

Nume Prenume: **Dr.-ing. IMECS Maria**

Gradul didactic: **profesor universitar emerit**

Instituția unde este titular: Universitatea Tehnică din Cluj-Napoca (UTCN)

Facultatea: Inginerie Electrică

Departamentul: Mașini și Acționări Electrice și Școala doctorală (IOSUD-UTCN)

L I S T A

lucrărilor științifice publicate

A. Teza de doctorat

„*Sisteme de reglare vectorială a poziției motoarelor asincrone alimentate de la convertoare*”, conducător științific Prof. Dr.-ing. KELEMEN Arpad, Institutul Politehnic din Cluj (astăzi Universitatea Tehnică din Cluj-Napoca), 1989.

B. Cărți și capitole în cărți publicate în ultimii 16 ani

1. I. I. Incze, Cs. Szabo, **Maria Imecs**: „*Incremental Encoder in Electrical Drives: Modeling and Simulation*”, **Studies in Computational Intelligence**, Editors: Imre J. Rudas, János Fodor, Janusz Kacprzyk, **Springer-Verlag**, Berlin, Heidelberg, ISBN 978-3-642-15219-1, e-ISBN 978-3-642-15220-7, DOI 10.1007/978-3-642-15220-7, **2010**, pp. 287-300.
2. **Maria Imecs**: „Unitary control theory of the electrical machine drives”, *Förderung der nachhaltigen Entwicklung im Donaauraum durch kulturelle und wissenschaftliche Zusammenarbeit* (Promovarea dezvoltării durabile în spațiul dunărean prin cooperare culturală și științifică), **Humboldt-Kolleg Cluj-2010**, Alexander von Humboldt Stiftung/Foundation, Humboldt-Transilvania Club, Klausenburg/Cluj-Napoca, Rumanian/Romania, **Editura Mediamira**, Cluj-Napoca, 2010, pp. 328-338.

C. Lucrări indexate ISI/BDI publicate în ultimii 16 ani

1. A. Kelemen, J. Ferencz, **Maria Imecs**, „Lyapunov control of a load torque emulator with bidirectional DC-DC converter”, 2025 29th International Conference on System Theory, Control and Computing (ICSTCC), which was in Cluj-Napoca, Romania, on October 9-11, 2025. **Articol în curs de publicare, indexată în BDI IEEE Xplore Digital Library.**
2. **Maria Imecs**, J. Ferencz, A. Kelemen: „*Simulation of the vector controlled PMSyM drive based on simplified modeling structures*”, **International Scientific Publications of Transylvanian Museum Society**, Comunicări Tehnico-științifice / **Papers on Technical Science–EME-MTSZ-MTK** Vol. 21, 2024, ISSN 2393-1280, pp. 36-47. DOI: <https://doi.org/10.33894/mtk-2024.21.06>. Lucrare prezențată la: XXIV-th International Conference on Technical Sciences MTU – MTNE 2023, conferință organizată de Asociația Muzeului din Ardeal – EME, Cluj-Napoca, 21 noiembrie 2023.
3. J. Ferencz, A. Kelemen, **Maria Imecs**, „*Particle swarm optimization of an electric vehicle hybrid energy storage system*”, **ANNALS of Faculty Engineering Hunedoara, International Journal of Engineering**, vol. 20, pp. 23-30, Aug. 2022. ISSN 1584-2665 (printed version); ISSN 2601-2332 (online); ISSN-L 1584 – 2665. This paper was presented at CNAE 2022 – XXth National Conference of Electric Drives, organized by University POLITEHNICA Timisoara, Faculty of Faculty of Electrotechnics and Electroenergetics (ROMANIA), in Timisoara, ROMANIA, in 12-13 May, 2022. **Articolul este indexat în BDI EBSCO.**
<https://annals.fih.upt.ro/pdf-full/2022/ANNALS-2022-3-02.pdf>
4. J. Ferencz, A. Kelemen, **Maria Imecs**: „Optimal power sharing control of the hybrid energy storage system of an electric vehicle along a standard driving cycle”, *Acta Universitatis Sapientiae Electrical*

- and Mechanical Engineering, vol. 14, pp. 50-64, 2022. DOI: <https://doi.org/10.2478/auseme-2022-0005>. **Revistă indexată în BDI Ulrichsweb, iar articolul este indexat în BDI ProQuest.**
5. Ferencz J., Kelemen A., **Imecs Maria**: „Control of an electric vehicle hybrid energy storage system”, *International Scientific Publications of Transylvanian Museum Society*, Transylvanian Museum Society, lucrare apărută în publicația serială Comunicări Tehnico-științifice / *Papers on Technical Science EME-MTSZ-MTK*, Vol. 14, Aug. 2021, ISSN 2393-1280, pp. 77-88. DOI: <https://doi.org/10.33894/mtk-2021.14.12>
Lucrare prezențată la: XXI-th International Conference on Technical Sciences MTU – MTNE 2020, videoconferință organizată de Asociația Muzeului din Ardeal – EME, Cluj-Napoca, 21 noiembrie 2020.
 6. Szabo Cs., Szoke E., Szekely N., Zacharias V., **Imecs Maria**: Analysis of Current-Feedback PWM Procedures Based on Hysteresis and Current-Carrier-Wave Control for VSI-Fed Induction Motor Drive, In Proc. of 2019 International Aegean Conference on Electrical Machines and Power Electronics, ACEMP 2019 and 2019 International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2019, 27-29 Aug. 2019, Bahcesehir Univ, Istanbul, TURKEY, ISBN 978-1-5386-7687-5, pp. 351-358 (ISI Proceedings).
 7. **Imecs Mária**, Szabó Cs., Incze J. J. Szőke n. Benk Enikő: ”Simulation of the vector controlled synchronous generator supplying a DC line”, The XVI-th International Conference on Technical Sciences, **MTU - aMTNE 2015**, organized by the Transylvanian Museum Society (Asociația Muzeului din Ardeal), e-Book edited by the Department of the Engineering Sciences, Cluj-Napoca, 2015, ISBN: 978-606-8178-80-6, pp. , <http://hdl.handle.net/10598/28082>, (BDI).
 8. Szabó Cs., **Imecs Mária**, Szőke n. Benk Enikő, Incze J. J.: ”Implementation of the double field-oriented control structure for sensorless cage induction motor”, The XV-th International Conference on Technical Sciences, **MTU - aMTNE 2014**, organized by the Transylvanian Museum Society (Asociația Muzeului din Ardeal), e-Book edited by the Department of the Engineering Sciences, Cluj-Napoca, 2014, ISBN: 978-606-8178-80-6, pp. , <http://hdl.handle.net/10598/28082>, (BDI)
 9. Kacsó Zoltán, Kelemen András, **Imecs Mária**: ”Vector control of induction motor fed by voltage controlled inverter”, XIX *International Scientific Youth Conference – EME FMTU 2014*, Ed. by The Transylvanian Museum Association, Cluj, 2014, ISSN 2067-6 808, pp. 225-228, <http://eda.eme.ro/handle/10598/28186>, (BDI)
 10. **Imecs Mária**, Szabo Cs, Szőke Benk Enikő, Incze I. I.: „Simulation of the double field-oriented control structure of sensorless cage induction motor,” XIX International Scientific Youth Conference **EME- FMTU 2014**, Ed. by The Transylvanian Museum Association., Cluj-Napoca, 2014, ISSN 2067-6 808, pp. 213-216. , <http://eda.eme.ro/handle/10598/28186>, (BDI).
 11. Enikő Benk Szőke, Cs. Szabó, **Mária Imecs**, I. I. Incze: „Double Field Oriented Sensorless Control of Cage Induction Motor”, 15th *IEEE International Symposium on Computational Intelligence and Informatics*, CINTI 2014, Nov. 19-21, 2014, Budapest, Hungary, pp. , ISBN 978-963-7154-96.
 12. Ionescu A. V., **Imecs Maria**, Incze I.: ”Current-Controlled PWM Strategy with Carrier Wave for Limiting the Switching Frequency of Three-Phase Voltage-Source Inverter in Vector Control of Induction Machine”, Journal of Computer Science and Control Systems – **JCSCS 2013**, Vol. 6, Nr.1, May 2013, Oradea, published by University of Oradea Publisher, ISSN 1844 – 6043, pp. 48-51, (BDI), http://electroinf.uoradea.ro/images/articles/CERCETARE/Reviste/JCSCS/JCSCS_VOL_6_NO_1_MAY_2013.pdf
 13. Negrea C. A., **Imecs Maria**, Incze I. I.: ”Control of induction motors using an incremental encoder as position transducer”, in Journal of Computer Science and Control Systems – **JCSCS 2013**, Vol. 6, Nr.1, May 2013, Oradea, published by University of Oradea Publisher, ISSN 1844 – 6043, pp. 67-70, (BDI), http://electroinf.uoradea.ro/images/articles/CERCETARE/Reviste/JCSCS/JCSCS_VOL_6_NO_1_MAY_2013.pdf

14. Rus D. C., Incze I. I., **Imecs Maria**, Szabó Cs.: "Vector Control Implementation for a Wound-Excited Synchronous Generator Neglecting the Damping Effect" *ELECTROMOTION* an International Journal devoted to Research, Development, Design and Application of Electromechanical Energy Converters, Actuators and Transducers, Vol. 20, Nr. 1-4, Jan. -Dec. 2013 (4 issues per volume), Special Issue: Proceedings of the 10th Jubilee International Symposium on Advanced Electromechanical Motion Systems **ELECTROMOTION 2013** Cluj-Napoca, Romania, Oct. 21-22, 2013, Mediamira Science Publisher, ISSN 1223-057X, pp. 178-182. (BDI)
15. Rus D. C., **Imecs Maria**, Incze I. I., Szabo Cs., "Investigation by simulation of motor and generator mathematical models for an electrically excited synchronous machine running in generator mode", **Buletinul AGIR**, Nr. 4, 2012, Oct-Dec, pp. 67-72, (lucrare prezentată la a XVI-lea Conferință Națională de Acționări Electrice, **CNAE 2012** Suceava, Oct. 2012), ISSN-L 1224-7928, BDI: Index Copernicus International, Online: ISSN 2247-3548, www.buletinulagir.agir.ro/articol.php?id=1515, www.buletinulagir.agir.ro/numar_revista.php?id=76.
16. Pop, A. V., Incze, I. I., **Imecs, Maria**, Negrea, C. A., Szabo, Cs., "Current-controlled PWM strategy with carrier wave for constant switching frequency", *Proceedings of 2012 IEEE International Conference on Automation Quality and Testing Robotics - AQTR 2012 (THETA 18)*, Cluj-Napoca, Romania, DOI: 10.1109/AQTR.2012.6237730, ISBN: 978-1-4673-0703-1, pp. 347-351.
17. Negrea, C. A., **Imecs, Maria**, Incze, I. I., Pop, A. V., Szabo, Cs., "An improved speed identification method using incremental encoder in electric drives" *Proceedings of 2012 IEEE International Conference on Automation Quality and Testing Robotics - AQTR 2012 (THETA 18)*, Cluj-Napoca, Romania, DOI: 10.1109/AQTR.2012.6237769, ISBN: 978-1-4673-0703-1, pp. 536-540.
18. Negrea, C. A., **Imecs Maria**, Incze, I. I., Pop, A. V., Szabo, Cs., "Error compensation methods in speed identification using incremental encoder", *Proceedings of 2012 International Conference and Exposition on Electrical and Power Engineering - EPE 2012*, 25-27 October, Iasi, Romania, ISBN: 978-1-4673-1171-7, pp. 441-445.
19. Rus D. C., Preda N. S., Teodorescu R., **Maria Imecs**, "Compensation methods applied in current control schemes for large AC drive systems," *Proceedings of 13th International Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2012*, Brasov, 2012, ISBN: 978-1-4673-1650-7, DOI: 10.1109/OPTIM.2012.6231934, pp. 350-355. (Proceeding indexat ISI)
20. N. Kutasi, Andras Kelemen, **Maria Imecs**: „Predictive control of voltage-fed induction heating inverters”, *Analele Universitatii Craiova*, Seria *Inginerie Electrica*, ISSN 1842-4805, Nr. 34, Vol. 2, anul 2010, pp. 83-88. (BDI)
21. D. C. Rus, N. S. Preda, I. I. Incze, **Maria Imecs**, Cs. Szabó: "Comparative analysis of PWM techniques: simulation and DSP implementation", *IEEE International Conference on Automation, Quality and Testing, Robotics - AQTR 2010 (THETA 17)*, May 2010, Cluj-Napoca, Romania, ISBN: 978-1-4244-6722-8, pp. 377-382.
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23. M. I. Toderici Simona N. Toderici, **Maria Imecs**: "Optimization of induction motor control using genetic algorithms", *IEEE International Conference on Automation, Quality and Testing, Robotics - AQTR 2010 (THETA 17)*, May 2010, Cluj-Napoca, Romania, ISBN: 978-1-4244-6722-8, pp. 85-90. (Proceeding indexat ISI)
24. Szabo Cs., I. I. Incze, **Maria Imecs**: "Double-field orientation of unity power factor synchronous motor drive", 14th IEEE International Conference on Intelligent Engineering Systems **INES 2010**, Las Palmas of Gran Canaria, May 5-7, 2010, CD-ROM, ISBN 978-1-4244-7651-0.A.

25. Kelemen Andras, Kutasi N., **Maria Imecs**, I. I. Incze: “*Constrained optimal direct power control of voltage-source PWM rectifiers*”, 14th IEEE International Conference on Intelligent Engineering Systems **INES 2010**, Las Palmas of Gran Canaria, May 5-7, 2010, CD-ROM, ISBN 978-1-4244-7651-0.A. (Proceeding indexat ISI)
26. M. I. Toderici Simona N. Toderici, **Maria Imecs**: “*Induction motor control using genetic algorithms and graphic-analytical methods*”, 14th IEEE International Conference on Intelligent Engineering Systems **INES 2010**, Las Palmas of Gran Canaria, May 5-7, 2010, CD-ROM, ISBN 978-1-4244-7651-0.A. (Proceeding indexat ISI)
27. N. S. Preda, D. C. Rus, I. I. Incze, **Maria Imecs**, Cs. Szabó: “Analysis and DSP implementation of flat-top space-vector modulation”, *Scientific Bulletin of “Politehnica” University of Timișoara, Transactions on Automation Control and Computer Science (BS-UPT TACCS)*, Vol. 55 (69), No. 2, June 2010, ISSN 1224-600X, pp. 73-80. BDI: Index Copernicus International.

D. Lucrări publicate în ultimii 16 anii în reviste și volume de conferințe cu referenți (neindexate)

a. Reviste

1. Szabó Cs., Szőke Enikő, **Imecs Maria**, Incze I. I., Rus D. C.: “*Vector Control Implementation for a Wound - Excited Synchronous Generator Considering the Damping Effect*”, **CNAE 2016**, Octombrie 13-14, *Acta Electrotehnica*, Mediamira Science Publisher, Cluj Napoca, Romania, pp. 433-438, ISSN 2344-5637, ISSN-L 1841-3323
2. Cs. Szabo, **Maria Imecs**, I. I. Incze: “Synchronous motor drive at maximum power factor with double field-orientation”, *Acta Universitatis Sapientiae*, Vol. *Electrical and Mechanical Engineering*, Scientific Journal of Sapientia University of Transilvania, Vol. 2, 2010, Scientia Publishing House, Cluj-Napoca, ISSN 2065-5616, <http://www.acta.sapientia.ro> pp. 16-26.
3. I. I. Incze, A. Negrea, **Maria Imecs**, Cs. Szabo: “Incremental encoder based position and speed identification. Modeling and simulation”, *Acta Universitatis Sapientiae*, Vol. *Electrical and Mechanical Engineering*, Scientific Journal of Sapientia University of Transilvania, Vol. 2, 2010, Scientia Publishing House, Cluj-Napoca, ISSN 2065-5616, <http://www.acta.sapientia.ro>, pp. 27-39.

b. Selecție de lucrări în volume de conferințe

1. **Maria Imecs**, J. Ferencz, A. Kelemen: „*Vectorial-controlled permanent magnet synchronous machine drive – simple approach of modelling and simulation*”, lucrare publicată în volumul **XXIV. International Conference on Energetics-Electrical Engineering – ENELKO 2023**, Hungarian Technical Scientific Society of Transylvania – EMT, Vol. 24, 2024, ISSN 2734-6757, pp. 7-13. Lucrare prezenată la: conferința internațională ENELKO 2023, organizată de Societatea Tehnico-Științifică din Transilvania – EMT, Cluj-Napoca, 15. octombrie 2023. <http://ojs.emt.ro/index.php/enelko-szamokt>.
2. Ferencz Janos, Kelemen Andras, **Imecs Maria**: “Control of power electronic converters from an active parallel hybrid energy storage system”, XXI. International Conference of Energetics and Electrical Engineering - **ENELKO 2020**, videoconferință organizată de Societatea Tehnico-Științifică din Transilvania – EMT, Cluj-Napoca, 10. octombrie 2020, lucrarea publicată în volumul conferinței, ISSN 1842-4546, pp. 34-39. <http://ojs.emt.ro/index.php/enelko-szamokt>
3. Ferencz Janos, Kelemen Andras, **Imecs Maria**: “Energy management of a hybrid energy storage system”, XXI. International Conference of Energetics and Electrical Engineering - **ENELKO 2020**, videoconferință organizată de Societatea Tehnico-Științifică din Transilvania – EMT, Cluj-Napoca, 10. octombrie 2020, lucrarea publicată în volumul conferinței ISSN 1842-4546, pp. 40-45. <http://ojs.emt.ro/index.php/enelko-szamokt>.

4. Szabó Cs., Szőke (n. Benk) Enikő, **Imecs Mária**, Incze I.I.,: „*Analysis of Vectorial Compensation Procedures for V-Hz Controlled Asynchronous Motor Drives at Low Speed*”, *Proceedings of XVIII. International Conference of Energetics and Electrical Engineering ENELKO 2017*. Oct. 12-15, Oradea, Romania, pp.107-112, ISSN 1842-4546.
5. **Imecs Mária**, Szabó Cs., Incze I.I., Szőke (n. Benk) Enikő: „*Vector Controlled Synchronous Generator Running with AC Load*”, *Proceedings of XVIIth International Conference of Technical Sciences, MTNE MTU 2016*. Nov. 25-26, 2016, Cluj-Napoca, Romania, pp.103-114, ISSN 2393-1280, Published: 2017.
6. **Imecs Mária**, Szabó Cs., Szőke Enikő, Incze I. I., Rus D. C.: „*Vector Control of the Salient-pole Synchronous Generator with Damping Windings*”, *XVII. International Conference of Energetics and Electrical Engineering ENELKO 2016*, 6-9 oct., Ed. EMT, Cluj, Romania 2016, ISSN 1842-4546, pp.65-71.
7. Imecs Mária: „*Origin of Park-Vector and Hungarian References of its Spread*”, *IX. Conference on the History of Science and Technology – TTK 2016*, Leghia, Ed. EMT - Hungarian Technical Scientific Society of Transylvania Cluj, 2016, ISSN 23604255, ISSN-L 2360-4255, 1.f, pp. 34-41.
8. **Imecs Mária**, Szabó Cs., Incze I.I., Szőke (n. Benk) Enikő, Rus D.C.: „*Numerical Simulation and Implementation of the Vector Controlled of the Synchronous Generator*”, *Proceedings of 16th International Conference of Energetics and Electrical Engineering ENELKO 2015*, Arad, Romania, ISSN 1842 – 4546, pp 63-68.
9. Szabó Cs., Szőke Enikő, **Imecs Mária**, Incze I. I.: “*Vector Control of the Double Field-Oriented Speed Sensorless Asynchronous Motor Drive*”, *XIII. International Conference of Energetics and Electrical Engineering ENELKO 2014*, Odorheiu Secuiesc, Romania, ISSN 1842-4546, pp.
10. **Imecs Mária**: “*Double field-oriented control structure for sensorless cage induction motor drive, The XIV-th International Conference on Technical Sciences, MTU - aMTNE 2013*, organized by the [Transylvanian Museum Society](http://hdl.handle.net/10598/28082) (Asociația Muzeului din Ardeal), e-Book edited by the Department of the Engineering Sciences, Cluj-Napoca, 2013, ISBN: 978-606-8178-80-6, pp. 69-80. <http://hdl.handle.net/10598/28082>, (BDI)
11. Ionescu (b. Pop) A. V.; **Imecs Maria**; Incze I. I.; Szabó Cs., “*Performance Analysis of Three Current-Controlled PWM-Procedures Applied in Vector Control of Induction Machine Drives*”, *Proceedings of the 4th International Conference in Recent Achievements in Mechatronics, Automation, Computer Science and Robotics MACRo 2013*, Tg. Mures, Sapientia University, 2013, ISSN 2247 – 0948, ISSN-L 2247 – 0948, pp. 143-153.
12. Ionescu (b. Pop) A. V.; **Imecs Mária**; Szabó Cs.; Incze J. J., “*Simulation and performance analysis of current-controlled PWM-procedures applied in vector control of induction machine drives*”, *Proceedings of 14th International Conference on Energetics-Electrical Engineering ENELKO 2013*, Sibiu, Romania, 2013, ISSN 1842-4546, pp. 65-71.
13. **Imecs Mária**, Negrea C. Alin, Szabó Cs., Incze J. J.: “*Simulation of a vector control structure with indirect field-orientation based on active current regulation for speed sensorless induction motor*, *Proceedings of 14th International Conference on Energetics-Electrical Engineering ENELKO 2013*, Sibiu, 2013, Romania, ISSN 1842-4546, pp. 54-59 old.
14. **Imecs Maria**, Rus D. C., Szabo, Cs., Incze, I. I., “*Investigation by simulation of the mathematical models for a scalar controlled synchronous generator*, *Proceedings of 13th International Conference on Energetics-Electrical Engineering ENELKO 2012*, Alba-Iulia, Romania, ISSN: 1842-4546, pp. 90-95.
15. Negrea, C. A., Incze, I. I., **Imecs Maria**, Szabo, Cs., Pop, A. V., “*Compensation of errors in incremental encoder based speed identification*”, *Proceedings of 13th International Conference on Energetics-Electrical Engineering ENELKO 2012*, Alba-Iulia, Romania, ISSN: 1842-4546, pp. 123-128.

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17. Preda N. Șt., Rus D. C., **Imecs Maria**, Incze J. J., Szabó Cs.: „Vector control method using dual field orientation for speed control of induction motors”, 12th International Conference on Energetics, Electrical Engineering, **ENELKO 2011** & 21th International Conference on Computer and Education **SzamOkt**, 6-9 Oct. **2011**, Cluj, Romania, ISSN 1842-4546, pp. 68-74.
18. NEGREA A. C., INCZE J. J., **Imecs Maria**, POP A. V., SZABÓ Cs.: “Identification of position and speed using incremental encoder in electrical drives”, 12th International Conference on Energetics, Electrical Engineering, **ENELKO 2011** & 21th International Conference on Computer and Education **SzamOkt**, 6-9 Oct. **2011**, Cluj, Romania, ISSN 1842-4546, pp. 56-61.
19. **Imecs Maria**, “Modern control procedures of the electrical machines based on the space-phasor theory” *International Scientific Youth Conference – EME FMTU 2011*, Ed. by The Transylvanian Museum Association, Cluj, **2011**, ISSN 2067-6 808, pp. XIX-XLIV.
<http://eda.eme.ro/handle/10598/13994>, (BDI)
20. **Imecs Maria**: „From space-phasors to the modern control theory of the AC motor drives”, Plenary Session, Proceedings of the 3rd International Conference in Recent Achievements in Mechatronics, Automation, Computer Science and Robotics **MACRo2011**, Tg. Mures, Scientia Publishing House, Cluj-Napoca, 2011, ISBN 978-973-1970-54-7, pp. 1-22.
21. N. S. Preda, **Maria Imecs**, I. I. Incze - *Vector control method for squirrel-cage induction motors using dual field orientation*, published in "**PRODOC Conference Volume**", Cluj-Napoca, 24 June **2011**.
22. **Imecs Maria**: ”Principiul reglării unitare a mașinilor electrice pe baza teoriei fazorilor spațiali”, A **2-a** Conferinței Internaționale Interdisciplinară de Economie, Tehnică și Științe Naturale – **BBK 2011** Balatonlelle, **2011**, (PPT, 54 pagini)
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23. **Maria Imecs**: „Vector control of the current-excited synchronous generators”, Proceedings of the 2nd International Conference in Recent Achievements in Mechatronics, Automation, Computer Science and Robotics **MACRo2010**, Tg. Mures, Scientia Publishing House, Cluj-Napoca, 2010, ISBN 978-973-1970-39-4, pp.143-154.
24. **Maria Imecs**, Csaba Szabó, Ioan Iov Incze: “Comparison of rotor- and stator-field-oriented control structures of the induction motors”, *11th International Carpathian Control Conference – ICC 2010*, Eger, Hungary, May 2010, ISBN 978-963-06-9289-2, pp. 35-38.
25. N. S. Preda, D. C. Rus, I. I. Incze, **Maria Imecs**, Cs. Szabó: “Fixed-point DSP implementation of advanced discontinuous PWM methods”, *11th International Carpathian Control Conference – ICC 2010*, Eger, Hungary, May 2010, ISBN 978-963-06-9289-2, pp. 149-152.
26. N. Kutasi, A. Kelemen, Sz. Matyasi, **Maria Imecs**: “Hardware implementation of explicit predictive control of three-phase PWM rectifiers”, *11th International Carpathian Control Conference – ICC 2010*, Eger, Hungary, May 2010, ISBN 978-963-06-9289-2, pp. 133-136.
27. M. I. Toderici, Simona N. Toderici, **Maria Imecs**: “Genetic algorithms, an modern approach of solving complex automation problems”, *11th International Carpathian Control Conference – ICC 2010*, Eger, Hungary, May 2010, ISBN 978-963-06-9289-2, pp. 463-466.
28. **Maria Imecs**: ”Modelarea și simularea convertoarelor electronice de putere în controlul energiei unei linii de distribuție de cc alimentată de la un generator sincron autonom și cuplată la rețeaua trifazată”, Conferința Provocări ale Rețelelor Electrice Inteligente în cadrul **Târgului Internațional RENEXPO® South Europe**, organizat de Institutul Național Român pentru Studiul Amenajării și

Folosirii Surselor de Energie - IRE REECO RO Expoziții SRL, Sala Palatului, București, **2010**, PPT, (50 pagini). <http://ro.scribd.com/doc/104063261/IMECS-convertoare>,
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www.google.ro/#q=imecs+maria&hl=ro&prmd=imvnso&ei=9T2NUI6kDY_jtQbYq4HQBg&start=40&sa=N&bav=on.2,or.r_gc.r_pw.r_qf.&fp=24503ce9e1a7fa26&bpcl=35466521&biw=1171&bih=633

E. Brevete obținute în întreaga activitate

1. KELEMEN Arpad, **IMECS Maria**: *Procedeu pentru comanda sistemului de reglare a vitezei motoarelor asincrone*, Brevet de invenție CNST OSIM, Nr. 75853/30.03.1979, Romania.
2. KELEMEN Arpad; CRIVII Mircea, **IMECS Maria**, MARSCHALKO Richard: *Procedeu de comanda a motorului asincron in regim de functionare incrementală*. Brevet de invenție CNST OSIM, Nr. 92709/28.04.1987, Romania.
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