

**LISTA DE LUCRĂRI**  
**a cadrului didactic CAZACU DUMITRU**

**A. Teza de doctorat**

*Contributii la studiul si calculul campului electromagnetic in linii de transmisie planare de tip strip si microstrip*, Universitatea din Craiova, Inginerie electrică, 2000

**B. Cărți și capitole în cărți publicate în perioada 2008 - 2017**

**B2. Cărți și capitole în cărți de specialitate naționale ca autor (cu ISBN intern)**

1. Dumitru Cazacu, *Metode numerice in ingineria electrica*, Ed.Sitech Craiova (Acreditata CNCISIS), 133 p.ISBN 978 - 606- 11- 3457-1, 2013.

**B6. Îndrumare de laborator, culegere de probleme**

1. Dumitru Cazacu, *Indrumar de laborator la Metode numerice in ingineria electrica*, Ed.Sitech Craiova (Acreditata CNCISIS) 115 p, ISBN 978-606-11-3456-4, 2013

2. Dumitru Cazacu, *Indrumar laborator Compatibilitate electromagnetica*, CD ISBN 978-606-560-358-5 109 p. Ed .Universitatii Pitesti, 2013

3. Dumitru Cazacu, *Indrumar laborator Compatibilitate electromagnetica*, Ed.Sitech Craiova 2014 120 p., 2014

**C. Lucrări (articole) ISI / BDI publicate în perioada 2008 - 2017**

**C2. Articole în volume indexate ISI Proceedings**

1. D.Cazacu, C.Stanescu, I.Popa, *Computation of the reflection coefficient for multilayer radio absorbing materials in lambda/4*, Edited by: Mastorakis NE; Demiralp M; Mladenov V; Bojovic Z.

Source: PROCEEDINGS OF THE 8TH WSEAS INTERNATIONAL CONFERENCE ON SYSTEMS THEORY AND SCIENTIFIC COMPUTATION (ISTAC'08) Book Series: Mathematics and Computers in Science and Engineering Pages: 166-171 Published: 2008 Times Cited in Web of Science Core Collection: 0Total Times Cited: 0Accession Number: WOS:000263293100024Conference Title: 8th WSEAS International Conference on Systems Theory and Scientific ComputationConference Date: AUG 20-22, 2008Conference Location: Rhodos, GREECE Web of Science Categories: Computer Science, Information Systems; Computer Science, Theory & Methods; MathematicsISBN: 978-960-6766-96-1, 2008

2. D.Cazacu,C.Stanescu, *Finite element models of a transmission line for a plane electromagnetic wave in a shielding material*, Edited by: Mastorakis NE; Carstea ISource: FINITE DIFFERENCES, FINITE ELEMENTS, FINITE VOLUMES AND BOUNDARY ELEMENTS Pages: 117-121 Published: 2008 Times Cited in Web of Science Core Collection: 0Total Times Cited: 0Accession Number: WOS:000260248200018Conference Title: Joint Conference of the 1st WSEAS International Conference on Finite Difference - Finite Elements - Finite Volumes - Boundary Elements/1st WSEAS International Conference on Maritime and Naval Science And Engineering,Conference Date: SEP 11-13, 2008,Conference Location: Malta, MALTA,Web of Science Categories: Engineering, Marine; Engineering, Electrical & Electronic; Mathematics, Applied ISBN: 978-960-474-004-8, 2008

3. R.Beloiu, M.Iorgulescu, D.Cazacu, *Vibration monitoring for electrical equipment faults detection using Fast Fourier Transform*, Title: Vibration Monitoring for Electrical Equipment Faults Detection Using Fast Fourier Transform ,Author(s): Iorgulescu, M (Iorgulescu, Mariana); Beloiu, R (Beloiu, Robert); Cazacu, D (Cazacu, Dumitru),Edited by: Lepadatescu D; Mastorakis NE Source: ADVANCES IN MANUFACTURING ENGINEERING, QUALITY AND PRODUCTION SYSTEMS, VOL I Book Series: Mathematics and Computers in Science and Engineering Pages: 34-38 Published: 2009 Times Cited in Web of Science Core Collection: 1Total Times Cited: 1 Accession Number WOS:000275966900003Conference Title: 1st International Conference on Manufacturing Engineering,

Quality and Production Systems Conference Date: SEP 24-26, 2009 Conference Location: Transilvania Univ Brasov, Brasov, ROMANIA Conference Host: Transilvania Univ Brasov Web of Science Categories: Engineering, Manufacturing; Engineering, Mechanical ISBN: 978-960-474-121-2, 2009

4. Dumitru Cazacu, *Comparative assessment of a temperature distribution into different CPU coolers*, Edited by: Lepadatescu D; Mastorakis N Source: ADVANCES IN MANUFACTURING ENGINEERING, QUALITY AND PRODUCTION SYSTEMS, VOL I Book Series: Mathematics and Computers in Science and Engineering Pages: 23-27 Published: 2009 Times Cited in Web of Science Core Collection: 0 Total Times Cited: 0 Accession Number: WOS:000275966900001 Conference Title: 1st International Conference on Manufacturing Engineering, Quality and Production Systems Conference Date: SEP 24-26, 2009 Conference Location: Transilvania Univ Brasov, Brasov, ROMANIA Conference Host: Transilvania Univ Brasov Web of Science Categories: Engineering, Manufacturing; Engineering, Mechanical ISBN: 978-960-474-121-2, 2009

5. D. Cazacu, ; I.Popa, M Iordache, *Finite Element Numerical Experiments on the Absorption of the EMF Radiation in 3D Human Head Models*, Book Group Author(s): IEEE Source: 2009 32ND INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY Book Series: International Spring Seminar on Electronics Technology ISSE Pages: 467-470 Published: 2009 Times Cited in Web of Science Core Collection: 0 Total Times Cited: 0 Accession Number: WOS:000277445500093 Conference Title: 32nd International Spring Seminar on Electronics Technology Conference Date: MAY 13-17, 2009 Conference Location: Brno, CZECH REPUBLIC Web of Science Categories: Engineering, Electrical & Electronic ISBN: 978-1-4244-4260-7, 2009.

6. Cazacu Dumitru, Lefter Emilian, *Theoretical and Numerical Aspects Concerning Magnetostatic Shielding*, Book Group Author(s): UNIV POLITEHNICA BUCHAREST Source: 2011 7TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Book Series: International Symposium on Advanced Topics in Electrical Engineering Published: 2011 Times Cited in Web of Science Core Collection: 0 Total Times Cited: 0 Accession Number: WOS:000310701200113 Conference Title: 7th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Conference Date: MAY 12-14, 2011 Conference Location: Bucharest, ROMANIA Web of Science Categories: Engineering, Electrical & Electronic ISSN: 1843-8571 ISBN: 978-1-4577-0507-6, 2011.

7. Dumitru, Cazacu; Magda, Enescu Florentina; Cristian, Castravete Stefan, *Numerical problems in 3D FEM simulation of harmonic magnetic fields*, Book Group Author(s): IEEE Conference: International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Univ Pitesti, Pitesti, ROMANIA Date: JUN 27-29, 2013 Sponsor(s): IEEE Region 8; IEEE Ind Applicat Soc; IEEE Romania Sect; Univ Pitesti, Fac Elect Comunicatii Calculatoare 2013 INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI) Published: 2013, 2013, (TC\_12\_2013\_DECIE)

8. Cazacu Dumitru, Stoica Constantin, *Teaching computational aspects on the efficiency of the multilayer spherical magnetic shields*, ECAI 2014 - International Conference – 6th Edition, Electronics, Computers and Artificial Intelligence, 23-25 Oct.2014, Bucharest, pp.59-65, Vol. 6 – No. 4/ 2014 ISSN – 1843 – 2115, 2014, (TC\_12\_2014\_DECIE)

9. Stoica Constantin, Cazacu Dumitru, Leonard Melcescu, *Numerical modeling using 2D FEM for a low power dc brushless motor*, ECAI 2014 - International Conference – 6th Edition, Electronics, Computers and Artificial Intelligence, 23-25 Oct.2014, Bucharest, pp.49-53, Vol. 6 – No. 4/ 2014 ISSN – 1843 – 2115, 2014, (TC\_12\_2014\_DECIE)

10. Cazacu Dumitru, Daniel Constantin, C.Stoica, *On the computation of the SAR for a 3D human head model using Ansys HFSS*, ECAI 2015 - International Conference – 7th Edition, Electronics, Computers and Artificial Intelligence, 25-27 June 2015, Bucharest, Romania, pp.81- 84 , Print ISBN:978-1-4673-6646-5, DOI: 10.1109/ECAI.2015.7301257, 2015, (TC\_12\_2015\_DECIE)

11. Stoica Constantin, Cazacu Dumitru, Leonard Melcescu, *3D numerical modeling with FEM operation under load on the alternator claw poles.*, ECAI 2015 - International Conference – 7th Edition, Electronics, Computers and Artificial Intelligence, 25-27 June 2015, Bucharest, Romania, pp.75- 80 , Print ISBN:978-1-4673-6646-5, DOI:10.1109/ECAI.2015.7301256, 2015, (TC\_12\_2015\_DECIE)

12. V.Ionescu, D.Cazacu, *Analysis of Comsol Multiphysics Parallel Performance on a multi-core system*, The 8th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2016, 30 June – 2 July, Ploiesti Romania, 2016, 2016, (TC\_12\_2016\_DECIE)

13. D.Cazacu, V.Ionescu, S.Ionita, E.Virjoghe, *Theoretical and numerical aspects concerning Multishell magnetostatic shields*, The 8th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2016, MW-6 paper, 30 June – 2 July, Ploiesti Romania, 2016, 2016.

### **C3. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale**

1. D.Cazacu, C.Stanescu, *Absorption properties of the radio absorbing materials*, Annals of the University of Craiova, ISSN 1842-4805, Nr.32, pp.206-209, 2008. BDI :<https://journals.indexcopernicus.com/search/details?jmlId=2823&org=ANALELE%20UNIVERSITATII%20ODIN%20CRAIOVA%20-%20Seria%20Inginerie%20electrica,p2823,3.html> Copernicus Master List Journal, 2008
2. Cazacu, C.Stanescu, *Performance analysis of a solenoidal electromagnet*, Scientific Bulletin of the Electrical Engineering Faculty, nr.2 /2011, pp. 5-10, Valahia University, BDI Copernicus Master List Journal <http://www.buletinfie.ro/ro/numere2011-2/A%2001%20-%20pag%205-10%20-%20cazacu%20-%20performance.pdf>, 2011
3. M.Iordache, M.Dogaru, D.Cazacu, D.Niculae, *Dynamic simulation of the synchronous machines*, Scientific Bulletin of the Electrical Engineering Faculty, nr.2 /2011, pp. 25-30, Valahia University, BDI Copernicus Master List Journal [http://www.buletinfie.ro/ro/numere2011-1/A08%20p25-30%20-%20Iordache\\_M\\_Dynamic\\_simulation....pdf](http://www.buletinfie.ro/ro/numere2011-1/A08%20p25-30%20-%20Iordache_M_Dynamic_simulation....pdf), 2011
4. D.Cazacu, C.Castravete, *Efficiency Evaluation via Finite Element Method of 3D Magnetostatic Shields using Different Types of Magnetic Potentials*, IEEE 18th International Symposium for Design and Technology in Electronic Packaging (SIITME 12), IEEE Xplorer pp.25-30, October 25th–28th, Alba Iulia, Romania, 2012. IEEE 18th International Symposium for Design and Technology in Electronic Packaging (SIITME) Year: 2012 Pages: 25 - 30, DOI: 10.1109/SIITME.2012.6384340 IEEE Conference Publications, 2012, (TC\_12\_2012\_DECIE)
5. D.Cazacu, *Factors that influence the magnetostatic shields effectiveness*, Bulletin of Electrical Engineering Faculty, Valahia University of Tirgoviste nr.1/2012, BDI : Copernicus Master List Journal, pp.6-11, ISSN1843-6188 <http://www.buletinfie.ro/ro/index.html>, [http://www.buletinfie.ro/ro/numere2012-1/articol\\_03\\_2012\\_Cazacu.pdf](http://www.buletinfie.ro/ro/numere2012-1/articol_03_2012_Cazacu.pdf), 2012, (TC\_12\_2012\_DECIE)
6. D.Cazacu, *Numerical Problems in 3D Magnetostatic FEM Analysis*, Procc.of the the 15th WSEAS International Conference on automatic control, modelling and simulation ACMOS'13, pp.385-390, Brasov, Romania, June 1-3, 2013. BDI <http://www.wseas.org/cms.action?id=3678> (Scopus, EBSCO, EI Compendex, Engineering Village, Inspec, Ulrich's), 2013, (TC\_12\_2013\_DECIE)
7. A.Mazare, L.Ionescu, D.Cazacu, *Intelligent control of greenhouse environment*, Procc.of The 15th WSEAS International Conference on automatic control, modelling and simulation ACMOS'13, pp.391-395, Brasov, Romania, June 1-3, 2013. BDI : <http://www.wseas.org/cms.action?id=3678> (Scopus, EBSCO, EI Compendex, Engineering Village, Inspec, Ulrich's), 2013, (TC\_11\_2013\_DECIE)
8. F.Enescu, D.Cazacu, *A Study of comparative evaluation of methods for image processing using color features*, Procc.of the 15th WSEAS International Conference on automatic control, modelling and simulation ACMOS'13, pp.395-400, Brasov, Romania, June 1-3, 2013. BDI : <http://www.wseas.org/cms.action?id=3678> (Scopus, EBSCO, EI Compendex, Engineering Village, Inspec, Ulrich's), 2013, (TC\_12\_2013\_DECIE)
9. Dumitru Cazacu, *Theoretical and numerical aspects concerning magnetic force computation for dc solenoidal actuators*, Scientific Bulletin, Electronics and computer science Series, University of Pitesti, Vol 14, Issue 2, pp.5-8, 2014, BDI Copernicus Master List Journal [https://docs.google.com/document/d/1xZdQ0PJwTs1q5xGwo0KqE6aD7eQ0kVE\\_p-FD5WnC7iU/edit](https://docs.google.com/document/d/1xZdQ0PJwTs1q5xGwo0KqE6aD7eQ0kVE_p-FD5WnC7iU/edit), 2014, (TC\_12\_2014\_DECIE)
10. Constantin Stoica, Dumitru Cazacu, Ion Catalin, Leonard Melcescu, *Numerical And Experimental Aspects Concerning The Static and Dynamic Regime Of A Linear Actuator*, Journal of Electrical Engineering, Electronics, Control and Computer Science JEECCS, Numerical And Experimental Aspects Concerning The Static and Dynamic Regime Of A Linear Actuator, Volume 1, Issue 2, pages 31-36, BDI : Index Copernicus, 2015 <http://jeeccs.net/index.php/journal>, 2015, (TC\_12\_2015\_DECIE)
11. Manuel Ionescu, Dumitru Cazacu, *Virtualization impact on COMSOL processor detection*, Nr 2/2015, pp.25- 32, University of Pitesti Scientific Bulletin, Series: Electronics and Computers Science, BDI : Copernicus Master List Journal <https://drive.google.com/file/d/0B3-fEFDWuEITenI0OFRWTFSTWs/view>, 2015, (TC\_12\_2015\_DECIE, TC\_8\_2015\_DECIE)

12. Valeriu Manuel Ionescu; Dumitru Cazacu, *Performance improvement of the Comsol FEM analysis of 3D magnetostatic field problems on mobile computers*, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEEMP) 25-27 May, 2017, Brasov Romania, pp. 171 - 176, 2017, (TC\_19\_2017\_DECIE, TC\_12\_2017\_DECIE)

13. Valeriu Manuel Ionescu; Dumitru Cazacu; Florentina Magda Enescu; Jose Manuel Lopez-Guede, *System using a hybrid application for virtual reality 3D drawing*, 2017 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) 29 June - 1 July 2017, Tirgoviste, Romania, pp. 1 - 6, 2017, (TC\_19\_2017\_DECIE)

#### **F. Granturi / proiecte de cercetare în perioada 2008 - 2017**

##### **F2. Granturi / proiecte câștigate prin competiție națională**

1. *Spectroscopia dielectrică - o tehnologie inovativă pentru diagnosticarea izolației echipamentelor energetice*, Parteneriate în domenii prioritare Beneficiar CNMP 22100/01.10.2008 – 2011 Colectiv : Cazacu D. (responsabil proiect partener), Stanescu Constantin, Popa Ilie, Robert Beloiu [http://www.icmet.ro/sd\\_r.htm](http://www.icmet.ro/sd_r.htm), 2008

2. CAZACU DUMITRU, BIZON NICU, OPROESCU MIHAI, IONESCU LAURENTIU MIHAI, MAZARE ALIN GHEORGHITA, CAZACU DUMITRU, CONSTANTINESCU LUMINITA MIRELA, *Concept Development of an Energy Storage Unit Using High Temperature Superconducting Coil for Spacecraft Power Systems (SMESinSpace)*, Cod: CDI STAR, beneficiar: European Space Agency within STAR (Space Technology and Advanced Research), anul: 2017, domeniul stiintific: Technology & Science Support, valoare: 40887.00, 2017.

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**Cadrul didactic CAZACU DUMITRU**

**Semnătura**