

Listă de lucrări, conform Art. 15 din Metodologia cadru

a) Lista celor 10 lucrări relevante:

1. **Dan IUDEAN**, Radu Munteanu jr., Florentina-Ancuta Cadar, Petru-Marius Maier, Alexandru Bogdan Amza, *"Reliability calculus for an experimental device performing quantitative analysis of alcohol vapors from exhaled air"*, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015, ISBN 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE
2. **Dan IUDEAN**, Radu, Munteanu, Valentin Zaharia, Mirela Dobra – *"Reliability Indicators Analysis for the Cam Box Module of Industrial Knitting Machines"*, in 2014 49th International Universities Power Engineering Conference (UPEC), 2014.
3. Gabriela TONȚ, Radu Adrian MUNTEANU, Dan George TONȚ, **Dan IUDEAN** - *"Aspects Regarding the Unidirectional Two-Port Circuits Implemented by Means of Electronic Gytrators"*, Journal - Advances in Electrical and Computer Engineering, Volume 16, Number 1, 2016, pp. 89-94, JCR Impact Factor: 0.529, JCR 5-Year Impact Factor: 0.476, Journal Citation Reports® 2014 Science Edition, Published by Thomson Reuters in 2015, <http://www.aece.ro/abstractplus.php?year=2016&number=1&article=12>, DOI: 10.4316/AECE.2016.01012.
4. R., Munteanu, A. Vulea, **D. IUDEAN**, R. Copindean – *"Carbon Monoxide Pollution Map in the Center of Cluj-Napoca City"*, in 2015, 13th International Conference on Engineering of Modern Electric Systems (EMES), 2015.
5. R., Munteanu, **D. IUDEAN**, C. Muresan, V. Petean – *"Access System in Restricted Areas Based on Programmable Logic Controller and GSM Modem"*, in 2015, 13th International Conference on Engineering of Modern Electric Systems (EMES), 2015.
6. Radu, Munteanu, **Dan IUDEAN**, Mihai Munteanu, Rozica Moga, Mirela Trusca, Vasile Dorca – *"High-precision measurements of very small displacements using the laser vibration meter"*, in Proceedings of the 9th WSEAS International Conference on Automation and Information, pp. 293-296, 2008.
7. **IUDEAN, M.D.**, Drăgan I Florin, Munteanu Radu jr., Djerdir Abdesslem, Miraoui Abdellatif - *"Evaluation of D.C. Motor Variable Torque Components From Measurement of Stator Angular Vibrations"*, The twelfth biennial IEEE conference on electromagnetic field computation (CEFC 2006), Miami, Florida, USA, 2006, pg.302
8. **D. IUDEAN**, R. Munteanu jr., C. Muresan, V. D. Zaharia, Nicoleta Pop, F. Ardelean – *"Digital Medical Audiometer"*, Acta Electrotehnica, vol. 55, number 1-2, 2014, pp. 65-70, ISSN: 2344-5637, ISSN-L: 1841-3323
9. **D. IUDEAN**, R. Munteanu Jr., C. Mureșan, A. Plop, A. I. Paul - *"Indicating Device for Measuring Blood Alcohol"*, Acta Electrotehnica Volume 55, Number 3-4 ISSN 1841-3323, 2014, Cluj-Napoca, Romania, pp. 131-135
10. Selejan O, Muresanu DF, Popa L, Muresanu-Oloeriu I, **IUDEAN D**, Buzoianu A, Suciuc S, *"Credibility judgments in web page design – a brief review"*, Journal of Medicine and Life, Vol. 9, Issue 2, April-June 2016, pp.115-119, Print ISSN 1844-122x, Online ISSN 1844 – 3117

b) Teza de doctorat:

1. **Mircea Dan IUDEAN** – “*Cercetări privind influența vibrațiilor asupra fiabilității motoarelor electrice și algoritmi pentru optimizarea proiectării acestora*” Conducători Științifici: Prof. dr. ing. Radu MUNTEANU, Prof. dr. ing. Abdellatif MIRAOUI, Susținută: 01.07.2008, Cluj-Napoca, Romania (Teză în co-tutelă)

c) Brevete de invenție:

d) Cărți și capitole în cărți:

1. **IUDEAN, M.D.** - “*Reliability and Availability of Repairable Systems*”, ISBN 978-973-662-385-1, Editura U.T.PRESS, Cluj-Napoca, 2008 (40 pag.)
2. **IUDEAN Dan** - “*Influența vibrațiilor asupra fiabilității motoarelor electrice și algoritmi pentru optimizarea proiectării acestora*”, ISBN 978-973-713-337-3, Editura Mediamira, 2016 (189 pag.)
3. **IUDEAN Dan**, Radu Munteanu jr., Mircea Buzdugan, Eudor Flueraș, Alex Crețu – “*Măsurări electrice și electronice - îndrumător de laborator*”, ISBN 978-973-713-338-0, Editura Mediamira, 2016 (141 pag.)

e) Articole/studii în extenso, publicate în reviste din fluxul științific internațional principal:

ISI:

1. Gabriela TONȚ, Radu Adrian MUNTEANU, Dan George TONȚ, **Dan IUDEAN** - „*Aspects Regarding the Unidirectional Two-Port Circuits Implemented by Means of Electronic Gytrators*”, Journal - Advances in Electrical and Computer Engineering, Volume 16, Number 1, 2016, pp. 89-94, JCR Impact Factor: 0.529, JCR 5-Year Impact Factor: 0.476, Journal Citation Reports® 2014 Science Edition, Published by Thomson Reuters in 2015, <http://www.aece.ro/abstractplus.php?year=2016&number=1&article=12>, DOI: 10.4316/AECE.2016.01012.

BDI/B+:

2. **IUDEAN, M.D.** - “*Electromagnetic Forces in a Permanent Magnet Synchronous Machine with an Eccentric Rotor*”, ACTA ELECTROTEHNICA, vol.45, nr.5, 2004, pg.568-572
3. **IUDEAN, M.D.**, Djerdir, A., Miraoui, A. - “*Induced Vibrations of an Eccentric Rotor for a Permanent Magnet Synchronous Machine*”, ELECTROMOTION, vol. XI, nr.4, 2004, pg.198-204
4. **D. IUDEAN**, R. Munteanu jr. „*Vibrations Influence on the MS-1 N-8811 Permanent Magnet Synchronous Motors Reliability*”, ACTA ELECTROTEHNICA, vol.53, nr.3, 2012, pg.246-250 ISSN 1841-3323
5. Nicoleta Sarlea, R. Munteanu jr., **D. IUDEAN**, A. Cretu “*Reliability Analysis for the Fabric Take-Down Module of Industrial Knitting Machines*” ACTA ELECTROTEHNICA, vol.54, nr.3-4, 2013, pg.163-167 ISSN-L 1841-3323 ISSN 2344-5637

6. Nicoleta Sarlea, **D. IUDEAN**, R. Munteanu jr. “*Reliability Indicators Analysis for Sliding System of Industrial Knitting Machines*” ACTA ELECTROTEHNICA, vol.54, nr.3-4, 2013, pg.204-209 ISSN-L 1841-3323 ISSN 2344-5637
7. **D. IUDEAN**, R. Munteanu jr., C. Muresan, V. D. Zaharia, Nicoleta Pop, F. Ardelean – „*Digital Medical Audiometer*”, Acta Electrotehnica, vol. 55, number 1-2, 2014, pp. 65-70, ISSN: 2344-5637, ISSN-L: 1841-3323
8. R. Munteanu Jr., Eva-Henrietta Dulf, C. Feștilă, **D. IUDEAN** – „*Power Transducer for DC Circuits*”, Acta Electrotehnica, vol. 55, number 1-2, 2014, pp. 80-82, ISSN: 2344-5637, ISSN-L: 1841-3323
9. C. Muresan, **D. IUDEAN**, R. Munteanu Jr., V. D. Zaharia – „*Discrete Time Signal Phase Shifting Using TFD*”, Acta Electrotehnica, vol. 55, number 1-2, 2014, pp. 89-93, ISSN: 2344-5637, ISSN-L: 1841-3323
10. V. D. Zaharia, **D. M. IUDEAN**, B. Țebrean, F. Drăgan, T. E. Crișan - „*Implementing a Distributed Measurement System – a Case Study*”, Acta Electrotehnica Volume 55, Number 3-4 ISSN 1841-3323, 2014, Cluj-Napoca, Romania, pp. 127-130
11. C. Mureșan, B. Țebrean, A.O. Mârza, **D.M. IUDEAN** – „*LabVIEW Application for Implementing the Instantaneous Power Theory in a Three Phase System*”, Acta Electrotehnica Volume 55, Number 3-4 ISSN 1841-3323, 2014, Cluj-Napoca, Romania, pp. 120-126
12. **D. IUDEAN**, R. Munteanu Jr., C. Mureșan, A. Plop, A. I. Paul - „*Indicating Device for Measuring Blood Alcohol*”, Acta Electrotehnica Volume 55, Number 3-4 ISSN 1841-3323, 2014, Cluj-Napoca, Romania, pp. 131-135
13. **D. IUDEAN**, „*Reliability Analysis through Block Diagram for Small Electric Motors*”, Acta Electrotehnica, Volume 56, Number 5, ISSN 2344-5637, ISSN-L 1841-3323, 2015, Cluj-Napoca, Romania, pp. 241-244
14. A. Cretu, R. Munteanu Jr., **D. IUDEAN**, C. Mureșan, Rozica Moga „*A Failure Mode and Effect Analysis (FMEA) for a Commercial PC Cooling Fan*”, Acta Electrotehnica, Volume 56, Number 5, ISSN 2344-5637, ISSN-L 1841-3323, 2015, Cluj-Napoca, Romania, pp. 236-240
15. Selejan O, Muresanu DF, Popa L, Muresanu-Oloeriu I, **IUDEAN D**, Buzoianu A, Suciuc S, „*Credibility judgments in web page design – a brief review*”, Journal of Medicine and Life, Vol. 9, Issue 2, April-June 2016, pp.115-119, Print ISSN 1844-122x, Online ISSN 1844 – 3117

f) Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate:

ISI:

16. R., Munteanu, A. Vulea, **D. IUDEAN**, R. Copindean – “*Carbon Monoxide Pollution Map in the Center of Cluj-Napoca City*”, in 2015, 13th International Conference on Engineering of Modern Electric Systems (EMES), 2015.
17. R., Munteanu, **D. IUDEAN**, C. Muresan, V. Petean – “*Access System in Restricted Areas Based on Programmable Logic Controller and GSM Modem*”, in 2015, 13th International Conference on Engineering of Modern Electric Systems (EMES), 2015.
18. **Dan IUDEAN**, Radu, Munteanu, Valentin Zaharia, Mirela Dobra – “*Reliability Indicators Analysis for the Cam Box Module of Industrial Knitting Machines*”, in 2014 49th International Universities Power Engineering Conference (UPEC), 2014.

19. Radu, Munteanu, **Dan IUDEAN**, Mihai Munteanu, Rozica Moga, Mirela Trusca, Vasile Dorca – *“High-precision measurements of very small displacements using the laser vibration meter”*, in Proceedings of the 9th WSEAS International Conference on Automation and Information, pp. 293-296, 2008.
20. M. Apetroae, M. Munteanu, R. Munteanu, **D. IUDEAN** – *“The Citation Dynamics of Romanian Scientific Papers Between 2001-2005”*, in Quality Management in Higher Education, Proceedings, pp. 315-320, 2008.
21. R. Munteanu, M. Apetroae, M. Munteanu, **D. IUDEAN** – *“Scientific Publications Market and Open-Access Policies”*, in Quality Management in Higher Education, Proceedings, pp. 553-557, 2008.

BDI/B+:

22. **IUDEAN, M.D.**, Drăgan I Florin, Munteanu Radu jr., Djerdir Abdesslem, Miraoui Abdellatif - *“Evaluation of D.C. Motor Variable Torque Components From Measurement of Stator Angular Vibrations”*, The twelfth biennial IEEE conference on electromagnetic field computation (CEFC 2006), Miami, Florida, USA, 2006, pg.302
23. Gavriș, A. S., **IUDEAN, M.D.**, Munteanu, R. A., Aroquidassou, G. - *“Vector Control of a Six Phase Inverter for Future Application in Electrical Assisted Direction”* International Conference on Modern Power Systems MPS 2006(IEEE), pg.237-242
24. Dorca, V.D., Munteanu, R. jr., **IUDEAN, M.D.** – *“Precision Measurement Method for Small Displacements Using the Laser Vibration Meter”*, Proceedings of the 15th IMEKO TC 4 International Symposium on Novelties in Electrical Measurements and Instrumentations, vol. II, pg. 548-551, September 18 – 22, 2007, Iași, România
25. R. A. Munteanu, M. Munteanu, M. Apetroae, **D. IUDEAN** – *“Impact Factors and Scientific Journal Ranking-A Case Study”* The 5th International Seminar on the Quality Management in Higher Education, 12-14 June 2008, Tulcea, Romania, pg. 259-264, indexed in the “ISI Web of Knowledge”
26. A. S. Gavris, R. Munteanu jr., B. Zagar, **M.D. IUDEAN**, M. Munteanu, Diana Popovici – *“Controlling a DC Motor with a P-I Regulator Using a DSP”* The 2nd International Conference on Modern Power Systems 2008 (MPS 2008), 12-14 November 2008, Cluj-Napoca, Romania, pg. 357-360
27. Traian Crețu, Lorand Szabo, Radu A. Munteanu, **Dan IUDEAN** – *“On Fault Detection and Fault Tolerant Performance of Permanent Magnet Synchronous Motor Drives”* The XXIII, microCAD International Scientific Conference, 19-20 March 2009, Miskolc, Hungary, pg. 101-106
28. Traian Crețu, **Dan IUDEAN**, Lorand Szabo, Radu A. Munteanu – *„Study on the Influences of Degraded Stator and Rotor Materials on PMSM Vibrations”*, The XXIV, microCAD International Scientific Conference, 18-20 March 2010, Miskolc, Hungary, pg. 133-138
29. **D. IUDEAN**, R. Munteanu jr., R. Dragomirescu and M. Buzdugan *„MS-1 N-8811 Permanent Magnet Synchronous Motor Reliability Calculation”*, 4th International Conference on Modern Power Systems MPS 2011, 17-20 Mai 2011, Cluj-Napoca, Romania, pg. 233-236
30. R. A. Munteanu, **D. IUDEAN**, V. Zaharia, C. Muresan and T. Cretu *„Implementing an Failure Mode and Effect Analysis for Small and Medium Electric Motors Powered from Photovoltaic Panels”* 2nd IFAC Workshop, Convergence of Information Technologies

- and Control Methods with Power Systems, ICPS'13, 2013, 22-24 may, Cluj-Napoca, Romania, pg. 81-84 <http://www.ifac-papersonline.net/Detailed/59781.html>
31. **D. IUDEAN**, R. Munteanu jr., V. Zaharia, C. Muresan and M. Arion „*Influence of Parasite Vibrations on the Electromagnetic Forces of a Permanent Magnet Synchronous Motor*”, 5th International Conference on Modern Power Systems MPS 2013, 28-31 Mai 2013, Cluj-Napoca, Romania, pg. 233-236
 32. **D. IUDEAN**, R. Munteanu jr., P. Bechet, C. Muresan, A. Crețu „*Reliability Indicators and a Failure Mode and Effect Analysis Calculation for a Holter Recorder*”, IFMBE Conference, MediTech 2014, Advancements of Medicine and Health Care Through Technology, June 5-7, 2014, Cluj-Napoca, Romania, Proceedings 44, pg.113-118, DOI: 10.1007/978-3-319-07653-9_23, Springer International Publishing Switzerland 2014, ISSN 1680-0737 ISSN 1433-9277 (electronic), ISBN 978-3-319-07652-2 ISBN 978-3-319-07653-9 (eBook), DOI 10.1007/978-3-319-07653-9, Springer Cham Heidelberg New York Dordrecht London, Library of Congress Control Number: 2014939994
 33. R. Munteanu jr., C. Mureșan, **D. IUDEAN**, M. Munteanu, B. Amza “*Didactic Application for Monitoring Biomedical Parameters and Data Transfer Over the Network Using Virtual Instrumentation*”, IFMBE Conference, MediTech 2014, Advancements of Medicine and Health Care Through Technology, June 5-7, 2014, Cluj-Napoca, Romania, Proceedings 44, pg.87-92, DOI: 10.1007/978-3-319-07653-9_18, Springer International Publishing Switzerland 2014, ISSN 1680-0737 ISSN 1433-9277 (electronic), ISBN 978-3-319-07652-2 ISBN 978-3-319-07653-9 (eBook), DOI 10.1007/978-3-319-07653-9, Springer Cham Heidelberg New York Dordrecht London, Library of Congress Control Number: 2014939994
 34. C. Mureșan, V. D. Zaharia, **D. IUDEAN**, T. E. Crisan, R. Copîndean „*Computing the Symmetrical Components of a Three Phase System Using TFD*” 6th International Conference on Modern Power Systems MPS 2015, 18-21 Mai 2015, Cluj-Napoca, Romania, pg. 199-203
 35. A. R. Vulea; **D. IUDEAN**; R. A. Munteanu; C. Muresan; R. Copindean „*Carbon Monoxide Levels in a Medium Size European City*” 6th International Conference on Modern Power Systems MPS 2015, 18-21 Mai 2015, Cluj-Napoca, Romania, pg. 374-377
 36. **Dan IUDEAN**, Radu Munteanu jr., Titus Crișan, Alexandru Crețu and Carla Costea, „*Reliability Indicators for Mass Production Laser Pointer*”, 10th International Conference on Electromechanical and Power Systems, 6 October 2015, Craiova, România / 8-9 October 2015, Chișinău, Rep. of Moldova, SIELMEN 2015, pg. 508-511, ISBN 978-606-567-284-0
 37. **Dan IUDEAN**, Radu Munteanu jr., Florentina-Ancuta Cadar, Petru-Marius Maier, Alexandru Bogdan Amza, ”*Reliability calculus for an experimental device performing quantitative analysis of alcohol vapors from exhaled air*”, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015, ISBN 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE
 38. Alexandru Cretu, Radu Munteanu jr., **Dan IUDEAN**, Victor Vladareanu, Clement Festila – „*Markov Analysis of an Induction Motor*” The 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2016) - THETA 20th edition

organized under the IEEE Computer Society - TTTC (Test Technology Technical Council), QT1/13, 6 pg.

g) Alte lucrări și contribuții științifice:

Crerere de brevet:

1. V. Zaharia, S. Crisan, R. Munteanu, T. Crisan, B. Tebrean, **D. IUDEAN**, C. Muresan, V. Popa, R. Munteanu "*Aparat electronic pentru facilitarea interacțiunii cu mediul a persoanelor cu deficiențe de vedere*" ("*Electronic device for facilitating the interaction of visually impaired individuals with the environment*"), Număr cerere de brevet a 2014 00405

Membru în cadrul contractului:

1. Dezvoltarea tehnologiilor de instrumentație virtuala în vederea implementării standardelor metrologice si de calitate in ingineria electrica. Ministerul Invatamantului, Direcția Invatamantului Superior si Cercetării Științifice Universitare, 1999-2002.
2. Program de pregătire postuniversitara prin studii aprofundate si doctorat „Sisteme avansate de măsurare si procesarea semnalelor”. Contract CNCSIS (BM) 2000-2002.
3. Stand pentru simularea experimentală si controlul unui grup motopropulsor hibrid destinat minivehiculelor urbane, CNCSIS AT nr.607/2003.
4. Cercetări privind tehnici de recuperare și prelucrare a informației de măsurare în circuite și sisteme electrice, Contract CNCSIS 33385/29.06.2004, continuare 2005-2006, Tema A38, cod CNCSIS 889, valoare 22000 RON.
5. Dezvoltarea tehnicilor aplicative de detecție sincronă în timp discret pentru măsurarea parametrilor circuitelor electrice, Contract AT CNCSIS 2007, valoare contract 80.000 RON.
6. Platforma integrată de cercetare si formare pentru producție inovativă CNCSIS 2006-2008
7. Mathematical modeling of electromagnetic field for optical fiber sensors, using the finite element method CNCSIS 1299/2006
8. Sistem automat cu control în timp real configurabil și modular pentru alimentare caprine, PN2 Inovare: Contractor asociat - Partener Universitatea Tehnică din Cluj-Napoca, 2007-2009
9. Sistem de automatizări complexe modulare cu dispecerizare la distanță pentru controlul fluxului tehnologic al morilor de grâu și/sau porumb - AUTMPG, Contract de finanțare nr. 1250/2007, PN II Inovare: Contractor asociat - Partener P2: Universitatea Tehnică din Cluj-Napoca, 2007-2009.
10. "Hypertermic Intra-Peritoneal Chemotherapy Equipment based on Cyber-Physical System Paradigm" Project no. PN-II-RU-TE-357/01.10.2015, funded by the Romanian Ministry of Education and Research, UEFISCDI, (2015-2017)

Echipa de management a proiectului:

11. Parteneriat transnațional pentru dezvoltarea învățământului preuniversitar tehnic prin aplicarea sistemului german de „proiecte pentru lucrări practice” în atelierelor școlare din

România, POSDRU/87/1.3/S/64234 (suma: 16.575.778,44 lei, suma totală: 16.914.059,63 lei (fără TVA)), poziția Responsabil sistem de management integrat

Manager proiect (contracte cu tertii):

12. Collaboration between Emerson and Technical University of Cluj-Napoca (2014 – 2015) concerning Quality and Reliability 9.200 lei

Manager proiect:

13. Contract de cercetare nr. 34/22.04.2016, Academia de Științe Tehnice din România - Concursul național de proiecte de cercetare pentru industrie, finanțate de beneficiari industriali, deschis tinerilor cercetători din România, desfășurat în anul 2015, „*Modelarea fiabilității unui sistem de compresoare acționate cu motoare electrice și proiectarea unui sistem distribuit de monitorizare care să susțină mentenanța preventivă a acestora*”, Perioada de desfasurare 2016-2018, Numar ani desfasurare 2, 54.000 lei

Lucrări de cercetare:

1. **IUDEAN, M.D.**, Ferreira L. L. - “*Developing Tools for C.A.N. Networks*” Final paper of the JEP-09150/97 in the frame of Tempus Programme, Portugal, 1998
2. **IUDEAN, M.D.** - “*Reliability and Availability of Repairable Systems*”, D.A.A.D. Summer Academy Ohrid, Macedonia 2000
3. **IUDEAN, M.D.** - “*Etude de l’influence des vibrations sur les performances des machines synchrones a aimants permanents*”, Lucrare prezentată în cadrul laboratorului de cercetare L2ES Exposé des Travaux de Recherche, Belfort, Franța, 2004

Cluj-Napoca,

10 iunie 2016

S.I. dr. ing. Mircea Dan IUDEAN



