.

09.10.2025

Niculae Dragos