

LISTA DE LUCRĂRI
a candidatului: **TULBURE ADRIAN-ALEXANDRU**

Teza de doctorat

Netzgespeiste Asynchronmaschine mit elektronischer Käfigskommütierung zur aktiven Schwingungsdämpfung „*Masina asincrona alimentata de la retea cu comutatia electronica a coliviilor pentru atenuarea activa a oscilatiilor*“.

Teza de doctorat a fost elaborata in Germania in perioada 1998-2003 sub coordonarea d-lui prof.H.-P. Beck de la UT Clausthal, respectiv prof. U.Beckert de la UT Freiberg si sustinuta in 23.ian.2013 la *Universitatea Tehnica din Clausthal-Germania*.

Cele mai relevante lucrări științifice, publicate în țară și în străinătate, după susținerea doctoratului sunt:

Cărți publicate relevante:

- A1. **Tulbure, A.**; Netzgespeiste Asynchronmaschine mit elektronischer Käfigskommütierung zur aktiven Schwingungsdämpfung (*Masina asincrona alimentata la retea cu comutatia electronica pentru atenuarea oscilatiilor*). Monografie in Editura Papierflieger / Germania. Clausthal - 2003. ISBN 3-89720-648-X.
- A2. **Tulbure, A.** Beck H.-P., *Messtechnik zur Leistungsmechatronik (Masurari in mecatronica)*. Institutul de Electrotehnica din Clausthal 2004, Centrul de multiplicare al UT Clausthal.Tu-Be-04.
- A3. **Tulbure, A.** *Dispozitive intrare-iesire interne calculatorului*. Editura Universitas Petrosani 2007. ISBN 978-973-741-115-0.
- A4. Joldes, R.; **Tulbure,A**; si colab. *Limbajul de asamblare prin exemple*. Indrumator de laborator. Seria Didactica Alba Iulia 2008.
- A5. **Tulbure A.**, Marc.Ghe., *Surse neconventionale de energie*. Editura Aeternitas, Alba Iulia 2015.ISBN 978-606-613-115-5
- A6. **Tulbure A.**, Cioflica D., *Electro-Probleme. Teorie si aplicatii*. Editura Aeternitas, Alba Iulia 2015, ISBN 978-606-613-113-1.
- A7. **Tulbure A.**, Pocan I. *Compatibilitate Electromagnetica, Suport de curs*. Seria didactica Alba Iulia, 2014.

Lucrări publicate indexate ISI Thompson sau baze de date internaționale BDI

2006

- B1. **Tulbure, A.**; *Type Test Procedure for Electronic Ground Power Units*. IEEE–TTTC International Conference AQTR-2006, Sect.”*Measurement & Quality*”, Tome II, Cluj-Napoca, 25-28 Mai 2006, ISBN 1-4244-0360-X, pag.176-179.

2008

- B2. Risteiu, M., Ileana, I., **Tulbure, A.**, Croitoru, B.; *Evaluation methods for smart sensors performances integrated in TCP infrastructure*. Chapter 55 in DAAAM International Scientific Book 2008, pp. 641-656, B. Katalinic (Ed.), Published by DAAAM International, ISBN 978-3-901509-66-7, ISSN 1726-9687, Vienna, Austria
- B3. **Tulbure, A.**; Abrudean M; *Experimental Aspects at Switching with Power MosFet's*. IEEE–TTTC International Conference AQTR-2008, Sect.”*T-S2 Testing*”, Tome I, Cluj-Napoca, 22-25 Mai 2008, ISBN 978-1-4244-2576-1, pag. 132-136.
- B4. Risteiu M., Ileana I., **Tulbure, A.**, Marc G., Croitoru B., *Practical Approach of using Embedded Controllers for Virtual Instrument over TCP/IP and 802.11 B/G Protocols*.

Annals of DAAAM for 2008, Sect. "Intelligent Manufacturing & Automation", Tarnava, 22-25 Octombrie 2008, ISSN 1726-9679, pag.1179-1180.

- B5. **Tulbure, A.**; H.-P. Beck, Risteiu M., *Variable Motor Operating Point by Integration of the Power Electronic Devices into Rotor*. EPE-PEMC International Conference 2008, Sect. "Application and Design of Power Electronics Systems", Poznan, 1-3 Septembrie 2008, ISBN 978-1-4244-1742-1, pag. 1258-1263.
- B6. Ileana, I., Risteiu, M., **Tulbure, A.**, Rusu, M.; *Smart data acquisition system for utilities metering*. The 4th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies" SPIE 2008, 28-31 aug.2008 Constanta. IV [7297-83], ISSN 0277-786X, ISBN 9780819475596

2009

- B7. E. Ceuca, **A. Tulbure** and I. Ileană, *Experimental Research in Simulation of the Automotive Alternators and Solutions for Extend Voltage Level* Proceedings of the 2010 IEEE 16th International Symposium for Design and Technology of Electronics Packaging (SIITME), 17-20 Sep 2009, Gyula, Hungary, pag. 215-220, ISBN: 978-1-4244-50330309,
- B8. Ceuca E.; **Tulbure A.**, Cabulea L., Ileana I. *Educational Platform GUI for Modeling and Simulation of DC-DC Resonant Converters*, Proceedings of the MMACTEE09 - 11th International Conference of Mathematical Methods and Computational Technique in Electrical Engineering, Athens, Greece, September 28-30, 2009 pp.753-757, ISBN 978-960-474-124-3; ISSN 1790-2769
- B9. Rotar, C, Ileana I, Muntean M, Kadar M, **Tulbure A.** *Evolutionary optimization in dynamic environment*. Proceedings of DAAAM09 - 20th international DAAAM Symposium „Intelligent Manufacturing & Automation”, Vienna, Austria, November 25-28, 2009 pp.1251-1252, ISSN 1726-9679

2010

- B10. **A. Tulbure**, D. Turschner, M. Abrudean, E. Ceuca, R. Ormenisan *Experimental Comparison of Switching with IGBT and MOSFET*, 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - THETA 17 - May 28-30 2010, Cluj-Napoca, Romania ISBN 978-1-4244-6722-8, pag.190-194.
- B11. B. Croitoru, L. Boca, **A. Tulbure** *The Management of Wireless RealTime Data Acquisition Processes Using Virtual Instruments*, 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - THETA 17 - May 28-30 2010, Cluj-Napoca, Romania, ISBN 978-1-4244-6723-5, pag. 287-293
- B12. I. E. Ceuca, **A. Tulbure**, O. Domsa and C. Covaciu *Study from implementing algorithms for face detection and recognition for embedded systems*, 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR2010) - THETA 17 - TOME III, Cluj Napoca România, 28-30 May 2010; ISBN 978-1-4244-6724-2, pag. 181-185;
- B13. E. Ceuca, S. Lungu, **A. Tulbure**, G. Brezeanu, *Experimental Stand for Research the Alternators Directions of Further Development*. Proceedings of the 12th International Conference on Optimization of Electrical and Electronic Equipment OPTIM Brasov, Romania, 19-22 May 2010, BRAȘOV, ISBN:978-973-131-080-0 ISSN: 1842-0133.
- B14. Ceuca E.; **Tulbure A.**, Cabulea L., Dalchin T. *Educational Platform GUI for Modeling and Simulation of DC-DC Half Wave Resonant Converters*, Proceedings of the 14th WSEAS International Conference on Circuits, Corfu island, Greece, July 22-24, 2010, pp.116-121, ISBN 978-960-474-198-4; ISSN 1792-4227
- B15. **Emilian Ceuca**, **Adrian Tulbure**, **Ioan Ileana**, **Gh Brezeanu**, **Cosmin Covaciu**: "Wind energy evaluation and solution for home applications", ATOM –N 2010 – The 5-th International Conference, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies Constanta, Romania, 26-29 August 2010, Proc. of SPIE Vol. 7821, ISBN 978-0-8194-7670-8, pag. 78210P1-P7

B16. **Muntean, M.**, Vălean, H., Tulbure, A., Ileană, I., Kadar, M., „*Data mining algorithms for wireless sensor network's data*”, *Proceedings of SPIE. Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies*, ISBN 978-0-8194-7670-8, 26-29 August 2010, Constanta, Romania, Vol. 7821 (ISI Web of Knowledge, SPIE Digital Library). Pag 78212G-1 - 78212G-8.

B17. I.E.Ceuca **A. Tulbure** and M. Risteiu *The Evaluation of Regenerative Braking Energy*. Proceedings of the 2010 IEEE 16th International Symposium for Design and Technology of Electronics Packaging (SIITME), 23-26 Sep 2010, Pitesti, Romania, pag. 65-68, ISBN: 978-1-4244-8123-1

2011

B18. **A.Tulbure**, E.Ceuca and I.Ileana ”*Electrical Behaviour of a Power Unit at the Limits of the Nominal Range*” Proceedings of the 2011 IEEE 17th International Symposium for Design and Technology of Electronics Packaging (SIITME), 20-23 Oct 2011, Timisoara, Romania, ISBN 978-1-4577-1276-0, pag 125-128

B19. Emilian CEUCA, **Adrian TULBURE**, Simona PLESA, ”*Integrated monitoring system for tracking green energy production*”, Proceedings of the 2011 IEEE 17th International Symposium for Design and Technology of Electronics Packaging (SIITME2011), 20-23 Oct 2011, Timisoara, Romania, ISBN 978-1-4577-1276-0, pag 145-148.

2012

B20. Ceuca, E. ; **Tulbure, A.** ; Plesa, S. *The battery management in green energy production* Proceedings of the 35-th International Spring Seminar on Electronics Technology (ISSE2012), 09-13.Mai 2012, Bad Aussee, Austria, ISSN :2161-2528, E-ISBN :978-1-4673-2239-3, Print ISBN: 978-1-4673-2241-6, INSPEC Accession Number: 12945511 DOI: 10.1109/ISSE.2012.6273158 , Page(s): 350 – 354

B21. **Tulbure, A.**, Albu, M., Ceuca E. *Standard and Customised Measurements for Wind Potential Assessment*, Proceedings of 2012 IEEE International Instrumentation and Measurement Technology Conference, 13-16.may.2012 Graz-Austria, ISSN 1091-5281, ISBN 978-1-4577-1773-4, pag.865-869,

B22. Emilian CEUCA, **Adrian Tulbure**, „*Practical Behavior of DC-DC converters in Home Applications - induction hob*” Proceedings of the 2012 IEEE 18th International Symposium for Design and Technology in Electronic Packaging (SIITME2012), 25-28 Oct 2012, Alba Iulia, Romania, ISBN: 978-1-4673-4757-0, pag 95- 98

2013

B23. **A. Tulbure**, E. Ceuca, C. Farcas and I. Farkas *The Power Quality Influence on the Reliability of PFC Capacitors*. Proceedings of the 36th International Spring Seminar on Electronics Technology International Symposium for Design and Technology in Electronic Packaging (ISSE 2013), 08-12 mai 2013, Alba Iulia, Romania, ISSN 2161-2528, PAG 295-298

B24. E. Ceuca, **A. Tulbure**, A. Taut, O. Pop, I. Farkas *Embedded System for Remote Monitoring of OBD Bus* Proceedings of the 36th International Spring Seminar on Electronics Technology International Symposium for Design and Technology in Electronic Packaging (ISSE 2013), 08-12 mai 2013, Alba Iulia, Romania, ISSN 2161-2528 ,PAG 305-308

B25. **I.Fărcaș C.**, Palaghiță N., Ciocan I., Cozma A., Tulbure A, *A New Forward Based Converter with Power Factor Correction*, 2013 IEEE 19th International Symposium for Design and Technology of Electronics Packaging (SIITME 2013), Galați, Romania, October 24th–27th, pag. 89- 94, ISBN: 978-1-4799-1555-2; IEEE Catalog Number: CFP1307I-AR

2014

B26. **A. Tulbure**, E. Ceuca, D.Turschner *Arduino based power semiconductors tester for urban traction systems* Proceedings of the 37th International Spring Seminar on Electronics Technology (ISSE 2014), 07-11 mai 2014, Dresden, Germany, page(s):206 - 210 ISBN 978

– 3–934142–49–7, INSPEC Accession Number:14562478;
DOI:10.1109/ISSE.2014.6887594

- B27. E. Ceuca, **A. Tulbure**, *Modeling and Practical Strategy for PWM Control in Heating Applications*” Proceedings of the 37th International Spring Seminar on Electronics Technology (ISSE 2014), 07-11 mai 2014, Dresden, Germany, Page(s):321 - 326 ISBN 978–3–934142–49–7 INSPEC Accession Number:14562489, DOI:10.1109/ISSE.2014.6887616
- B28. B.Croitoru, **A.Tulbure**, M. Abrudean *Microcontroller-based multiple-platform PWM signal generation procedures for industrial use*. 2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR2014) - THETA 19 - *TOME III*, Cluj Napoca România, 22-24 May 2014; Page(s):1 - 6 , Print ISBN: 978-1-4799-3731-8; INSPEC Accession Number:14452343, DOI:10.1109/AQTR.2014.6857891
- B29. B. Croitoru, **A. Tulbure**, M. Abrudean, M. Secara: *Creating a Transducer Electronic Datasheet using I2C Serial EEPROM Memory and PIC32-Based Microcontroller Development Board* Proceedings of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies" ATOM-N 2014 Conference, 21 - 24 august 2014, Constanta, Romania
- B30. **A. Tulbure**, C. Hutanu, F. Borsan *Aperiodic control method on the reflow soldering-machine for electronic board production*, Proceedings of the 2014 IEEE 20th International Symposium for Design and Technology of Electronics Packaging (SIITME 2014), Bucharest, Romania, October 23th–26th, pag. 83-86, INSPEC Accession Number:14788695 DOI: 10.1109 / SIITME.2014.6966999

2015

- B31. Ioana I. Farkas, **Adrian Tulbure**, Cristian Farcas *Advanced Control Procedure for Autonomous Underwater Robots*. Proceedings of 7th international conference on Electronics, Computers and Artificial Intelligence **ECAI 2015**, 25 June-27 June 2015, Bucharest, ROMANIA, Conference Record Number: 35923X, *IEEE Catalog nr.CFP1527U-PRT*, ISBN 978-1-4673-6646-5, ISSN 1843 – 2115, Pag. P95-P100.
- B32. **Adrian Tulbure***, Constantin Hutanu*, Gheorghe Brezeanu** *Small Signal Impedance Analysis of High Efficient Power Devices*. Proceedings of the 38th International Semiconductor Conference (CAS 2015), Sinaia 11-14.10.2015, *IEEE Catalog nr.CFP14CAS-PRT*, ISBN: 978-1-4799-8862-4, ISSN 1545-827X, Pag. 229-232.

2016

- B33. **A Tulbure**, M Ciortea, C Hutanu, V Farcas. *Energy optimisation aspects by injection process technology*, Proceedings of IV International Conference *Modern Technologies in Industrial Engineering ModTech2016*, June 15-18, Iasi, IOP Conf. Series: Materials Science and Engineering 145 (2016) 022038 doi:10.1088/1757-899X/145/2/022038
- B34. M Ciortea, **A Tulbure**, C Hutanu,. *Multiagent for manufacturing systems optimization*, Proceedings of IV International Conference *Modern Technologies in Industrial Engineering ModTech2016*, June 15-18, Iasi, IOP Conf. Series: Materials Science and Engineering 145 (2016) 022038 doi:10.1088/1757-899X/145/2/022038
- B35. Constantin Hutanu, **Adrian Tulbure**, Elisabeta Mihaela Ciortea – *“High accuracy measurement line in microwave range for polymer samples weak doped with BaTiO3”* Proceedings of IV International Conference *Modern Technologies in Industrial Engineering ModTech2016*, June 15-18, Iasi, IOP Conf. Series: Materials Science and Engineering 145 (2016) 022038 doi:10.1088/1757-899X/145/2/022038
- B36. M Muntean, **A Tulbure**, C Rotar *Data Mining Methods for Energy Forecasting of Small Solar Plant*, SPIE Proceedings of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies" ATOM-N 2016, 25 – 28 august 2014, Constanta, Romania Vol.10010, ISBN 978-0-8194-7670-8

- B37. **Adrian TULBURE**, Gheorghe MARC, Ünal KURT „*Electrical and optical evaluation aspects of public lighting systems*” SPIE Proceedings of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies" ATOM-N 2016, 25 – 28 august 2016, Constanta, Romania, Vol.10010, ISBN 978-0-8194-7670-8
- B38. Ionuț Ciocan, Cristian Fărcaș, Alin Grama, **Adrian Tulbure**, *An Improved Method for the Electrical Parameters Identification of a Simplified PSpice Supercapacitor Model*. Proceedings of the 22th International Symposium for Design and Technology of Electronics Packaging (SIITME 2016) Baile Felix, Romania, 20-23 October 2016, pp. 169-173, Electronic ISBN: 978-1-5090-4445-0, Print on Demand(PoD) ISBN: 978-1-5090-4446-7, INSPEC Accession Number: DOI: 10.1109/SIITME.2016.

2017

- B39. **Adrian Tulbure**, Constantin Hutanu and Andreea Tulbure, *Hardware latency investigation for an autonomous miniature vehicle*. 40th International Spring Seminar on Electronics Technology (ISSE 2017), 10-14.May 2017, SOFIA
- B40. Constantin Hutanu and **Adrian Tulbure**, *High quality educational platform for online tutoring researchers and engineers*. 40th International Spring Seminar on Electronics Technology (ISSE 2017), 10-14.May 2017, SOFIA
- B41. **Adrian Tulbure**, Emilian Ceuca, Adrian Ilea , *Electronically Controlled Hexapod Prototype for emergency situations*. 9th international conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE, ECAI 2017, ROMANIA, June 29– July 01, 2017
- B42. Emilian Ceuca, **Adrian Tulbure**, *Home Automations for Increasing the Quality of Life and Integration with the Smart City*. 9th international conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE, ECAI 2017, ROMANIA, June 29– July 01, 2017.
- B43. **Tulbure, Adrian**; Kadar, Manuella, *Power electronics methods to improve energy efficiency in the public transportation system*. *Proceedings of the 23rd ICE/ITMC International Conference on Engineering, Technology, and Innovation*, Madeira 27–29.07.2017 Madeira, Portugal
- B44. Kadar, manuella; **Tulbure, adrian**, *An automated knowledge discovery framework with multi-agent systems–KDMAS*. Proceedings oif the 23rd ICE/ITMC International Conference on Engineering, Technology, Innovation, Madeira 27-29.07.2017, Portugal

Lucrări publicate la manifestari stiintifice recunoscute CNCSIS / international

2004

- C1. Beck, H.-P; **Tulbure, A.**; *Forschung an der TU Clausthal im deutschen und europäischen Kontext*. Simpozion international UNIVESITARIA ROPET 2004, 15-16 octombrie 2004, Vol.2, Edit. Universitas Petrosani, ISBN 973-8260-69-8, pag.7-12.
- C2. **Tulbure, A.**; *Shaft Torque Control System for Induction Machine*. Simpozion international UNIVESITARIA ROPET 2004, 15-16 octombrie 2004, Vol.2, Edit. Universitas Petrosani, ISBN 973-8260-69-8, pag.139-142.

2005

- C3. **Tulbure, A.**, Erdmann. M.; *16-Bit Embedded System to Control the High Power Supply Unit*. Simpozion international SIMPRO 2005, 14-15 octombrie 2005, Vol."Automatica, Informatica si Calculatoare", Edit. Universitas Petrosani, ISBN 973-8260-91-4, pag.53-56.
- C4. **Tulbure, A.**; Preda I. *Generation of Pulse-Width-Modulation Pattern with 16 bit Microcontroller*. Simpozion international SIMPRO 2005, 13-14 octombrie 2006, Vol. "Automatica, Informatica Ind. si Calculatoare", Edit. Universitas Petrosani, ISBN 1842-4449, pag.97-100.
- C5. **Tulbure,A.**, *Technique to Reduce the Shaft Torque Stress at the Induction Machine*. Annals of the University Eftimie Murgu Resita, 2005 Resita, ISSN 1453-7394. pag. 330-333.

2006

- C6. **Tulbure, A.;** *Electronic Control System for Torque Oscillations of Electrical Drives.* Conferinta MicroCAD 2006, Technical University of Miskolc, 16-17 martie 2006, Sect. "Electrotechnics & Electronics", ISBN 963-661-710-4, pag.101-106.
- C7. **Tulbure,A;** Turschner, D. *Vergleich von Regelungsverfahren mit direkter Messung und Beobachtung des Wellenmoments eines Asynchronmaschine.* Annals of the University Petrosani, Vol.XXXV/2006, *Electrical Engineering*, ISSN 1454-8519., pag. 139-148.

2007

- C8. **Tulbure, A.,** Egri A., Joldes R.; *Cages Switching at an Induction Machine using 16-Bit Microcontroller.* Conferinta MicroCAD 2007, Technical University of Miskolc, 22-23 martie 2007, Sect. "Electrotechnics & Electronics", ISBN 978-963-661-751-6, pag.67-72.
- C9. Egri A., **Tulbure A.,** Sarb V., *Control and simulation for robotic arms.* International Scientific Conference MicroCAD 2007, 22-23 martie 2007. Sect. "Production Engineering and Manufacturing Systems", ISBN 978-963-661-753-0, pag. 55-60.
- C10. Risteiu M., Ileana I., **Tulbure, A.,** Hutanu C.; Rotar C.; *Integration of the ZigBee Smart Sensors in TCP/IP Infrastructure for Fast Enabling Remote Data Aquisition.* 16th International Conference Process-Control 2007. University of Technology in Bratislava, 11-14 Juni 2007, ISBN 978-80-227-2677-1, pag.1181-1187.
- C11. **Tulbure A.,** Ileana. I; Risteiu, M. *Comparison of Different Modelling Methods and Some Measurements for Pulse Width Modulation–Signals.* Proceedings of ICTAMI-Conference, 20-22 aug. 2007. Editura Aeternitas Alba-Iulia: ISBN 978-973-1890-01-2, pag. 317-326.
- C12. **Tulbure, A.;** Risteiu, M. *Technical Simulation and Measurements of Cage Switching at the Induction Machine.* Conferinta internationala SINTES13 – Vol II, *Electronics and Instrumentation.* 18-20 oct. 2007, Craiova. ISBN 978-973-742-839-4. pag. 205-210.
- C13. Risteiu M; **Tulbure A;** Moise A; Covaciu C; *New Aproach in Measurement-Based Power Network Modelling By Using Smart Sensors.* Annals of the University of Petrosani, Vol.XXXVI/2007 *Electrical Engineering*, ISSN 1454-8518, pag. 112-119.
- C14. **Tulbure A;** Risteiu M; *Embeded System zur Steuerung leistungselektronischer Module* Annals of the University Petrosani, Vol.XXXVI/2007 *Electrical Engineering*, ISSN 1454-8518, pag. 272-277.
- C15. Risteiu M; **Tulbure A;** *ZigBee Development Setup for Measurement Based Web Modelling and Simulation.* Annals of the University Petrosani, Vol.XXXVI/2007 *Electrical Engineering*, ISSN 1454-8518, pag. 373-380.
- C16. **Tulbure, A.,** Risteiu M., *Electronic System to adjust the behaviour of the mains-operated Induction Machine.* Annals of the University of Craiova. Series: *Automation, Computers, Electronics and Mechatronics*, Vol 4, No.3/2007. ISSN 1841-0626, pag. 149-154
- C17. **Tulbure, A.;** Turschner D; *Schutz- und EMV-Aspekte bei modernen Leistungs-halbleitern. (Aspecte de protectie si compatibilitate electromagnetica la dispozitivele semiconductoare de putere).* Buletinul stiintific Nr.18/2007 al Institutului de Electrotehnica Clausthal / Germania, Editura Papierflieger Clausthal, pag.125-130.

2008

- C18. **Tulbure, A.,** Egri A., Joldes R.; Sarb V.; *Pulse Width Modulations- Signals to Control the CIM-Systems.* Conferinta MicroCAD 2008, Technical University of Miskolc, 20-21 martie 2008, Sect. "Instrumentation and Manufacturing Systems", ISBN 978-963-661-823-0, pag. 143-148.

2010

- C19. **A. Tulbure,** E. Ceuca, I. Ileana, B.Croitoru, *Increasing the Dynamic Performance of the Power Supply Prototype Since the Testing Phase,* Proceedings of the 2010 IEEE 16th

- International Symposium for Design and Technology of Electronics Packaging (SIITME), 23-26 Sep 2010, Pitesti, Romania, pag. 319-322, ISBN: 978-1-4244-8122-4
- C20. Ceuca, IE; **Tulbure, A**; Manavis, C; *Survey Research About Analog Versus Digital Control. Smart Applications & Technologies for Electronic Engineering SATEE 2010*, Alba Iulia, 09-11.09.2010, pag.78-80, Ed. Aeternitas, ISBN 978-973-1890-27-2.
- C21. Tulbure, A; Tarnovan, I; Ceuca, IE; *Energy Consumption Analysis of Common Computer Applications. Smart Applications & Technologies for Electronic Engineering SATEE 2010*, Alba Iulia, 09-11.09.2010, pag.35-37, Ed. Aeternitas, ISBN 978-973-1890-27-2
- C22. Boca, L; Croitoru, B; Abrudean, M; **Tulbure, A**; *Models for Detections of Mission-Critical Situations in Distributed Sensor Networks. Smart Applications & Technologies for Electronic Engineering SATEE 2010*, Alba Iulia, 09-11.09.2010, pag.50-52, Ed. Aeternitas, ISBN 978-973-1890-27-2

2011

- C23. **Tulbure, A.**, Albu, M., **Ceuca E.** *Assessing Wind Energy Potential for Power Grid Injections*. Revista Energetica. Series: *Smart Grid*, No.1-2/2011. Vol.59, ISSN 1453-2360, pag. 12-17.

2012

- C24. Pocan, I; Morar, R; **Tulbure, A**; **Ceuca, E**; **Muntean, O**; Procedure to Reduce Conducted Emissions Generated by Corona Electroseparator. *Smart Applications & Technologies for Electronic Engineering SATEE 2012*, Alba Iulia, 26-27.10.2012, pag. 33-35, Editura Aeternitas, ISBN 978-606-613-051-6

2013

- C25. Pocan Ioan, **Tulbure Adrian**, Muntean Calin, Procedure to reduce the conducted emissions generated by an built-in Module. Revista *Acta electrotehnica* Vol.54, Number 5, 2013 ISSN 1841-3323, pag.374-377

2014

- C26. **A.Tulbure**, N. Todoran, I. Buciuman *Electrical energy audit in urban transport. Case Study for trolleybus system*. Revista *Railwaypro. Science and Technology*. Vol.4 februarie 2014 pag.15-21.

2015

- C27. **Adrian TULBURE**, Mihaela CIORTEA si Constantin HUTANU *Aspecte energetice la procesul de siliconare in industria auto*. Conferinta Nationala Multidisciplinara "Profesorul Ion D. Lazarescu, Fondatorul Scolii Romanesti de Teoria Aschierii" Editia III-2015, Editura GRINTA, ISBN 978-973-126-712-8, Pag. 257-263

2016

- C28. **A.Tulbure**, D.Turschner, D.Cioflica and T.Borsan *Experimental Aspects by Power Supply Testing*. Proceedings of *Smart Applications & Technologies for Electronics Engineering SATEE2016*, Alba Iulia October 13th-16th 2016, Ed. Aeternitas, ISBN 978-606-613-128-5, pag. 95-98.

Proiecte CDI pe baza de contract sau grant

- D1. *Asynchronmaschine mit elektronischer Kennlinienverstellung* (Masina asincrona cu caracteristica ajustabila electronic), Proiect finantat de Fundatia Konrad Adenauer Bonn/Germania, 1998-2003, **Tulbure, A**, responsabil proiect
- D2. *Entwicklung der Leistungselektronik und EMV-Prufanweisungen bei 28V GPU* (Dezvoltarea electronicii de putere si procedura de testare EMC la unitatea de alimentare 28V/2000A dc) Contract nr. RWE22/2003 Germany. **Tulbure, A**, membru in echipa de cercetare.
- D3. *Entwicklung der MOSFET Treiberkarte mit USD-Überwachung* (Dezvoltarea unui modul electronic cu MOSFET cu supravegherea tensiunii drena-sursa Uds) Contract nr. RWE PCC003/2004 Germany. **Tulbure, A**, membru in echipa de cercetare.

- D4. *Teillastuntersuchungen bei Intelligent PowerModul Typ-PS21869 der 5.Generation“ (Analiza la sarcini parțiale pentru modulul inteligent de putere Typ PS21869)* Proiect nr.28/2004 cu firma Mitsubishi Electric / Divizia Power Semiconductors Rattigen/Germania, **Tulbure, A**, membru în echipa de cercetare.
- D5. *Contributii la cresterea sigurantei si randamentului actionarilor electrice I.* Grant–nr.AT32/2004. Contract de cercetare Nr.33348/29.06.04- încheiat cu CNCSIS Bucuresti. **Tulbure, A**, director grant.
- D6. *Contributii la cresterea sigurantei si randamentului actionarilor electrice II.* Grant–nr.AT32 continuare 2005. Act aditional nr.34657/24.06.05 - încheiat cu CNCSIS Bucuresti. **Tulbure, A**, director grant.
- D7. *Analiza comparativa a performantelor energetice ale compresoarelor elicoidale din cadrul CNH Petrosani.* Contract de cercetare Nr.121 ASL/2006-încheiat cu Compania Nationala a Huilei Petrosani. **Tulbure, A**, responsabil contract. Valoare 40.400 lei.
- D8. *Elaborarea si analiza consumurilor energetice pentru statia compresoare si centrala termica din cadrul Unilever Romania SA.* Contract de cercetare Nr.33/2007 încheiat cu SC Unilever SA.Ploiesti; **Tulbure, A**, membru în echipa de cercetare.
- D9. *Monitorizarea starii de vibratie a utilajelor de excavatie apartinand SC CE Turceni SA.* Subcontract nr. 343/2007 încheiat cu Univ. Petrosani si SC Complexul Energetic Turceni SA. **Tulbure, A**, membru în echipa de cercetare
- D10. *Number of imaging technology for embedded applications.* Contract nr.243/4.10.2007 încheiat cu ISEE Media Ontario, CANADA. **Tulbure, A**, membru în echipa de cercetare.
- D11. *Masurari experimentale si analiza tehnica pentru echipamentul instalatie de taiat si slefuit in mediu umed tip REMA NTS500 si alimentarea din amonte.* Contract nr.531/2008 încheiat cu compania Bosch-Rexroth Srl, Blaj. **Tulbure, A**, responsabil contract,
- D12. *Consultanta si asistenta tehnica pentru modernizarea, extinderea si gestionarea sistemului de iluminat public in Mun. Alba Iulia,* Contract nr. 25533/01.09.2009 încheiat cu Primaria Municipiului ALBA IULIA, **Tulbure, A**, responsabil contract, Val.12.000 RON
- D13. *Experimental research for estimating the wind energetic potential in Alba County (location indicated by beneficiary).* Contract nr.285/04.09.2009 încheiat cu compania IWC Germania **Tulbure, A**, responsabil contract, Val. 21.500 EURO
- D14. *Masurari experimentale, bilantare si audit energetic complex pentru consumatorii importanti din cadrul SC SIEMENS SIBIU SRL locatia Sibiu”.* Contract nr. 01/04.01.2010, încheiat cu agentul economic *SIEMENS Industrial Manufacturing Engineering and Applications SIMEA Srl*, **Tulbure, A**, responsabil contract, valoare 14.137,20 lei
- D15. *Experimental study concerning the wind potential estimation using the telecommunication tower in Alba Region,* Act aditional nr. 1/12.04.2010 la Contract nr.285/04.09.2009, **Tulbure, A**, membru în echipa de cercetare. (val.15.800 euro).
- D16. *Servicii tehnice de întocmire a bilanțului energetic complex (electric, termic și mecanic) pentru instalațiile aferente ale SC CAA SA. (Stația de epurare).* Contract nr. 112/31.10.2011, încheiat cu , S.C. *Compania de Apa Arad SA* **Tulbure, A**, responsabil contract, valoare 24.335 RON.
- D17. *Masurari experimentale, bilantare si audit energetic complex pentru consumatorii din Modulul 2 la SC CONTINENTAL AUTOMOTIVE SRL locatia Sibiu.* Contract nr. L_308/15.10.2013 încheiat cu SC Continental SRL SIBIU **Tulbure, A**, responsabil contract, valoare 14.800,00 lei
- D18. *Achizitionare de servicii de întocmire a bilanțului energetic complex (electric, termic și mecanic) pentru instalațiile aferente ale SC CAA SA (Uzina Apă 1, Uzina Apă 2, Stația de epurare si Sectia Mures).* Contract nr. 169/12.12.2013 încheiat cu S.C. *Compania de Apa Arad SA* **Tulbure, A**, responsabil contract, valoare 24.025 RON.
- D19. *Masurari electrice, electronice, fludice si elaborarea auditului energetic real pentru instalatiile HVAC din locatiile indicate de beneficiar (module productie 1-4, cantina si*

unitate R&D) la SC Continental Automotive Systems SRL din Sibiu. **Contract nr. C_364/04.08.2014** incheiat cu SC Continental SRL SIBIU **Tulbure, A**, responsabil contract, valoare 16.058,00 RON.

D20. *Achizitionare de servicii de întocmire a bilanțului energetic complex (electric, termic și mecanic) pentru instalațiile aferente ale SC CAA SA (Uzinele Arad, Uzina Ineu).* Contract nr. 716/30.10.2014 (CAA 177/2014) incheiat cu S.C. *Compania de Apa Arad SA Tulbure, A*, responsabil contract, valoare 23.095 RON.

D21. SC CONTINENTAL Automotive Systems locatia Sibiu. Contract nr. C_962 / 09.10.2015 „*Masurari electrice, electronice, fluidice si elaborarea auditului energetic real complex pentru consumatorii relevanti conform configuratiei din anul 2015*” **Tulbure, A**, responsabil contract, Valoare 44.440 lei

D22. SC SIEMENS Industrial Manufacturing Engineering and Applications Sibiu SRL. Contract nr. 928/21.10.2015 „*Masurari electrice, electronice, fluidice si elaborarea auditului energetic complex pentru punctele de lucru din Sibiu si Buzias ale companiei*” **Tulbure, A**, responsabil contract, Valoare 33.800 lei.

D23. *SC Compania de Apa ARAD SA „Servicii de intocmire a bilantului energetic complex pentru instalatiile aferente ale CAA SA pentru anul 2015”* contract nr. 968 / 11.11.2015 (resp. 149/18.11.2015) incheiat cu S.C. *Compania de Apa Arad SA Tulbure, A*, responsabil contract, valoare 22.700 RON.

Proiecte si granturi educationale (www.hightechalba.ro)

E1. *Creșterea performanțelor absolvenților HIGHTECH (electronica-informatica) în viața activă, prin programe de pregătire practică la agenții economici.* Beneficiar: Universitatea „1 Decembrie 1918” Alba Iulia cu partenerii: BOSCH Rexroth Blaj, Continental Automotive Sibiu si Siemens SIMEA Sibiu. Contract nr. POSDRU/22/2.1/G/24926. Perioada implementare 2009-11. **Tulbure Adrian** - Director grant.

E2. *Stagiile de pregătire practică la agenții economici – o poartă de acces pe piața muncii.* Beneficiar: Universitatea „1 Decembrie 1918”Alba Iulia, Contract nr. POSDRU/109/2.1/G/81578. Perioada implementare 2011-13. **Tulbure A.**- membru in echipa

E3. *Oameni inteligenți pentru orașe inteligente!-Adaptarea programelor de studiu în domeniile electronicii aplicate, informaticii și ingineriei mediului la cerințele secolului 21.* Beneficiar: Universitatea „1 Decembrie 1918” Alba Iulia. Contract nr. POSDRU/ 109/ 2.1/ G/ 81578. Perioada implementare 2014-15. **Tulbure A.**- membru in echipa

E4. *Mecanisme și instrumente de corelare a ofertei educaționale cu cerințele pieței muncii în cadrul universității “1 Decembrie 1918” din Alba Iulia (PRO-INSERT).* Beneficiar: Universitatea „1 Decembrie 1918” din Alba Iulia. Contract CNFIS-FDI-2017-0592. **Tulbure A.**- membru in echipa

Alte lucrari:

Normative, proceduri, metodologii, reglementari si planuri tehnice noi sau perfectionate.

F1. Engelhardt H., **Tulbure, A**, ; *Test Instruction QW 91.9.179.4897 for GPU.* Procedure by RWE Solutions AG Germany. Osterode am Harz. Revision Edited 2003.

Alba Iulia, 30.06.2017

Prof. univ. dr. ing. Tulbure Adrian