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Universitatea Tehnică din Cluj-Napoca  
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Conf. dr. ing. Mircea Ion BUZDUGAN

## LISTA lucrărilor științifice

### A – Teza de doctorat (cum laude)

„**Contribuții privind interferența electromagnetică pe rețelele de joasă tensiune**”  
conducător științific : Prof.dr.ing. Emil SIMION  
Universitatea Tehnică din Cluj-Napoca  
Susținere publică: *octombrie 2007.*

### B – Cărți și capitole în cărți publicate în ultimii 10 ani

#### CĂRȚI

1. **Mircea Ion Buzdugan - Elemente de mașini electrice – Funcționare și utilizare**, Editura UT PRES, 2006, 148 pagini, ISBN 978-973-662-226-7;
2. **Mircea Ion Buzdugan - Compatibilitate electromagnetică – Interferențe conduse**, Editura Mediamira, 2008, 176 pagini, ISBN 978-973-713-206-2;
3. **Mircea Ion Buzdugan – Mașini electrice – Principii și aplicații**, Editura UT PRESS, 2016, 202 pagini, ISBN 978-606-737-164-2ș
4. **Mircea Ion Buzdugan – Mașini electrice – îndrumător de laborator** - Editura UT PRESS, 2016, 148 pagini, ISBN 978-973-662-226-7;
5. **Mircea Ion Buzdugan – Elemente de calitatea energiei electrice și compatibilitate electromagnetică** – Editura MEDIAMIRA, 2016, 247 pagini, ISBN 978-606-737-164-2;
6. Iudean Dan, Radu Munteanu jr., **Mircea Buzdugan**, Eudor Flueraș, Alexandru Crețu, Măsurări electrice și electronice – îndrumător de laborator, Editura MEDIAMIRA, 2016, 150 pagini; ISBN 978-973-713-338-1
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#### CAPITOLE DE CARTE

1. **Mircea Ion Buzdugan**, Horia Bălan, Are Power Quality and Electromagnetic Compatibility Dichotomous?, **Power Quality**, Cambridge Scholars Publishing House, London, 2016, ISBN-13: 978-1-4438-9493-7, 17 pagini
2. Bălan H, **Buzdugan M.I.**, Karaisas, P., Fault identification on electrical machines based on experimental analysis (Book Chapter), Lecture Notes in Mechanical Engineering, Springer Science + Business Media, ISSN:2195-4356E, 2014, 19 pagini

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## C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani

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1. Balan, H.; **Buzdugan, M. I.**; Karaisas, P., **Fault Identification on Electrical Machines Based on Experimental Analysis**, International Conference on Condition Monitoring of Machinery in Non-Stationary Operations (CMMNO) Location: Ferrara, ITALY, 2013, Advances in Condition Monitoring of Machinery in Non-Stationary Operations, Book Series: Lecture Notes in Mechanical Engineering pp. 611-630
2. Balan, Horia; Tirnovan, Radu; **Buzdugan, Mircea I.**, **Commutation technique in the supply of electromagnetic actuators**, IET POWER ELECTRONICS Volume: 7 Issue: 1 Pages: 132-140 Published: JAN 2014
3. Balan, H. ; **Buzdugan, M.**; Cozorici, I.; Karaisas, P., **Signal Processing Software Techniques for the Monitoring and the Diagnosis of the Wind Turbines**, 4th International Symposium on Electrical and Electronics Engineering (ISEEE) Location: Dunarea de Jos Univ Galati, Galati, ROMANIA Date: OCT 11-13, 2013 **Published: 2013**
4. Balan, H.; **Buzdugan, M. I.**; Chiorean, C.; Karaisas, P., **Reduction of the distortion current factor of the current drawn by the electromagnetic vibrators supplied at variable frequency**, 7th Japanese-Mediterranean and Central European Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials Location: Budapest, HUNGARY Date: JUL 06-09, 2011, Book Series: Materials Science Forum Volume: 721 Pages: 275-280 **Published: 2012**
5. Balan, H.; **Buzdugan, MI**; Chiorean, C; Iacob, A; Karaisas, P., **A Passive EMI Filter for the Reduction of Active Filter Generated Network Distortions**, 11th International Conference on Applied and Theoretical Electricity (ICATE) Location: Craiova, ROMANIA Date: OCT 25-27, 2012
6. **Buzdugan, Mircea I.**; Balan, Horia, **Some Practical Considerations in Electromagnetic Biocompatibility**, International Workshop on Electromagnetic Compatibility and Engineering in Medicine and Biology Location: Iasi, ROMANIA Date: OCT 28-30, 2010
7. **Buzdugan, M. I.**; Balan, H.; Munteanu, R.; Munteanu RA, **A Practical Procedure in Assessing Power Quality in Power Converters**, 7th International Conference on Management of Technological Changes Location: Alexandroupolis, GREECE Date: SEP 01-03, 2011, Book 1 Pages: 481-484 **Published: 2011**
8. **Buzdugan, M. I.**; Buzdugan, T. I.; Balan, H., **Considerations on Electromagnetic Compatibility for Medical Devices**, 3rd International Conference on Advancements of Medicine and Health Care through Technology, Location: Cluj Napoca, ROMANIA Date: AUG 29-SEP 02, 2011, Book Series: IFMBE Proceedings Volume: 36 Pages: 94-99 **Published: 2011**
9. Balan, H; **Buzdugan, M**; Vadan, I; Simion, E; Karaisas, P., **Hybrid Commutation Converter in HVDC Systems**, 6th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic Superconducting and Nanomaterials Location: Bucharest, ROMANIA Date: JUL 27-29, 2009 Book Series: Materials Science Forum Volume: 670 Pages: 415-424 **Published: 2011**
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  12. **Buzdugan, Mircea-Ion**; Munteanu, Radu; Munteanu, Radu A. **Receiving Consistent Feed-Back from Students - A Crucial Issue for Educationists**, 6th International Seminar on the Quality Management in Higher Education Location: Tulcea, ROMANIA Date: JUL 08-09, 2010
  13. **Buzdugan, Mircea-Ion**; Munteanu, Radu; Munteanu, Radu A.; Neidoni, N., **Employability, Enterprise and Entrepreneurial Education of Graduates in Economic Crisis Times**, 6th International Seminar on the Quality Management in Higher Education Location: Tulcea, ROMANIA Date: JUL 08-09, VOL 1 Pages: 535-538 **Published: 2010**
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  15. Balan, H; **Buzdugan, MI**; Munteanu, R; Vadan, I; Botezan, A; Ricobon, A, **A Design Method for EMI Filters Mitigating Perturbations Generated by a PWM Converter**, International Conference on Clean Electrical Power (ICCEP 2009) Location: Capri, ITALY Date: JUN 09-11, (ICCEP 2009), Vols 1 and 2 Pages: 434-438 **Published: 2009**
  16. Balan, H; Munteanu, R; **Buzdugan, M**; Vadan, I. **Practical Procedures in Determining the Differential Mode Characteristics of EMI Power Supply Filters**, Advances in Electrical and Computer Engineering Volume: 9 Issue: 2 Pages: 65-69 **Published: 2009**
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  19. Horia, B (Horia, Balan); Augustin, PA (Augustin, Pop Adrian); Mircea, B (**Mircea, Buzdugan**) ; Ioan, B (Ioan, Berinde), **Analysis of multilevel converters operation through programmable source emulators**, 49th International Universities Power Engineering Conference (UPEC), **Published: 2014**
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  21. Balan, H (Balan, Horia); Pop, AA (Pop, Adrian Augustin); Buzdugan, M (**Buzdugan, Mircea**); Munteanu, RA (Munteanu, Radu Adrian), **Performances Optimization and Characteristics of the Voltage Generated by Multilevel Inverters**, International Conference on Applied and Theoretical Electricity, (ICATE), **Published: 2014**
  22. **Buzdugan, M.**, Balan, H., **Performances of the Anti-Perturbation Filters for Current Distortion Factor Reduction**, International Conference on Applied and Theoretical Electricity (ICATE), **Published: 2014**

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23. Munteanu, RA (Munteanu, Radu Adrian); Balan, H (Balan, Horia); Pop, AA (Pop, Adrian Augustin); Buzdugan, M (**Buzdugan, Mircea**), **Wavelet Analysis in Monitoring and Diagnosis of Power Circuit Breakers**, International Conference on Applied and Theoretical Electricity (ICATE), Published: 2014
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  27. Neidoni, N; **Buzdugan, M**, A Reinforcing Method of Corrugated Fiberboard Boxes, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering Volume: 58 Issue: 1 Pages: 67-72 Published: Mar 2015
  28. Balan, H; Neamt, L ; **Buzdugan, MI**; Varodi, T; Pop, E, Fault current limiter with solid-state circuit breakers Edited by: Lemle, LD View ResearcherID and ORCID INTERNATIONAL CONFERENCE ON INNOVATIVE IDEAS IN SCIENCE (IIS2015), Book Series: IOP Conference Series-Materials Science and Engineering, International Conference on Innovative Ideas in Science (IIS), 2015, Volume: 44 Article Number: 01200, DOI:10.1088/1757-899X/144/1/012001, Published: 2016
  29. Balan, H; **Buzdugan, MI**; Varodi, T; Munteanu, RA, Monitoring power breakers using vibro acoustic techniques 2016 INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE) Book Series: International Conference on Applied and Theoretical Electricity, International Conference on Applied and Theoretical Electricity (ICATE).

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1. **Buzdugan, M.**, Balan, H., Design and test procedures for EMI filters used for nonlinear loads, **Materials Science Forum**, 2014 792, pp. 133-138 ISSN: 1662-9752, Scopus
2. Balan, H., **Buzdugan, M.**, Pop, A.A., Series resonance technique for short-circuit current limiting devices in DC grids, **Materials Science Forum**, 2014, 792, pp. 293-298, ISSN: 1662-9752, Scopus
3. **Buzdugan, M.I.**, Simion, E, Extremely low frequency magnetic fields and health risks **Journal of Electrical and Electronics Engineering** 2 (2), pp. 13-16, 2009 P-ISSN: 1844-6035  
E-ISSN: 2067-2128, CD-ISSN: 2067-211X, Scopus
4. Dumitru SPERMEZAN, **Mircea I. BUZDUGAN**, Horia BALAN, STRUCTURAL MONITORING OF WIND TURBINES USING SENSORS CONNECTED VIA UTP CABLE **Carpathian Journal of Electrical Engineering** Volume 11, Number 1, 2017, ISSN 1843-7583, IET Inspec Direct, Ulrich's web, EBSCO, Index Copernicus, ProQuest

5. Horia BALAN, **Mircea I. BUZDUGAN**, Ionuț IANCAU, Liviu NEAMT, TESTING SOLUTIONS OF THE PROTECTION SYSTEMS PROVIDED WITH DELAY MAXIMUM CURRENT RELAYS, **Carpathian Journal of Electrical Engineering** Volume 11, Number 1, 2017 ISSN 1843-7583, IET Inspec Direct, Ulrich's web, EBSCO, Index Copernicus, ProQuest
6. **Mircea Buzdugan**, Horia Balan, Electromagnetic compatibility issues of brushless speed drives 2016 51st International Universities Power Engineering Conference (UPEC) 6-9 Sept. 2016, ieeexplore
7. **Mircea Buzdugan**, Horia Balan, Power system harmonics issues in some end user facilities 2017 52st International Universities Power Engineering Conference (UPEC) 28-31 Aug., ieeexplore
8. **Buzdugan, M.I.**, Bălan, H., Mureșan, D.T., An electrical power quality problem in an emergency unit from a hospital - Case study SPEEDAM 2010 - International Symposium on Power Electronics, Electrical Drives, Automation and Motion, Scopus
9. Horia Balan; **Mircea Ion Buzdugan**; Radu A. Munteanu, Modeling and simulation of DC resonant circuit breakers 2017 5th International Symposium on Electrical and Electronics Engineering (ISEEE), ieeexplore
10. Balan, H., **Buzdugan, M.I.**, Botezan, A., Munteanu, R.A., Karaissas, P., Psomopoulos, C., Testing wind variable speed driving systems for conducted interferences SPEEDAM 2012 - 21st International Symposium on Power Electronics, Electrical Drives, Automation and Motion 6264482, pp. 565-570, Scopus
11. Elena STEFAN, Horia BALAN, **Mircea BUZDUGAN**, Petros KARAISSAS, Study of the DC Voltage Circuit Breakers Commutation with Emtworks Software Simulations - Annals of the University of Craiova, Electrical Engineering series, No. 34, 2010; ISSN 1842-4805 <http://elth.ucv.ro/fisiere/anale/2010/47.pdf>, Index Copernicus
12. Balan H., Botezan A., **Buzdugan M.**, Stefan Elena, Pîrv G., Karaissas P., "The off-line diagnose of automatic circuit breakers by the time domain and frequency vibration analysis", Proceedings ICATE 2010, Craiova, Romania, October 8-9, secțiunea R2-Electrical Equipments and Technologies, paper ID 2.7., on CD, Articles, Index Copernicus
13. Balan H., **Buzdugan M.**, Munteanu A. R., Botezan A., Cozorici I., Avram V., "Insulation Resistance Testing of the Medium Voltage Switches" Proceedings ICATE 2010, Craiova, Romania, October 8-9, secțiunea R2-Electrical Equipments and Technologies, paper ID 2.10., on CD, Index Copernicus
14. Balan H., Botezan A., **Buzdugan M.**, Karaissas P., Duta M., Iacob A., Real time simulation of Active Filters with EMEGASIM 4508 Platform-Case Study", Proceedings CNAE 2010, Craiova, Romania, October 6-8, 2010, secțiunea EA-FA-Energetica sistemelor de acționare electrică și filtre active, lucrarea ID 27, on CD, Index Copernicus
15. **M. Buzdugan**, H. Bălan, EMI Filtering of Air Handling Units, Bulletin of the Transilvania University of Brașov CIBv 2015 • Vol. 8 (57) Special Issue No. 1 – 2015, EBSCO
16. **M. I. Buzdugan**, H. Bălan, On Electrical Energy Efficiency in Buildings - Bulletin of the Transilvania University of Brasov • Vol. 7 (56) No.1 - 2014 Series I -

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17. Balan, H., Vadan, I., **Buzdugan, M.**, Botezan, A., Karaissas, P., Fault identification of rotating electric machines using comparative analysis methods Materials Science Forum International Aegean Conference on Electrical Machines and Power Electronics, ACEMP 2011 and Electromotion 2011 Joint Conference 6490610, pp. 276-281, Scopus
  18. Horia Balan, Traian Varodi, **Mircea I. Buzdugan**, Monitoring power breakers using vibro acoustic techniques, Advances in Science, Technology and Engineering Systems Journal Vol. 2, No. 3, 1771-1776 (2017), ASTESJ ISSN: 2415-6698, www.astesj.com, Researcher ID Thomson Reuters, Open Access
  19. **Mircea Ion Buzdugan**, Horia Bălan, Emil E. Simion, Tudor Ion Buzdugan, **Electromagnetic interference at the mains ports of an equipment**, ICREPQ08, Santander, ..., 2008 - icrepq.com Renewable Energy and Power Quality Journal (RE&PQJ) ISSN 2172 -038 X, , May 2008
  20. **M. I. Buzdugan**, H. Bălan, Power Quality versus Electromagnetic Compatibility in Adjustable Speed Drives - International Conference on Renewable Energies and Power Quality (ICREPQ'13) Bilbao (Spain), 20 th to 22 th March, 2013 Renewable Energy and Power Quality Journal (RE&PQJ) ISSN 2172 -038 X, No.11, March 2013,
  21. Elena STEFAN, Horia BALAN, **Mircea BUZDUGAN**, Petros KARAISAS, Study of the DC Voltage Circuit Breakers Commutation with Emtworks Software Simulations - Annals of the University of Craiova, Electrical Engineering series, No. 34, 2010; ISSN 1842-4805 <http://elth.ucv.ro/fisiere/anale/2010/47.pdf>,
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  29. Bălan Horia, **Buzdugan Mircea**, Pop Adrian Augustin, Chiorean Cristina, **Reducing Short Circuit Current in Continuous Voltage Networks through Hybrid Commutation**, Acta Electrotehnica, Proceedings of the 5th International Conference of Modern Power Systems, 28-31 May, 2013, Cluj-Napoca
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  31. **Mircea-Ion BUZDUGAN**, Emil SIMION, **A Power Quality Problem on Low Voltage Distribution Lines** - Analele Universitatii din Oradea, Fascicula de Energetica Vol..15, 2009
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Doru Andritoi, Valeriu David, Radu Ciorap, Marius Branzila, RECORDING AND PROCESSING ELECTROCARDIOGRAPHY SIGNALS DURING MAGNETOTHERAPY PROCEDURES, Environmental Engineering and Management Journal, June 2013, Vol.12, No. 6, 1231-1238

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22. **Buzdugan, M., I.**, *Compatibilitatea electromagnetică, un răspuns la agresiunea mediului modern*, Cluj-Napoca, Conferința Știința Modernă și Energia, SME, 2005, pp. 301-3310, ISBN 973-656-897-0
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25. **Buzdugan, M., I.**, *Compatibilitate electromagnetică în instalațiile electrice de joasă tensiune*, Conferința națională de instalații, Sinaia 2005, pp. 75-82, ISBN 973-685-963-0
26. **Buzdugan, M., I.**, *Casa comunicantă și confortul ambiental*, Cluj-Napoca, Conferința Știința Modernă și Energia, SME, 2006, pp. 375-383, ISBN 978-973-751-215-4
27. **Buzdugan, M., I.**, *Compatibilitatea electromagnetică și confortul ambiental*, Cluj-Napoca, Conferința Știința Modernă și Energia, SME, 2006, pp. 384-391, ISBN 978-973-751-215-4
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29. **Buzdugan, M. I.**, Domșa Antoniu *Asupra ecranării electromagnetice în instalațiile moderne*, Conferința națională de instalații, Sinaia 2006, pp. 92-100, ISBN 978-973-755-096-4
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## E – Participare la proiecte/contracte de cercetare

### **Director/Responsabil**

1. Proceduri de testare a sistemelor de protecție echipate cu relee digitale, la punerea în funcțiune a stațiilor și posturilor din sistemul energetic, Cecuri de inovare, cod PN-III-P2-2.1-CI-2017-0799, NR. 147CI/2017
2. Sistem distribuit de monitorizare a debitelor de apa uzata in sistemele de canalizare pentru optimizarea funcționării acestora, Competiția națională de proiecte de cercetare aplicativă organizată de Academia de Științe Tehnice din Romania ASTR-CA1 2016
3. Dezvoltare și omologare terminal de teletransmisie TELEROM 3V1 (Planul National de Dezvoltare) (responsabil partener), Responsabil proiect IPA TCT București, Partener IEIA Cluj-Napoca, 1979-1980, responsabil partener
4. Concepție și proiectare constructivă și tehnologică terminal de teletransmisii de date, Telerom 3V1-1, (Planul tehnic al Centralei Industriale de Echipamente de Automatizare), Proiect de dezvoltare IEIA Cluj-Napoca, 1982-1983, responsabil

5. Concepție și proiectare constructivă și tehnologică: Programator filtru saci, PFS (Planul tehnic al Centralei Industriale de Echipamente de Automatizare), Responsabil proiect IPA TCT București, filiala Cluj-Napoca, partener IEIA Cluj-Napoca, 1986-1987, responsabil partener
6. Transfer tehnologic/fabricație traductor balanța torsiune FE 10, Responsabil proiect IEIA Cluj-Napoca, Partener IEA București, 1985, responsabil
7. Transfer tehnologic/fabricație sursa de alimentare traductor balanța torsiune FE 100, Responsabil proiect IEIA Cluj-Napoca, Partener IEA București, 1984, responsabil
8. Transfer tehnologic/fabricație traductor de proximitate cu ieșirea pe releu TPR, Responsabil proiect IEIA Cluj-Napoca, Partener IEA București, 1985, responsabil
9. Transfer tehnologic/fabricație traductor de proximitate cu ieșirea pe tiristor TPT, Responsabil proiect IEIA Cluj-Napoca, Partener IEA București, 1985, responsabil
10. Transfer tehnologic/fabricație reglatoare pentru procese continue, seria ELC 1131-1134, Responsabil proiect IEIA Cluj-Napoca, Partener IEA București, 1986-1987, responsabil
11. Transfer tehnologic/fabricație reglatoare pentru procese discontinue, seria ELC 1321-1324, Responsabil proiect IEIA Cluj-Napoca, Partener IEA București, 1986-1987, responsabil
12. Concepție și proiectare constructivă Cuplor Ex (Planul tehnic al Centralei Industriale de Echipamente de Automatizare), Responsabil proiect IPA TCT București, Partener IEIA Cluj-Napoca, 1981-1986, responsabil partener
13. Concepție și proiectare constructivă bariera de siguranță intrinsecă, seria BS (Planul tehnic al Centralei Industriale de Echipamente de Automatizare), Responsabil proiect IPA TCT București, Partener IEIA Cluj-Napoca, 1987, responsabil partener

## Membru

1. Contract 53/2013 PN-II-PT-PCCA: Sistem de management al energiei obținute din surse regenerabile, pentru mici comunități izolate, Director: Prof. dr. ing. Dorin Petreus, UTC-N
2. Contract CEEEX, nr. 77/2006, *Sistem de analiză și calcul a semnalelor din rețele electrice poluate și comandă a filtrelor active pentru compensarea armonicilor*, Director partener: Prof. dr. ing. Horia BĂLAN
3. Parteneriate în domeniile prioritare, contractul nr. 21-059/2007: *Creșterea siguranței în exploatarea echipamentelor electrotehnice prin optimizarea construcțiilor, în vederea îmbunătățirii rezistenței la șocuri și vibrații*, Director UTC-N: Prof. dr. ing. Horia BĂLAN
4. *Tehnici și strategii de comandă, control și proiectare a filtrelor active utilizate în rețelele electrice poluate*, Contract CNCSIS 1584/ 2007, nr. tema A2, Director UTC-N: Prof. dr. ing. Horia BĂLAN
5. *Centru de cercetare pentru testarea, diagnosticarea și monitorizarea echipamentelor electrice din sistemele electroenergetice cu eficiență energetică ridicată*, Contract 87/2007 Capacități PN II, Director UTC-N: Prof. dr. ing. Horia BĂLAN
6. Contract PN2 Idei ID\_1024, nr. Contract 344/2007, *Model Matematic pentru studiul influenței poluării electromagnetice în c.a. a conductelor metalice subterane de gaz, cu și fără protecție catodică, aflate în vecinătatea unei stații de transformare*, Director de grant: Prof. dr. ing. Emil SIMION
7. Contract CEEEX, nr. 264/12.09.2006, *Cercetări teoretice și experimentale privind comportarea materialelor electroizolante în scopul fundamentării studiilor de diagnoză și predicție inteligente*, Director partener UTC-N: Prof. dr. ing. Emil SIMION

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8. Grant CNCSIS de tip A, *Influența câmpurilor electromagnetice asupra stabilității în funcționare și a performanțelor instalațiilor de ardere*, Cod CNCSIS 1279/2006, Director de grant: Prof. dr. ing. Emil SIMION
  9. Grant CNCSIS de tip A, *Software pentru modelarea și predicția interferenței electromagnetice pe linii de transmisie*, Contract 33385/2004, Cod CNCSIS 869, Director de grant: Prof. dr. ing. Emil SIMION
  10. Grant CNCSIS de tip A, *Analiza și predicția fenomenelor de interferență electromagnetică create de sistemele de tracțiune electrică feroviară*, Cod CNCSIS 483/2001, Director de grant: Prof. dr. ing. Emil SIMION

### **Contracte de cercetare/consultanță**

#### **Director/Responsabil**

1. *Gestionarea serviciului de iluminat public din municipiul Bistrița și cele șase localități componente - Studiu de oportunitate* Contract nr. 144/2007, între UTC-N și Primăria municipiului Bistrița,
2. Contract de consultanță în servicii de proiectare, între UTC-N și Centrul Medical Unirea București – Spitalul Regina Maria Cluj-Napoca, nr. 21345/2017

Data  
10.01.2018

Semnătura