

LISTA DE LUCRĂRI – S.L. Dr. Ing. Oana Mihaela DROSU

A – teza de doctorat

A1) “Studiul campului electromagnetic in bioingineria medicala - Modelarea numerica a stimulării cardiace”, din 21.06.2004, Diploma de Doctor seria C Nr. 0009307;

B – Carti si capitole in carti

B1) I.F. Hăntilă, M.O. Popescu, Cl. Popescu, **O. Drosu**, M. Maricaru, M. Vasiliu, “*Impactul campurilor electromagnetice de natura antropica asupra ecosistemelor*” – Partea a II-a: *Studiul interactiei campului electromagnetic – structuri celulare*, ed. Printech, Bucuresti, 2007, ISBN 98-973-718-912-7.

B2) **O. Drosu**, “*Câmpul electromagnetic în bioingineria medicală*”, monografie- ed. Electra, București 2005-ISBN 973-7728-03-3, 174 pag.

B3) E. Cazacu, **O. Drosu**, G. Epureanu, L.Petrescu „*Chestiuni speciale de teoria circuitelor electrice – elemente de teorie și aplicații*”, Ed. Matrix-ROM, vol 1, București 2005, ISBN 973-685-926-6, 145 pag.

B4) V. Ionita, **O. Drosu**, F. Enache – “*Electrotehnica – Indrumar de laborator*”, ed. Printech, Bucuresti, 2001 - ISBN 973-652-373-X.

B5) V. Ionita, **O. Drosu**, F. Enache – “*Electrotehnica – Caiet de laborator*”, ed. Printech, Bucuresti, 2001 - ISBN 973-652-409-4.

C – Lucrari indexate ISI/BDI

C1) **O. Drosu**, Ioana Hantila, V. Turcin, P. Pencioiu, P. Palade, M. Maricaru, I. F. Hantila, “Electrostatic purification”, Journal of Electrical and Electronics Engineering, ISSN 1844-6035, Vol. 3, Nr. 2, 2010, pp. 71-76. (indexat BDI, SCOPUS,)

C2) **O. Drosu**, F.Hantila, M. Maricaru, Non-invasive method for screening and early detection of breast tumors using thermal field analysis, Journal of Electrical and Electronics Engineering.: ISSN 18446035, 2009, vol.2, Issue 2, pag. 21, <http://journalseek.net/cgi-bin/journalseek>, (indexat BDI, SCOPUS)

C3) F. Hantila, **O. Drosu**, M. Maricaru, “Eddy-current Melting of Ferromagnetic Bodies”, Journal of Optoelectronics and Advanced Materials (ISI), ISSN 1454 – 4164, Vol. 10, No. 5, May 2008, pp. 1292 – 1294; (indexat ISI)

C4) F. Hantila, **O. Drosu**, M. Maricaru, “Breast tumour detection using the numerical analysis of the thermal inverse problem”, Journal of Optoelectronics and Advanced Materials (ISI), ISSN 1454 – 4164, Vol. 10, No. 5, May 2008, pp. 1295 – 1298; (indexat ISI)

C5) S.Marghitu, O.Marghitu, M.Rizea, C.Oproiu, M.Vasiliu, D.Toader, C.Matei, **O.Drosu**, M.Mihai, "Experiments on low energy electron beams", Revue Roum. Sci. Techn.-Electrotechn. et Energ., tome 52 / 4, pp. 453-461, 2007; (indexat ISI)

D – Lucrari publicate in reviste si volume de conferinte cu referenti (neindexate)

D1) F.Hantila, M. Maricaru, I. R. Ciric, **O. Drosu**, O metoda de dinamica pentru analiza Fourier a regimului periodic in medii neliniare, SNET 2010, 3 Dec. 2010, București, Romania

- D2) **O. Drosu**, F.Hantila, M. Maricaru, C. Tiu, Using thermal field analysis as a new method for screening and early detection of breast tumors, Proceedings of the 21st International Conference of the Medical Society for Innovation and Technology SMIT 2009, 7-9 Oct 2009, Sinaia Romania, pg. 104-105
- D3) **O. Drosu**, M. Maricaru, F. Hantila, Thermal Field Analysis for Breast Tumor Detection, Proceedings of 6th International Conference of Instrumental Methods of Analysis IMA 2009, 4-8 Oct. 2009, Athens, Greece, pg. 154
- D4) **O. Drosu**, F. Hantila, M. Maricaru, C. Tiu, A Three-Dimensional FEM Model of Breast Cancer Localisation Using Thermographical Investigation, JAPMED'6 (6th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials) Extended Abstracts Proceedings, ISBN 978-606-521-346-3, July 27-29, 2009, pp. 151-152.
- D5) **O. Drosu**, F. I. Hantila, M. Maricaru, "Numerical Simulation of Inverse Problem for Thermal Field in Breast Cancer Screening and Detection", EPSMSO 2009, 8-11 July 2009, Athens, Greece, p. 38.
- D8) **O.Drosu**, I.F.Hăntilă, M.Maricaru, E. Hristoforou, "Au-Fe Nanospheres – Assisted Delivery in Breast Tumour IR Thermography", SNET 2009, 27 Nov. 2009, București, Romania
- D7) C. Tiu, F. Hantila, **O. Drosu**, M. Maricaru, A. S. Nica, A double-blind investigation, ultrasound versus the inverse thermal field issue in infrared, related to the breast cancer screening and evaluation, NESAs (New European Surgical Academy) Congress & 5th Breast Symposium Proceed . 28-30 May 2009, Athens, Greece, pg.85
- D8) **O. Drosu**, F.Hantila, M. Maricaru, Non-invasive method for screening and early detection of breast tumors using thermal field analysis, EMES 2009, 27-29 Mai 2009, Oradea, Romania
- D9) C. Tiu, F. Hantila, **O.M. Drosu**, M. Maricaru, A.S. Nica, S. Ioacara, "A double-blind investigation, ultrasound versus the inverse thermal field issue in infrared, related to the breast cancer screening and evaluation", Proceedings of the 20th International Conference of the Medical Society for Innovation and Technology SMIT 2008, 28-30 August 2008, Viena, Austria, ISBN 3-902087-25-0
- D10) C. Tiu, F. I. Hantila, **O. Drosu**, M. Maricaru, A. S. Nica, "Localizing a Breast Tumor with Thermographical Methods", Proceedings of the 20th International Conference of the Medical Society for Innovation and Technology SMIT 2008, 28-30 August 2008, Viena, Austria, ISBN 3-902087-25-0, MITAT Minimally Invasive Therapy and Allied Technologies, ISSN (printed): 1364-5706. ISSN (electronic): 1365-2931 Vol. 17, no. 4. pp. 209–245
- D11) I.F.Hăntilă, M.Maricaru, **O.Drosu**, Cl. Popescu, G.Preda, "Localizarea tumorilor de sân prin metode termografice", Volumul conferinței SNET 2008 (Simpozionul Național de Electrotehnică Teoretică, 5-7 iunie 2008, București), ISBN 978-606-521-045-5, pp. 461-466.
- D12) Cl. Popescu, M.O. Popescu, **O. Drosu**, M. Maricaru, M. Vasiliu, F. Hăntilă, "Metode de calcul al curenților induși în țesuturi organice", The 6th Symposium of Electromagnetic Compatibility SICEM 2007, 16-17 nov. 2007, București, ISBN 978-973-7838-51-3, Politehnica Press.

- D13) Cl. Popescu, M.O. Popescu, **O. Drosu**, M. Maricaru, M. Vasiliu, F. Hăntilă, “Evaluarea densității curentului produs de interacțiunea câmpului electromagnetic cu organismul uman”, The 6th Symposium of Electromagnetic Compatibility SICEM 2007, 16-17 nov. 2007, București, ISBN 978-973-7838-51-3, Politehnica Press.
- D14) **O.Drosu** - Prezentarea rezultatelor proiectului INVTERM - CEEEX 125/2006 - Simpozionul ”Rezultatele cercetării românești în domeniul tehnologiilor informaționale și de comunicații obținute în cadrul Programului CEEEX - Modulul 1” ,Cap Aurora, 17 -20 iunie 2008
- D15) F. Hantila, M. Maricaru, **O. Drosu**, S. Marinescu -Eddy-Current Melting of Ferromagnetic Bodies-JAPMED'5 Proceedings, pp. 109-110, Cyprus 2007
- D16) F. Hantila, **O.Drosu**, M. Maricaru -"Breast Tumor Detection using the Numerical Analysis of the Thermal Inverse Problem"-JAPMED'5 Proceedings, pp107-108, Cyprus 2007
- D17) F. Hantila, **O. Drosu**, M. Maricaru, L. Ocheana "Thermographical Location of Breast Tumor"-SNET 2007-ISBN 978-973-718-899-1
- D18) F.Hantila, **O.Drosu**, M.Maricaru, B.Cupceancu, T.Leuca, “Analiza numerică a câmpului termic în procedurile termografice de localizare a tumorilor de san”, *Analele Universității din Oradea, Fascicula ELECTROTEHNICA*, Editura Universității din Oradea, 2007, pp. 35-38, (ISSN 1841-7221).
- D19) F. Hantila , M. Maricaru , **O. Drosu** ,S. Marinescu, "Eddy-Current Melting of Ferromagnetic Bodies", AMCSIT-Conference "Excellence Research as a Way to E.R.A."- ISSN1843-5904
- D20) M.Vasiliu, Cl.Mihai, **O.Drosu**, B.Cupceancu, F.Hantila, “Metode termografice pentru determinarea formei tumorilor de san”, *Proceedings of the 5-th International Symposium ATEE'06*, 24-25 nov. 2006, Bucuresti, Romania, pp.259-261, ISBN 973-8987-14-8, 978-973-8987-14-2;
- D21) **O. Drosu**- “A Numerical Model of Internal Electrical Stimulation of the Heart”, Proceedings of ATEE Conference-Section 2- CAD in Electrical Engineering, pag. 33-36, CD distributed, ISBN 973-7728-31-9, Bucharest, Romania, Nov. 2004.
- D22) **O. Drosu**- “A Numerical Model of External Electrical Stimulation of the Heart”, Proceedings of ATEE Conference-Section 2- CAD in Electrical Engineering, pag. 37-40, CD distributed, ISBN 973-7728-31-9 Bucharest, Romania, Nov. 2004.
- D23) A. Stanciulescu, I. Nemoianu, **O. Drosu**, A. Anghel- “Estimation of Dimensions of Magnetic Inductive Displacement Rack Transducer”, Proceedings of ATEE Conference-Section 1- Electric Circuits and Electromagnetic Field, pag. 57-60, CD distributed, ISBN 973-7728-31-9 Bucharest, Romania, Nov. 2004
- D24) **O. Drosu**, A. Stănciulescu, M. Maricaru, “Consideration on the Electrical and Magnetical Stimulation of the Heart”, Proceedings of SNET'04 (Simpozionul Național de Electrotehnică Teoretică), CD-ROM, ISBN 973-718-096-8, București, 22-23 oct. 2004, pp.342-351.
- D25) A.Stanciulescu, I. Nemoianu, E. Cazacu, **O. Drosu**, A. Anghel - “Modelation of Magnetic Inductive Displacement Rack Transducer in FEMM”, Proceedings of SNET '04, pag. 234-239, distribuit pe CD, ISBN 973-718-096-8, Bucuresti, oct. 2004.
- D26) **O. Drosu**, - “Numerical Models in Cardiac Stimulation”, Proceedings of SNET '04, pag. 334-342, distribuit pe CD, ISBN 973-718-096-8, Bucuresti, oct. 2004.
- D27) **O. Drosu** – “Computer aided design of a permanent magnet generator for wind

turbines” - revista Electrotehnica-Electronica-Automata - vol. 52 nr.2 ,apr.-iun.2004, pag.23-26, ISSN 1582-5175.

D28) **O. Drosu**, - “Bioelectromagnetismul – conexiune si interdisciplinaritate”, Proceedings of SNET '03, pag. 96-102, distribuit pe CD, Bucuresti, iunie 2003.

D29) **O. Drosu**, M. Vasiliu, F. Hantila, - “Non-Sinusoidal Formulae for Symbolic Analysis of Linear Systems”, Proceedings of ATEE Conference, pag. 86-90, CD distributed, Bucharest, Romania, 2002.

D30) **O. Drosu**, M. Vasiliu, F. Hantila, - “An Efficient Approach to the Non-Sinusoidal Symbolic Analysis of Linear Systems”, Proceedings of SMACD Conference, pag 128-130, Sinaia, Romania, November 2001

D31) T. Maghiar, T. Leuca, S. Nagy, F. Hantila, **O. Drosu**, M. Vasiliu – “A Method of Evaluating the Errors of FEM Numerical Solutions” - Proceedings of RJSAEM, pag. 144-148, Felix Spa, Oradea, Romania, September 2001

D32) T. Maghiar, T. Leuca, F. Hantila, **O. Drosu**, P. Pencioiu – “BEM Approach for Electromagnetic Field Computation in Microwave Ovens” - Proceedings of RJSAEM, pag.149-154, Felix Spa, Oradea, Romania, September 2001;

D33) T. Maghiar, **O. Drosu**, T. Leuca, M. Silaghi, B. Cranganu, F. Hantila – “FEM Approach for Electromagnetic Field Computation in Microwave Ovens” - Proceedings of RJSAEM, pag. 140-143, Felix Spa, Oradea, Romania, September 2001;

D34) P. Pencioiu, **O. Drosu**, V. Turcin, N. Vasile, F. Hantila – “BEM Analysis of the Electromagnetic Field in the Oven Cavity”, Proceedings of EMES Conference Oradea, Romania, May 2001; 7. Cod ISSN: EMES: ISSN-1841-7221

D35) T. Maghiar, **O. Drosu**, T. Leuca, M. Silaghi, S. Nagy, F. Hantila – “Adaptation of the Oven Cavity”- Proceedings of EMES Conference Oradea, Romania, May 2001; 7. Cod ISSN: EMES: ISSN-1841-7221

D36) F. Hantila C. Tugulea, **O. Drosu**, C. Cranganu, T. Leuca – “Direct Computation of the Small Magnetic Field Differences” – Analele Universitatii Oradea, fascicula Electrotehnica, editia 6, 2000 – pag. 7-10, ISSN-1223-2106; (rev B)

D37) F. Hantila C. Tugulea, **O. Drosu**, C. Cranganu T. Leuca – “Fixed Point Methods for Electromagnetic Field Computation” – Analele Universitatii Oradea, fascicula Electrotehnica, editia 6, 2000 – pag. 11-17, ISSN-1223-2106;

D38) **O. Drosu**, A.G. Kladas – “FEM Analysis of a 2D Model for PM Synchronous Wind Generators” – Proceedings of ATEE Conference, pag. 58-64, Bucharest, Romania, Dec. 1998;

D39) **O. Drosu**, A.G. Kladas, M.P. Papadopoulos, J.A. Tegopoulos – “Consideration of Design and Network Integration of Gear-less Permanent Magnet Wind Generators” – Proceedings of ASEC Conference, pag. P01.1-P01.9, Bucharest, Romania, Nov.1998;

D40) **O. Drosu**, A.G. Kladas, M.P. Papadopoulos, – “Consideration of Interactions in Design and Network Integration of Gear-less Permanent Magnet Wind Turbines” – Proceedings of MEDPOWER Conference, Session 4, Volume CD distributed, Nicosia, Cyprus, Nov. 1998;

D41) **O. Hincea (Drosu)** – “Optimizarea electrocinetica 3D a electrozilor interni [n stimularea cardiac” - Revista de studii si cercetari pentru biotehnologii, vol. 29-30/1997 (Bioelectricitate si magnetism in bioinginerie), pag. 226-241, Bucure]ti 1997

D42) **O. Hincea (Drosu)** - “Studiul pozitiei optime a electrozilor in defibrilarea cardiaca extracutanata” – Revista de studii si cercetari pentru biotehnologii, vol. 28/1996

(Perspective pentru Biotehnica secolului XXI), pag. 265-284, Bucuresti 1996;
D43) A.M. Morega, B. Ciocarlan, **O. Hincea (Drosu)**, M. Morega, – “Magnetic Excitation of Heart” – Proceedings of the 18th Annual International Conference of IEEE, Engineering in Medicine and Biology Session (EMBS), CD distributed: ISBN 90 - 9010005-9, SOE 9609001, Amsterdam, Holland, Nov. 1996;

E – Brevete -

F – Contracte

F1) Membru (sef lucrari) - Traectorii in camp electromagnetic CNCSIS, IDEI_2010, nr. 682/2009, / 2009-2011 /

F2) Membru (sef lucrari) - Microsisteme de levitatie electromagnetica bazate pe utilizarea materialelor diamagnetice CNCSIS 13/2007, / 2007-2009 /

F3) Membru (sef lucrari) - Fascicule de electroni de joasa energie: generare,diagnoza nedistructiva, dinamica si testare in planul de aplicare - AMCSIT 308/2006, EGRETA / 2007-2008 /

F4) Membru (sef lucrari) - Localizarea si evaluarea dimensiunilor tumorilor de san prin solutionarea problemei inverse de camp CEEX-M1-C2- 5778 /2006-INVTERM / 2006 -2008 /

F5) Membru (sef lucrari) - Dirijarea formarii structurii de solidificare prin intermediul campului electromagnetic CEEX-M1-C2- 4930 /2006-SOLID / 2006 -2008 /

F6) Membru (sef lucrari) - Cercetari privind cresterea sigurantei alimentare prin utilizarea unor procese neconventionale de tratare termica a unor produse alimentare lichide CEEX 40/3/06 - AGRAL / 2006 -2008 /

F7) Membru (sef lucrari) - Impactul campurilor magnetice de natura antropica asupra ecosistemelor CEEX 5761/2006 - ICEMECOS / 2006 -2007 /

F8) Membru (sef lucrari) - Reconstructia formei defectelor prin metode electromagnetice CEEX 79/2005 - MAGNED / 2005 -2007 /

F9) Membru (sef lucrari) - Ecrane feromagnetice pentru campul electromagnetic CNCSIS 52 / 2006-180/x / 2006 – 2007 /

F10) Membru (sef lucrari) - Control nedistructiv in camp magnetic de dispersie CNCSIS 372 /2005-132/x / 2005-2006 /

F11) Membru (asistent) - Cuplaje electromagnetice intre componentele microsistemelor electronice si mecanice CNCSIS 450 / 2004, tema 12 / 2004-2005 /

F12) Membru (asistent) - Erori in procedurile de calcul numeric al campului magnetic CNCSIS 426 / 2002, tema 42 / 2002-2003

F13) Membru (asistent) - Analiza de camp electromagnetic la mici variatii ale configuratiei geometrice CNCSIS 1273 / 2000, tema 47 / 2000-2001

F14) Membru (asistent) - Aplicatoare cu performante imbunatatite utilizate in instalatii cu microunde MCT 504 / 2000, tema B60 / 2000-2001

F15) Membru (doctorand) - Metoda Elementelor de Frontiera vectoriale MCT 6111 / 2000, tema B3 /2000 /

F16) Membru (doctorand) - Calculul fortelor electromagnetice in structuri cu corpuri aflate in miscare MCT 6111 / 2000, tema B87 / 2000 /

F17) Membru (masterand) - Reducerea consumului de energie electrica in procesul industrial de obtinere a aluminiului si in procesul de electroliza ANSTI 836 / 1996, tema A24/ 1996-1997 /

F18) Membru (masterand) - Distributia 3D a curentilor turbionari si a pierderilor Joule pentru corpuri in miscare ANSTI 836 / 1996, tema A44 / 1996-1997 /

F19) Membru (masterand) - Controlul nedestructiv prin metode electromagnetice si termice in tehnica si diagnosticarea tumorilor la san ANSTI 836 / 1996, tema A5 / 1996 /