

**LISTA PUBLICAȚII**  
având autor sau co-autor: **Csuzi István**

**Invenții / Brevete / Inovații**

I1. **István CSUZI**: Comanda turației la ecluza celulară după semnalul de greutate obținut de la dozatorul gravimetric folosit pentru alimentarea cu făină a CR 3000t/zi, Certificat de Inovator nr.47/29.08.1988, București

**Teze de doctorat:**

T1. **István CSUZI**: *Contribuții la evaluarea și optimizarea performanțelor energetice și de disponibilitate ale sistemului de tracțiune electrică urbană*, Teza de doctorat - coordinator prof.dr.ing. Ioan FELEA, Universitatea Oradea, 2011

**Articole/studii de specialitate cotate I.S.I.**

- S1 Ioan FELEA, **István CSUZI**, Eva BARLA, *Modelling and Assessment the Energy Performance of an Urban Transport System with Electric Drives*, Revue Traffic & Transportation "PROMET", ISSN 0353-5320 UDK 656, Vol.25/2013, pag. 495 – 506, Zagreb – Croatia
- S2 LINGVAY József, GROZA Claudia, LINGVAY Carmen, **CSUZI István**, *A közműhálózatoknál használt polietilén mikrobiológiai károsodásai - Study of Microbiological Degradations of the Polymeric Layer in Public Utilities System*, Korroziós figyelő, 49, 3, 2009 pp. 31-37.

**Articole/studii apărute în reviste indexate în baze de date internaționale (BDI)**

- D1. **István CSUZI**, Miltiade CÂRLAN, Marius COSTEA: *The evaluation of the durability of a batch of electrical engine starters based on a Weibull model*, <http://www.energy-cie.ro>, Journal of Sustainable Energy, ISSN 2067-5534, Oradea, 2014
- D2. **István CSUZI**: *Vulnerabilitatea relativă a sistemelor de transport public urban cu tracțiune electrică datorate fenomenelor meteo extreme*, Revista „Tehnologiile energiei: producerea, transportul și distribuția energiei electrice și termice” Vol.46 nr.11/Noiembrie 2013, editat ICEMENERG SA, București, ISSN 1842-7189, pag.25 - 33
- D3. Ioan FELEA, **István CSUZI**, Sebastian SILAGHI, *Energy Efficiency Assessment for an Urban Electric Transport Systems*, ENERGETICA, anul 60, nr.04/ aprilie 2012, ISSN 1453-2360, pag.152
- D4. Ioan FELEA, **István CSUZI**, Gabriel BENDEA, Emeric Sebastian SILAGHI - *The Reliability Modelling Of Urban Transport Systems Using Electrically Driven Trams*, Journal of Sustainable Energy, Vol.III, Nr.3, September, 2012, ISSN 2067-5534
- D5. Ioan FELEA, **István CSUZI**, Emeric Sebastian SILAGHI - *Global indicators used for the availability performance evaluation of an urban transport system using electrically driven trams*, Buletinul AGIR, 2012, pag. 447 - 455
- D6. Ioan FELEA, **István CSUZI**, Călin SECUI, Gabriel BENDEA – *Synthesis Study on the Operational Reliability of an Urban Transport System Using Electrically Driven Trams*, Journal of Sustainable Energy, Vol.III, Nr.1, March, 2012, ISSN 2067-5534
- D7. Miltiade CÂRLAN, Camelia BUȘ, **István CSUZI**, Valeriu BĂBĂU: *Modele decizionale multicriteriale în mentenanța sistemelor tehnice*, Revista „Tehnologiile energiei: producerea, transportul și distribuția energiei electrice și termice”, vol.44 nr.11/Noiembrie 2011, editat ICEMENERG SA, București, ISSN 1842-7189

- D8. **CSUZI István**, *Százöt éves a nagyváradi villamos*, VÁROSI KÖZLEKEDÉS, 2011/3-4, pp.228 - 233, HU ISSN 0133-0314,
- D9. **István CSUZI**, Ioan FELEA, Iosif LINGVAY, Sebastian-Emeric SILAGHI, *Low Frequency Electromagnetic Fields Generated by the Supply Sistem of Trams*, EEA, ISSN 1582-5175, Vol. 59, nr. 1, ian.-mar. 2011, pp. 37 - 40.
- D10. Iosif LINGVAY, **István CSUZI**, Emeric SILAGHI, Liana TUDOSE, Carmen LINGVAY, *Transportul electric pe șine – 2, Aspecte energetice privind exploatarea stațiilor de redresare și a căilor de rulare aferente transportului electric urban din Oradea*, EEA, ISSN 1582-5175, Vol. 58, nr. 4, oct.-dec. 2010, pp. 16 - 21.
- D11. Iosif LINGVAY, **István CSUZI**, Carmen LINGVAY, *Transportul electric pe șine – 1, Aspecte energetice și impactul asupra structurilor metalice adiacente căilor de rulare*, EEA, ISSN 1582-5175, Vol. 58, nr. 2, apr.-iun. 2010, pp. 26 - 34.
- D12. Ioan FELEA, **István CSUZI**, Emil DALE., Florin DAN, *Assessment Of Energy Efficiency For Urban Electric Transport Systems*, Journal of Sustainable Energy, ISSN 2067 – 5534, CNCSIS B+, Vol. I, No. 3, pp. 81 – 88, 2010,
- D13. Lingvay József, **CSUZI István**, Lingvay Carmen, Szatmári Ilona, *Kiegészítés háromfázisú villamos hálózat földeléseinek korróziós károsodása tárgyában készített tanulmányhoz - Contributions to the study of degradation by corrosion of ground plates in the three phased energetic system*, Elektrotechnika, ISSN 0367-0708, 2010/ 03, pp.7 - 11.
- D14. Lingvay József, Lingvay Carmen, **CSUZI István**, *Erősáramú kábelek korrózióvédelme és a kábelszigetelés élettartam növelése - Corrosion control and insulation increase of underground power cables*, Elektrotechnika, 2009 / 10, ISSN 0367-0708, pp.16-20.
- D15. Lingvay József, Groza Claudia, Lingvay Carmen, **CSUZI István**, *Erősáramú kábelek korrózió általi károsodásai - About the Degradation by Corrosion of Underground Power Cables*, Elektrotechnika, 2009 / 07-08, ISSN 0367-0708, pp.19-23.
- D16. Iosif LINGVAY, Carmen LINGVAY, **István CSUZI**, *Contribution to develop a modern technical solution for increase of maintenance and reliability of underground power lines by corrosion control of the underground power cables*, Analele Universității din Oradea – Fascicula de Energetică, ISSN 1224-1261, Vol. 15, Secțiunea nr. 3, 2009, pp.347-352.
- D17. Iosif LINGVAY, Claudia GROZA, **István CSUZI**, Carmen LINGVAY, Ovidiu CIOGESCU, *About the degradation mechanism of underground power cables*, Analele Universității din Oradea – Fascicula de Energetică, ISSN 1224-1261, Vol.15, Secțiunea nr. 1, 2009, pp.68-72.
- D18. Dan Doru MICU, Emil SIMION, Iosif LINGVAY, **István CSUZI**, Carmen LINGVAY, *Rezolvarea problemelor de interferență electromagnetică prin aplicarea metodelor de interpolare numerică*, EEA, ISSN 1582-5175, Vol. 57, nr. 2, apr.-iun. 2009, pp. 44-50.
- D19. Iosif LINGVAY, Călin HOMAN, **István CSUZI**, Carmen LINGVAY, Claudia GROZA, *Fiabilitatea instalațiilor energetice de medie tensiune. 2. Studii privind starea de degradare și defectarea unor LES de medie tensiune, din Cluj-Napoca*, EEA, ISSN 1582-5175, Vol. 57, nr. 2, apr.-iun. 2009, pp. 17-20.
- D20. Călin HOMAN, **István CSUZI**, Iosif LINGVAY, Carmen LINGVAY, *Fiabilitatea instalațiilor energetice de medie tensiune. 1. Studii privind evoluția incidentelor pe rețeaua de distribuție a energiei electrice Cluj-Napoca*, EEA, ISSN 1582-5175, Vol. 57, nr. 1, ian.-mart. 2009, pp. 31-35.
- D21. MICU Dan-Doru, LINGVAY József, **CSUZI István**, SIMION Emil, LINGVAY Carmen, *Az elektromágneses zavarások kiszámítása numerikus interpolálással - Numerical interpolation methods applied in electromagnetic interference problems*, Műszaki Szemle, ISSN 1454-0746, nr. 45, 2009, pp. 22-30.

#### Articole/studii publicate în volumele unor manifestări științifice internaționale recunoscute

- Vi1 **István CSUZI**: *The Key Role of Sustainable Urban Mobility Plans in the Development of Light Rail Train Networks in Central and Eastern European Countries. Study of Case: LRT Networks in Romania*, 13<sup>th</sup> National Light Rail and Streetcar Conference, American Public

- Transport Association (APTA) & Transport Research Board (TRB), Minneapolis, USA, 15-17 November 2015, <http://www.apta.com/mc/lightrail/program/Pages/default.aspx>
- Vi2 **István CSUZI**: *Romanian Tram Systems between past and future*, “Towards a humane city”-5<sup>th</sup> International Conference, Department for Traffic Engineering, Faculty of Technical Sciences, University of NOVI SAD, Serbia, 5-6 November 2015, ISBN 978-86-7892-349-4
- Vi3 **István CSUZI**: *PT of Oradea the catalyser of Metropolitan development*, BLACK SEA RAILWAY DAYS Regional Forum, 6-7 October 2015, Bucharest, <http://summit.railwaypro.com/program/>
- Vi4 **CSUZI István**: *Hogyan működik a nagyváradi közösségi közlekedés – elektronikus flotta menedzsment és kártyás jegyrendszer*, “T-SYSTEMS TEMATIK 2015” Magyarországi Közösségi Közlekedési Konferencia, Balatonfüred - Ungaria, 24-25 septembrie 2015, <https://rendezveny.t-systems.hu/t-systems-tematik-kozossegi-kozlekedesi-konferencia-2015/programok/>
- Vi5 **István CSUZI**, Botond CSUZI: *Obsolescence analysis of maintenance and operation of public transport systems. Case study: Tramway of Oradea*, CIE 2015, the 21<sup>th</sup> Regional Energy Forum, 4-5 June 2015, University of Oradea, <http://www.energy-cie.ro>, Journal of Sustainable Energy ISSN 2067-5534
- Vi6 Miltiade CÂRLAN, **István CSUZI**, Marius COSTEA: *Models concerning preventive verification of technical equipments*, CIE 2015, the 21<sup>th</sup> Regional Energy Forum, 4-5 June 2015, University of Oradea, <http://www.energy-cie.ro>, Journal of Sustainable Energy ISSN 2067-5534
- Vi7 **István CSUZI**: *The life cycle cost management aspects of maintenance in public transport systems. Arguments for a guide of trams modernization*, CIE 2015, the 21<sup>th</sup> Regional Energy Forum, 4-5 June 2015, University of Oradea, <http://www.energy-cie.ro>, Journal of Sustainable Energy ISSN 2067-5534
- Vi8 **CSUZI István**: *Nagyvárad Helyi Közlekedési Vállalat kötöttpályás közlekedése*, VIII. Városi Villamos Vasúti Pálya nap, Közlekedési Konferencia, MÁV-THERMIT & MVK Zrt, Miskolc - Ungaria, 23 aprilie 2015
- Vi9 **István CSUZI**: *Sustainable Urban Mobility Plans as first step for a livable city*, RAILWAY DAYS - Wider Black Sea Area Investment Summit, Bucharest 7-8 October 2014, <http://www.clubferoviar.ro/wpc/club-feroviar-platform/direct-business-communication/railway-days-wider-black-sea-area-railway-summit/?lang=en>
- Vi10 **István CSUZI**, Miltiade CÂRLAN, Marius COSTEA: *The evaluation of the durability of a batch of electrical engine starters based on a Weibull model*, CIE 2014, the 20<sup>th</sup> Regional Energy Forum, 05 - 07 June 2014, Băile FELIX, <http://www.energy-cie.ro>, Journal of Sustainable Energy ISSN 2067-5534
- Vi11 **CSUZI István**: *Sínen vagyunk - merre tart a nagyváradi villamos*, X. Regionális Közlekedési Konferencia, KTE (Közlekedési Tudományos Egyesület), Debrecen - Ungaria, 21-23 mai 2014, pp. 12-15
- Vi12 **István CSUZI**: *Weather extremes caused vulnerability of urban public transport. Study of case: Oradea*, “Towards a humane city”- 4<sup>th</sup> International Conference, Department for Traffic Engineering, Faculty of Technical Sciences, University of NOVI SAD, Serbia, 24-25 October 2013, ISBN 978-86-7892-349-4
- Vi13 **István CSUZI**, Florian GHIONEA, Luigino SZÉCSY: *Elaborating Sustainable Urban Mobility Plan of Oradea*, “Towards a humane city”- 4<sup>th</sup> International Conference, Department for Traffic Engineering, Faculty of Technical Sciences, University of NOVI SAD, Serbia, 24-25 October 2013, ISBN 978-86-7892-349-4
- Vi14 **CSUZI István**, *Szélsőséges időjárás hatásai az elektromos vontatású közszállítási rendszerekre. Esettanulmány: Nagyvárad NHKV Rt. – Weather extremes effects on Electric Driven Public Transport. Study of case: Oradea OTL SA , EMT – „International Conference on Energetics-Electrical Engineering and Computer Science” – XIV. ENELKO + XXIII. SzámOkt 2013, ISSN 1842-4546, Sibiu, october 10-13, 2013, pp. 21-28.*
- Vi15 LINGVAY József, **CSUZI István**, KAJTOR László, SZATMÁRI Ilona, LINGVAY Mónika: *Az egyenáramú vontatás kihatásai a vasbeton tartószerkezetekre. Esettanulmány – The*

- influence of d.c. trams about the concrete structures. Study of case*, EMT – „International Conference on Energetics-Electrical Engineering and Computer Science” – XIV. ENELKO + XXIII. SzámOkt 2013, ISSN 1842-4546, Sibiu, october 11-13, 2013, pp. 72-78
- Vi16 **István CSUZI**, Camelia BUȘ, Claudiu TEODOROF, Miltiade CÂRLAN: *A Fuzzy model regarding the management of preventive maintenance of some means of transportation to Oradea Transport Local SA*, CIE 2013 Regional Energy Forum, 23-25 May 2013, Băile FELIX, <http://www.energy-cie.ro>, Journal of Sustainable Energy ISSN 2067-5534
- Vi17 Ioan FELEA, **István CSUZI**, Călin SECUI, Eva BARLA: *Optimal dimensioning of public urban company tram parks*, CIE 2012 Regional Energy Forum, 23-25 May 2013, Băile FELIX, <http://www.energy-cie.ro>, Journal of Sustainable Energy ISSN 2067-5534
- Vi18 Ioan FELEA, **István CSUZI**, Sebastian SILAGHI: *Global indicators used for availability performance evaluation of an urban transport system using electrically driven trams*, WESC 2012 Regional Energy Forum, 29-30 June 2012, Suceava,
- Vi19 Miltiade CÂRLAN, **István CSUZI**, Sebastian SILAGHI, Claudiu TEODOROF, Camelia BUȘ: *Model bazat pe teoria stocurilor pentru determinarea numărului optim al echipelor de mentenanță corectivă la mijloacele de transport urban din cadrul OTL SA*, CIE 2012 Regional Energy Forum, 07-08 June 2012, Băile FELIX, Key Issue 5/1, <http://www.energy-cie.ro>, Journal of Sustainable Energy ISSN 2067-5534
- Vi20 Ioan FELEA, **István CSUZI**, Sebastian SILAGHI: *Synthesis study on the operational reliability of an urban transport system using electrically driven trams*, CIE 2012 Regional Energy Forum, 07-08 June 2012, Băile FELIX, Key Issue 5/1, <http://www.energy-cie.ro>, Journal of Sustainable Energy ISSN 2067-5534
- Vi21 Ioan FELEA, **István CSUZI**, Sebastian SILAGHI: *The reliability modelling of an urban transport system using electrically driven trams*, CIE 2012 Regional Energy Forum, 07-08 June 2012, Băile FELIX, Key Issue 5/1, <http://www.energy-cie.ro>
- Vi22 **István CSUZI**, *Trams, the base of public transport in Oradea*, “Towards a humane city”- 3-rd International Conference, Department for Traffic Engineering, Faculty of Technical Sciences, University of NOVI SAD, Serbia, 27-28 October 2011, ISBN 978-86-7892-349-4, CD paper articles group 1,
- Vi23 Ioan FELEA, **István CSUZI**, Sebastian SILAGHI, *Assessment of energy efficiency for urban electric transport systems*, CIE 2011 Regional Energy Forum, 13-17 June 2011, Băile FELIX, Key Issue 5/1, <http://www.energy-cie.ro>, Journal of Sustainable Energy ISSN 2067-5534
- Vi24 Carmen LINGVAY, **István CSUZI**, Iosif LINGVAY, Claudia GROZA, Virgil MARINESCU, *Study of Microbiological Degradations in the External Polymeric Layer of Power Cables*, The 29<sup>th</sup> Annual Conference "International Conference on Corrosion Mitigation and Surface Protection Technologies" 14-16 December 2010, Alexandria, Egypt,
- Vi25 **István CSUZI**, Tiberiu VESSELÉNYI, Constantin BUNGĂU, Mircea Bogdan TĂTARU, *Vibration and noise measurements of tram traffic*, 16-th Building Services, Mechanical and Building Industry Days, Exhibition and International Conference, 14 -15 October 2010, University of Debrecen, Faculty of Engineering, ISBN 978-963-473-423-9, pp. 477 - 488
- Vi26 Ioan FELEA, **István CSUZI**, Florin DAN, *The Power Electric Audit of Oradea Urban Transport Operator*, 8-th World Energy System Conference, 1-3 July 2010, Valahia University, Târgoviște
- Vi27 Ioan FELEA, **István CSUZI**, Emil DALE, Florin DAN, *Assessment of energy efficiency for urban electric transport systems*, FOREN 2010 Regional Energy Forum, 13-17 June 2010, Neptun – Olimp, Key Issue 5/1,
- Vi28 Ioan FELEA, **István CSUZI**, Florin DAN, Emeric – Sebastian SILAGHI, *Electro Energy Audit of Urban Transport Operator in Oradea*, FOREN 2010, WEC Regional Energy Forum, June 13-15 2010, Neptun-Olimp, Romania, Key Issue 5/1,
- Vi29 **István CSUZI**, Iosif LINGVAY, Emeric-Sebastian SILAGHI, Carmen LINGVAY, *Energy issues and the impact on adjacent metallic structures of running in urban electric transport systems*, 16-th Energy Engineering Conference CIE, Oradea/Băile Felix 28-29 mai 2010, CD- S3/ 3, Journal of Sustainable Energy, vol.I.no.1, ISSN 2067-5534, pp.103 - 109

- Vi30 **István CSUZI**, Iosif LINGVAY, Emeric-Sebastian SILAGHI, Carmen LINGVAY, *Urban electric rail transport – 2. Evaluation of energy losses due to deficiencies in rectifying stations and associated rails of urban electric transport in Oradea city*, 16-th Energy Engineering Conference CIE, Oradea/Băile Felix 28-29 mai 2010, CD-S3/14, Journal of Sustainable Energy, vol.I.no.2, ISSN 2067-5534, pp.78 - 82
- Vi31 **István CSUZI**, Iosif LINGVAY, Emeric-Sebastian SILAGHI, Carmen LINGVAY, *Urban electric rail transport – 3. Analysis and evaluation of energy losses on power lines and their insulation system*, 16-th Energy Engineering Conference CIE, Oradea/Băile Felix 28-29 mai 2010, CD-S3/15, Journal of Sustainable Energy ISSN 2067-5534
- Vi32 Carmen LINGVAY, **István CSUZI**, Virgil MARINESCU, Claudia GROZA, Iosif LINGVAY, *Study of Microbiological Degradations in the External Polymeric Layer of Power Cables*, The 28<sup>th</sup> Annual Conference „Corrosion Challenges In Industry”, EGYCORR 2009, 14-17 December 2009, Ras Sudr, Egypt. CD– paper 10
- Vi33 Iosif LINGVAY, **István CSUZI**, Ioan FELEA, Sebastian-Emeric SILAGHI, Iulian IORDACHE, Georgeta ALECU, *Comparative Study on Intensity Radial Low Frequency Electromagnetic Fields from Various Disturbances*, 6-th International Workshop of Electromagnetic Compatibility CEM 2009, 12-14 November 2009, Constanța, Romania, paper 17.
- Vi34 **István CSUZI**, Ioan FELEA, Iosif LINGVAY, Sebastian-Emeric SILAGHI, *Low Frequency Electromagnetic Fields Generated by the Supply Sistem of Trams*, 6-th International Workshop of Electromagnetic Compatibility CEM 2009, 12-14 November 2009, Constanța, Romania, paper 23
- Vi35 **CSUZI István**, *A nagyváradi villamosok megbízhatósági modellezése - A reliability model of trams in Oradea*, EMT – „International Conference on Energetics-Electrical Engineering and Computer Science” – X ENELKO + XIX SzámOkt 2009, ISSN 1842-4546, Târgu Mureș, october 8-11, 2009, pp. 110-116.
- Vi36 **CSUZI István**, Nagy István, *Villamosközlekedés Nagyváradon – Trams in Oradea*, EMT – „International Conference on Energetics-Electrical Engineering and Computer Science” – X ENELKO + XIX SzámOkt 2009, ISSN 1842-4546, Târgu Mureș, october 8-11, 2009, pp.117-122.
- Vi37 LINGVAY József, **CSUZI István**, *Az egyenáramú vontatású városi közszállítás energiafogyasztása - The energy Consumption of D.C. Electrical Powered Urban Transportation*, EMT – „International Conference on Energetics-Electrical Engineering and Computer Science” – X ENELKO + XIX SzámOkt 2009, ISSN 1842-4546, Târgu Mureș, october 8-11, 2009, pp. 105-109.
- Vi38 Iosif LINGVAY, Dănuț-Ionel VĂIREANU, Carmen LINGVAY, **István CSUZI**, *Protection of underground pipelines again alternative stray currents*, (WP 16), EUROCORR 2009 The European Corrosion Congress, 6 - 10 September 2009, Nice, France, SS 1-O- 7936.
- Vi39 Iosif LINGVAY, Carmen LINGVAY, **István CSUZI**, *Contribution to develop a modern technical solution for increase of maintenance and reliability of underground power lines by corrosion control of the underground power cables*, 10<sup>th</sup> International Conference on Engineering of Modern Electric Systems, EMES'09, Oradea, Romania, May 27-29, 2009, CD, paper 3.5.
- Vi40 Iosif LINGVAY, Claudia GROZA, **István CSUZI**, Carmen LINGVAY, Ovidiu CIOGESCU, *About the degradation mechanism of underground power cables*, 10<sup>th</sup> International Conference on Engineering of Modern Electric Systems, EMES'09, Oradea, Romania, May 27-29, 2009, CD, paper 1.13.
- Vi41 Iosif LINGVAY, Carmen LINGVAY, Ovidiu CIOGESCU, **István CSUZI**, *Contributions to study of degradation by corrosion of underground power cables*, International Conference on Corrosion and Modern Technologies in the Military - ICCMTM 2008 - November 5 - 8, 2008, Bucharest, Romania, p.17
- Vi42 MICU Dan-Doru, **CSUZI István**, LINGVAY József, *Fémszerkezetek elektromágneses zavarásainak számítása - Calculation of Electromagnetic Interference of Metallic Structures*, EMT – „International Conference on Energetics-Electrical Engineering and Computer

Science” – IX ENELKO + XVIII SzámOkt 2008, ISSN 1842-4546, Șumuleu-Ciuc, october 9-12, 2008, pp. 45-51.