

Teza de abilitare

Titlul: Proiectarea unor dispozitive utilizate în domeniul compatibilității electromagnetice

Universitatea Tehnică din Cluj-Napoca

Facultatea de Inginerie Electrică

Departamentul de Electrotehnică și Măsurări

Domeniul Inginerie Electrică

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Teza de doctorat

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Universitatea Tehnică din Cluj-Napoca

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Departamentul de Electrotehnică și Măsurări

Domeniul Inginerie Electrică

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Cărți

- [1] Răcășan Claudia, Țopa Vasile, **Răcășan Adina**, Munteanu Călin, *Modelarea numerică a câmpului electromagnetic*, Editura Casa Cărții de Știință, Cluj-Napoca, România, ISBN 978-973-133-170-6, 439 pagini, noiembrie 2007.
- [2] **Răcășan Adina**, Păcurar Claudia, Munteanu Călin, Țopa Vasile, *Aplicații de modelare numerică în câmp electromagnetic*, Editura Politehnica, Colecția „Electrotehnica”, Timișoara, România, ISBN 978-606-554-601-1, 276 pagini, 2013.
- [3] **Răcășan Adina N.**, Munteanu C., *Tehnici de îmbunătățire a performanțelor filtrelor EMI*, Editura UTPRESS, Cluj-Napoca, România, ISBN 978-606-737-006-5, 230 pagini, 2014.
- [4] Hebedean Claudia, Munteanu C., **Răcășan Adina**, *Studiul filtrelor EMI realizate în tehnologie electromagnetică planară*, Editura UTPRESS, Cluj-Napoca, România, ISBN 978-606-737-095-9, 221 pagini, 2015.
- [5] **Răcășan Adina N.**, Munteanu C., Țopa V., Păcurar Claudia, Constantinescu Claudia, *Modelarea numerică a câmpului electromagnetic. Îndrumător de laborator – Volumul 1*, Editura U.T.Press, Cluj-Napoca, România, ISBN 978-606-737-195-6, 228 pagini, 2016.
- [6] Păcurar Claudia, **Giurgiuman Nicoleta-Adina**, Crețu Mihaela, Marian-Răzvan Gliga, Andreica Sergiu-Iulian, *Bazele electrotehnicii, Îndrumător de laborator*, Editura U.T.Press, Cluj-Napoca, România, ISBN 978-606-737-492-6, 156 pagini, 2020.
- [7] **Giurgiuman Adina N.**, Munteanu C., Țopa V., Păcurar Claudia, Constantinescu Claudia, *Modelarea numerică a câmpului electromagnetic. Îndrumător de laborator – Volumul 2*, Editura U.T.Press, Cluj-Napoca, România, ISBN 978-606-737-195-6, 278 pagini, 2021.

Capitole de carte

- [1]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, *Techniques to Reduce the Equivalent Parallel Capacitance for EMI Filters Integration*, Mathematics in Industry, Springer, vol. 11, Book Chapter, pp. 295-300, ISBN 978-3-540-71979-3, ISSN 1612-3956, WOS:000250107700031, March 2007.
https://link.springer.com/chapter/10.1007/978-3-540-71980-9_31
- [2]. Constantinescu C., Pacurar C., **Giurgiuman Adina**, Munteanu C., Andreica S., Gliga R., *The Influence of Electromagnetic Waves Emitted by PIFA Antennas on the Human Head*. 7th International Conference on Advancements of Medicine and Health Care through Technology. MEDITECH 2020. IFMBE Proceedings, vol 88. Springer, Book Chapter, pp. 77-91, ISSN 1680-0737, 1 January 2022.
https://link.springer.com/chapter/10.1007/978-3-030-93564-1_10
- [3]. Constantinescu Claudia, Pacurar Claudia, **Giurgiuman Adina**, Munteanu Calin, *Influence of the Conventional and Planar Yagi Uda Antenna on Human Tissues*, International Conference on Advancements of Medicine and Health Care through Technology MEDITECH 2022, IFMBE Proceedings, vol. 102, Springer, Book Chapter, pp. 87-98, https://doi.org/10.1007/978-3-031-51120-2_10, ISBN 978-3-031-51119-6, 09 January 2024.
https://link.springer.com/chapter/10.1007/978-3-031-51120-2_10
- [4]. Claudia Constantinescu, Claudia Pacurar, **Adina Giurgiuman**, Calin Munteanu, Sergiu Andreica, Marian Gliga, Sabin Dusa, *13.56 MHz RFID Module – from Application to Process Modelling and Effects on Human Health*, 9th edition of the International Conference on Advancements of Medicine and Health Care through Technology – MediTech 2024, 2024, spre indexare Springer Book Chapter
- [5]. Marian Razvan Gliga, **Adina Giurgiuman**, Calin Munteanu, Sergiu Iulian Andreica, Claudia Pacurar, Claudia Constantinescu, Marius Botezatu, *Analysis of human exposure to electric and magnetic fields while charging and driving an electric vehicle*, 9th edition of the International Conference on Advancements of Medicine and Health Care through Technology – MediTech 2024, 2024, spre indexare Springer Book Chapter.

Articole publicate în reviste și respectiv în volume proceedings indexate WOS Thomson-Reuters

ISI Journal

- [1]. **Racasan Adina**, Munteanu C., Topa V., Purcar M., Grindei Laura, *Computation of the Potential Induced on the Fluid Transport Pipelines by Overhead High Voltage Lines*, Environmental Engineering and Management Journal, vol. 10, no. 4, pp. 505-510, ISSN: 15829596, WOS: 000292409400006, FI=1.004, 2011.
[Computation of the potential induced on the fluid transport pipelines by overhead high voltage lines-Web of Science Core Collection](#)
- [2]. Pop I. T., Topa V., Munteanu C., **Racasan Adina**, Merdan E., *Human Exposure To Power Frequency Electric Field Inside Very High Voltage Substations*, Environmental Engineering and Management Journal, vol. 10, no. 4, pp. 499-504, ISSN: 15829596, WOS: 000292409400005, F.I.=1.004, 2011.
[Human exposure to power frequency electric field inside very high voltage substations-Web of Science Core Collection](#)
- [3]. Munteanu C., Mates G., Purcar M., Țopa V., Pop I. T., Grindei L., **Răcășan Adina**, *Electromagnetic field model for the numerical computation of voltages induce don buried pipelines by high voltage overhead power lines*, The European Physical Journal Applied Physics, vol. 58, no. 3, pp. 30902-p1 - 30902-p9, ISSN: 1286-004, WOS:000306101400012, F.I.=0.710, 2012.
[Electromagnetic field model for the numerical computation of voltages induced on buried pipelines by high voltage overhead power lines-Web of Science Core Collection](#)
- [4]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Application of Windings Shifting for the Optimization of Planar Structures*, Environmental Engineering and Management Journal, vol.

- 12, pp. 1153-1159, ISSN 1582-9596, WOS:000325632500007, F.I. =1.258, 2013.
[Application of Windings Shifting for the Optimization of Planar Structures-Web of Science Core Collection](#)
- [5]. Păcurar Claudia, Țopa V., Munteanu C., **Răcășan Adina**, Hebedean Claudia, *Studies of Inductance Variation for Square Spiral Inductors using CIBSOC Software*, Environmental Engineering and Management Journal, vol. 12, pp. 1161-1169, ISSN 1582-9596, WOS:000325632500008, F.I.=1.258, 2013.
[Studies of Inductance Variation for Square Spiral Inductors using Cibsoc Software-Web of Science Core Collection](#)
- [6]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, *Analysis and Improvement Techniques for the Transfer Function of a Planar Low-Pass Filter*, Environmental Engineering and Management Journal, vol. 15, no. 12, pp. 2579-2586, ISSN 1582-9596, WOS:000393476600004, F.I. =1.096, 2016.
[Analysis And Improvement Techniques for the Transfer Function of a Planar Low - Pass Filter-Web of Science Core Collection](#)
- [7]. Pacurar Claudia, Topa V., **Giurgiuman Adina**, Munteanu C., Constantinescu Claudia, Gliga M., Andreica S., *High Frequency Analysis and Optimization of Planar Spiral Inductors used in Microelectronic Circuits*. Electronics Journal, vol 10, Iss 23, 2897, ISSN: 2079-9292, IF: 2.397, 2021.
[High Frequency Analysis and Optimization of Planar Spiral Inductors Used in Microelectronic Circuits-Web of Science Core Collection](#)
- [8]. Constantinescu Claudia, Pacurar Claudia, **Giurgiuman Adina**, Munteanu C., Andreica S., Gliga M., *High Gain Improved Planar Yagi Uda Antenna for 2.4 GHz Applications and Its Influence on Human Tissues*. Applied Sciences-Basel, vol. 13, no. 11, 6678, ISSN: 2076-3417, DOI10.3390/app13116678, WOS:001005579400001, IF: 2.7, 2023, Q1.
[High Gain Improved Planar Yagi Uda Antenna for 2.4 GHz Applications and Its Influence on Human Tissues-Web of Science Core Collection](#)
- [9]. **Giurgiuman Adina**, Gliga M., Bojita A., Andreica S., Munteanu C., Topa V., Constantinescu Claudia, Pacurar Claudia, *Software Program for the Evaluation of Human Exposure to Electric and Magnetic Fields*. Technologies Journal, vol. 11, no. 6, 159, DOI 10.3390/technologies11060159, eISSN 2227-7080, WOS:001131210900001, IDS Number DH7S7, IF: 3.6, Q1, 2023.
[Technologies | Free Full-Text | Software Program for the Evaluation of Human Exposure to Electric and Magnetic Fields \(mdpi.com\)](#)
- [10]. Constantinescu, Claudia, Andreica Sergiu, Laszlo Rapolti, **Giurgiuman Adina**, Gliga Marian, Munteanu Calin, Pacurar Claudia, *Numerical Modeling, Analysis, and Optimization of RFID Tags Functioning at Low Frequencies*, Applied Sciences 14, no. 20, 9544, DOI 10.3390/app14209544, WOS:001341713500001, IF: 2.7, Q1, 2024.
[Numerical Modeling, Analysis, and Optimization of RFID Tags Functioning at Low Frequencies-Web of Science Core Collection](#)
- [11]. Pacurar Claudia, Topa Vasile Constantinescu Claudia, Munteanu C., Gliga M., Andreica, S., **Giurgiuman Adina**, *Adapting the Formula for Planar Spiral Inductors' Inductance Computation to the New Oval Geometric Shape*, Ideal for Designing Wireless Power Transfer Systems for Smart Devices. Mathematics 2025, 13, 348, DOI10.3390/math13030348, eISSN 2227-7390, WOS:001418678900001, IDS Number W4Z6P, IF:2.3, 2025.
[Adapting the Formula for Planar Spiral Inductors' Inductance Computation to the New Oval Geometric Shape, Ideal for Designing Wireless Power Transfer Systems for Smart Devices-Web of Science Core Collection](#)
- [12]. Constantinescu Claudia, **Pacurar Claudia**, Giurgiuman Adina, Munteanu Calin, Andreica Sergiu, Gliga Marian, Grindei Laura, *From Antenna Optimization to MIMO Structures: A Unified Design Framework*, Technologies, 13, no. 4: 153. <https://doi.org/10.3390/technologies13040153>, Q1, 2025.
[From Antenna Optimization to MIMO Structures: A Unified Design Framework](#)

ISI Proceedings

- [1]. Antonescu Oana, Munteanu C., **Răcășan Adina**, Răcășan Claudia, *Numerical Analysis Of 1 μ S Unit Pulse And 1.2/50 μ S Waves Propagation On High Voltage Lines*, EUROCON 2007, IEEE Region 8 Eurocon 2007 Conference „Computer as a Tool”, Varsovia, Polonia, pp. 2528-2533, ISBN: 978-1-4244-0812-2, WOS:000257261901190, 2007.
[Numerical analysis of 1 mu s unit pulse and 1.2/50 mu s waves propagation on high voltage lines-Web of Science Core Collection](#)
- [2]. Munteanu C., Topa V., **Răcășan Adina**, Visan Gh., Pop I. T., *Computation Methods and*

Experimental Measurements of the Electric and Magnetic Field Distribution inside High Voltage Substations, 11th Int. Conf. on Electromagnetics in Advanced Applications, ICEAA'09, Torino, Italia, pp. 253-256, ISBN: 978-1-4244-3385-8, 2009.

[e Computation Methods and Experimental Measurements of the Electric and Magnetic Field Distribution inside High Voltage Substations-All Databases \(webofscience.com\)](#)

- [3]. Munteanu C., Visan Gh., Pop I. T., Topa V., Merdan E., **Răcășan Adina**, *Electric and Magnetic Field Distribution inside High and Very High Voltage Substations*, 20th Int. Zurich Symposium on Electromagnetic Compatibility, Zurich, Elvetia, pp. 257-260, ISBN 978-3-95232864-4, 2009.
[Electric and Magnetic Field Distribution inside High and Very High Voltage Substations-Web of Science Core Collection](#)
- [4]. Munteanu C., Pop I. T., Visan Gh., Topa V., **Răcășan Adina**, Purcar M., *Analysis of the Power Frequency Electric Field Generated by High Voltage Substations*, Proc. of the 2010 Asia-Pacific Int. Symposium on Electromagnetic Compatibility, Beijing, China, pp. 707-710, ISBN: 978-1-4244-5621-5, 12-16 Aprilie 2010.
[Analysis of the Power Frequency Electric Field Generated by High Voltage Substations-Web of Science Core Collection](#)
- [5]. Munteanu C., Topa V., **Răcășan Adina N.**, Pop I., Merdan E., *Study of the Electric Field Distribution Inside High Voltage Substations*, 10th International Symposium on Electromagnetic Compatibility - EMC Europe 2011 York, pp. 581-585, ISBN: 978-095411463-3, York, 26-28 September 2011.
[Study of the Electric Field Distribution Inside High Voltage Substations-Web of Science Core Collection](#)
- [6]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Optimum geometry for planar structures regarding their loss factor*, Proceedings of the International Conference and Exposition on Electrical and Power Engineering, 7th edition, EPE 2012, Iași, România, pp. 693-698, ISBN: 978-1-4673-1172-4, WOS:000324685300126, October 25-27, 2012.
[Optimum Geometry for Planar Structures Regarding their Loss Factor-Web of Science Core Collection](#)
- [7]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Antonescu Oana, *Technologies to Increase HF Losses in Planar Structures and their Limitations*, 13th International Conference on Optimization of Electrical and Electronic Equipment – OPTIM 2012, Brasov, Romania, 24-26 May 2012, pp. 48 – 53, ISBN: 978-1-4673-1653-8, ISSN 18420133, WOS:000398866700007, 2012.
[Technologies to Increase HF Losses in Planar Structures and their Limitations-Web of Science Core Collection](#)
- [8]. Păcurar Claudia, Topa V., **Răcășan Adina**, Munteanu C., *Inductance Calculation and Layout Optimization for Planar Spiral Inductors*, 13th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2012, Brașov, România, pp. 225 – 232, ISBN: 978-1-4673-1653-8, ISSN 18420133, WOS:000398866700034, 2012.
[Inductance Calculation and Layout Optimization for Planar Spiral Inductors-Web of Science Core Collection](#)
- [9]. Păcurar Claudia, Topa V., **Răcășan Adina**, Munteanu C., Hebedean Claudia, *Spiral Inductors Inductance Computation And Layout Optimization*, Proceedings of the International Conference and Exposition on Electrical and Power Engineering, 7th edition, EPE 2012, Iași, România, pp. 699-704, ISBN: 978-1-4673-1172-4, WOS:000324685300127, October 25-27, 2012.
[Spiral Inductors Inductance Computation and Layout Optimization-Web of Science Core Collection](#)
- [10]. **Răcășan Adina**, Munteanu C., Topa V., Păcurar Claudia, Hebedean Claudia, *Minimization of the Equivalent Parallel Capacitance in Planar Magnetic Integrated Structures*, 13th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2012, Brașov, România, pp. 219 – 224, ISBN: 978-1-4673-1653-8, ISSN 18420133, WOS:000398866700033, 24-26 May 2012.
[Minimization of the Equivalent Parallel Capacitance in Planar Magnetic Integrated Structures-Web of Science Core Collection](#)
- [11]. **Răcășan Adina**, Munteanu C., Topa V., Păcurar Claudia, Hebedean Claudia, *Minimization of the Equivalent Parallel Capacitance in Planar Magnetic EMI Filters*, Proceedings of the International Conference and Exposition on Electrical and Power Engineering, 7th edition, EPE 2012, Iași, România, pp. 519-524, ISBN: 978-1-4673-1172-4, WOS:000324685300090, 2012.
[Minimization of the Equivalent Parallel Capacitance in Planar Magnetic EMI Filters-Web of Science Core Collection](#)
- [12]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Parasitic Capacitance Removal with Embedded Ground Layer*, IEEE EuroCon 2013, Zagreb, Croatia, pp. 1863-1868, ISBN 978-1-4673-2232-4, WOS:000343135600275, 1-4 July 2013.
[Parasitic Capacitance Removal with an Embedded Ground Layer-Web of Science Core Collection](#)

- [13]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Analysis of the Influence of Parasitic Parameters on Planar Transformers*, 14th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2014, Brașov, România, pp. 40–45, ISBN 978-1-4799-5183-3, WOS:000343551300006, 2014.
[Analysis of the Influence of Parasitic Parameters on Planar Transformers-Web of Science Core Collection](#)
- [14]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Efficiency determination for the improvement methods used for planar structures applied on EMI filters*, Proc. of the 2014 International Conference and Exposition on Electrical and Power Engineering, EPE 2014 Iași, România, pp. 627-632, ISBN 978-1-4799-5849-8, WOS:000353565300115, 2014.
[Efficiency Determination for the Improvement Methods Used for Planar Structures Applied on EMI Filters-Web of Science Core Collection](#)
- [15]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Improving EMI Filters by Decreasing their Parasitic Capacitance*, Proc. of the 2014 International Conference on Applied and Theoretical Electricity, ICATE 2014, Craiova, România, pp. 1-6, ISBN 978-1-4799-4161-2, WOS:000352737400066, 2014.
[Improving EMI Filters by Decreasing their Parasitic Capacitance-Web of Science Core Collection](#)
- [16]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Hebedean Claudia, Cislariu Mihaela, D. Rafiroiu, *High Frequency Modeling of Square Spiral Inductor*, Proc. of the 2014 International Conference and Exposition on Electrical and Power Engineering, EPE 2014, Iași, România, pp. 622-626, ISBN 978-1-4799-5849-8, WOS:000353565300114, 2014.
[High Frequency Modeling of Square Spiral Inductor-Web of Science Core Collection](#)
- [17]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Hebedean Claudia, *Spiral Inductors Analysis and Modelling*, 14th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2014, Brașov, România, pp. 210–215, ISBN 978-1-4799-5183-3, WOS:000343551300030, 22-24 May 2014.
[Spiral Inductors Analysis and Modelling-Web of Science Core Collection](#)
- [18]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, Adam Ema, *Numerical Analysis and Modelling of the Electromagnetic Interferences in Integrated Planar Structures*, 16th International Conference on Harmonics and Quality of Power, ICHQP 2014, Bucharest, România, pp. 122-126, ISBN 978-146736487-4, ISSN 2164-0610, WOS:000343776100026, 2014.
[Numerical Analysis and Modeling of the Electromagnetic Interferences in Integrated Planar Structures-Web of Science Core Collection](#)
- [19]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, Cislariu Mihaela, *Methods for Planar Integrated Low Pass Filter Performance Improvements in High Frequency*, Proc. of the 2014 International Conference and Exposition on Electrical and Power Engineering, EPE 2014, Iași, România, pp. 617-621, ISBN 978-1-4799-5849-8, WOS:000353565300113, 2014.
[Methods for Planar Integrated Low Pass Filter Performance Improvements in High Frequency-Web of Science Core Collection](#)
- [20]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, *Filter Geometry Optimisation for the Conduction Electromagnetic Interferences Suppression*, 14th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2014, Brașov, România, pp. 46 – 51, ISBN 978-1-4799-5183-3, WOS:000343551300007, 2014.
[Filter Geometry Optimization for the Conduction Electromagnetic Interferences Suppression-Web of Science Core Collection](#)
- [21]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, *Electromagnetic Interferences Suppression in Planar Integrated Devices*, Proc. of the 2014 International Symposium on Electromagnetic Compatibility, EMC Europe 2014, Gothenburg, Sweden, pp. 940-945, ISBN 978-1-4799-3225-2, ISBN:978-1-4799-3226-9, ISSN 10774076, WOS:000364988600170, 2014.
[Electromagnetic Interferences Suppression in Planar Integrated Devices-Web of Science Core Collection](#)
- [22]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Rafiroiu D., Hebedean Claudia, *High Frequency 3D Modeling of Spiral Inductors*, 2014 International Conference on Production Research–Regional Conference Africa, Europe and the Middle East 3rd International Conference on Quality and Innovation in Engineering and Management, ICPR-AEM-QIEM 2014, Cluj-Napoca, România, pp. 379-383, ISBN 978-973662978-5, WOS:000346410700046, 2014.
[high Frequency 3D Modeling of Spiral Inductors-Web of Science Core Collection](#)
- [23]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *HF Losses Improvement for a*

- Planar Integrated EMI Filter*, 2014 International Conference on Production Research – Regional Conference Africa, Europe and the Middle East 3rd International Conference on Quality and Innovation in Engineering and Management, ICPR-AEM-QIEM 2014, Cluj-Napoca, România, pp. 235-240, ISBN 978-973-662-978-5, WOS:000346410700046, 2014.
[HF LOSSES IMPROVEMENT FOR A PLANAR INTEGRATED EMI FILTER-Web of Science Core Collection](#)
- [24]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, Augustin D., *The Influence of Parameters on the Parasitic Capacitance Values in a Planar Transformer*, The 9th International Symposium on Advanced Topics in Electrical Engineering, ATEE 2015, Bucuresti, România, pp. 838 – 343, ISBN 978-1-4799-7514-3, WOS:000368159800154, 2015.
[The Influence of Parameters on the Parasitic Capacitance Values in a Planar Transformer-Web of Science Core Collection](#)
- [25]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, Marcu C., *Home Appliances Conducted Electromagnetic Emissions Analysis and Mitigation Methods*, The 9th International Symposium on Advanced Topics in Electrical Engineering, ATEE 2015, Bucuresti, România, pp. 356 – 361, ISBN 978-1-4799-7514-3, WOS:000368159800067, 2015.
[Home Appliances Conducted Electromagnetic Emissions Analysis and Mitigation Methods-Web of Science Core Collection](#)
- [26]. Pop F., Munteanu C., **Răcășan Adina**, Păcurar Claudia, Prusu S., Mihai G., *Evaluation of Conducted Disturbances from LED Lamps According to EN 55015*, 2016 International Conference on Communications COMM 2016, Bucuresti, România, pp. 517-520, ISBN 978-1-4673-8197-0, WOS:000383221900103, 2016.
[Evaluation of Conducted Disturbances from LED Lamps According to EN 55015-Web of Science Core Collection](#)
- [27]. Pop F., Munteanu C., Păcurar Claudia, **Răcășan Adina**, Prusu S., Avram A., Chiorean C., *Pre Compliance Test for Conducted Emissions*, 2016 International Conference on Production Research–Regional Conference Africa, Europe and the Middle East 4rd International Conference on Quality and Innovation in Engineering and Management, QIEM 2016, Cluj Napoca, România, pp. 191-196, ISBN 978-606-737-180-2, WOS:000436122900032, 2016.
[Pre-Compliance Test for Conducted Emissions-Web of Science Core Collection](#)
- [28]. Cretu Mihaela, Darabant Laura, **Răcășan Adina**, *Modelling the Passive Behavior of the Nervous Cell. Influence of Electric Parameters Variation*, 5th International Conference on Advancements of Medicine and Health Care through Technology, MEDITECH, ISBN: 978-3-319-52875-5/978-3-319-52874-8, ISSN: 1680-0737; Cluj Napoca, Romania, 2016.
[Modelling the Passive Behavior of the Nervous Cell. Influence of Electric Parameters Variation-Web of Science Core Collection](#)
- [29]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, Cislariu Mihaela, *Analysis, Identification and Minimization the Parasitic Effects of the Multilayer Spiral Inductors*, Proc. of the 2016 International Conference and Exposition on Electrical and Power Engineering, EPE 2016, Iași, România, pp. 392-397, ISBN 978-1-4799-5849-8, WOS:000390706300079, ISSN: 2471-6855, 2016.
[Analysis, Identification and Minimization the Parasitic Effects of the Multilayer Spiral Inductors-Web of Science Core Collection](#)
- [30]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Constantinescu Claudia, Pop F., Andreica S., Cislariu Mihaela, *High Frequency Multilayer Spiral Inductors Modeling*, 2016 International Conference on Production Research–Regional Conference Africa, Europe and the Middle East 4rd International Conference on Quality and Innovation in Engineering and Management, QIEM 2016, Cluj Napoca, România, pp. 111-116, ISBN 978-606-737-180-2, WOS:000436122900019, 2016.
[High Frequency Multilayer Spiral Inductors Modeling-Web of Science Core Collection](#)
- [31]. Andreica S., Păcurar Claudia, Țopa V., **Răcășan Adina**, Constantinescu Claudia, Gliga M., *The Analysis of the Multilayer Spiral Inductors Parameters at High Frequency*, Proceedings - 2017 International Conference on Modern Power Systems, MPS 2017, Cluj-Napoca, România, ISBN 978-1-5090-6565-3/17, DOI: 10.1109/MPS.2017.7974429, 2017.
[The Analysis of the Multilayer Spiral Inductors Parameters at High Frequency-Web of Science Core Collection](#)
- [32]. Andreica Sergiu, Gliga Marian, **Răcășan Adina**, Munteanu Călin, Păcurar Claudia, Constantinescu Claudia, *Study of conducted electromagnetic emissions of a wireless power system*, 2017 International Conference on Electromechanical and Power Systems, SIELMEN 2017, DOI: 10.1109/SIELMEN.2017.8123296, pp. 191-195, ISBN 978-1-5386-1845-5, 2017.

- [33]. Prusu S., Munteanu C., **Racasan Adina**, Pop F., Gliga R., *The Influence of Vibrations on Conducted Emissions*, 7th International Conference on Modern Power Systems (MPS), ISBN 978-1-5090-6565-3/17, Cluj Napoca, România, 2017.
[The Influence of Vibrations on Conducted Emissions-Web of Science Core Collection](#)
- [34]. Pop F., Munteanu C., **Racasan Adina**, Prusu S., *The Assessment of human exposure to Radiated Fields from different types of lighting*, 7th International Conference on Modern Power Systems (MPS), Cluj-Napoca, România, ISBN 978-1-5090-6565-3/17, 2017.
[The Assessment of human exposure to Radiated Fields from different types of lighting-Web of Science Core Collection](#)
- [35]. Gliga M., **Răcășan Adina**, Munteanu C., Andreica S., Păcurar Claudia, Țopa V., Constantinescu Claudia, *The Influence of Ferrite on the Spiral Inductors Inductance used for the Design of Wireless Power Systems*, Proceedings - 2017 International Conference on Modern Power Systems, MPS 2017, Cluj-Napoca, România, ISBN 978-1-5090-6565-3/17, DOI: 10.1109/MPS.2017.7974431, 2017.
[The Influence of Ferrite on the Spiral Inductors Inductance used for the Design of Wireless Power Systems-Web of Science Core Collection](#)
- [36]. **Răcășan Adina**, Păcurar Claudia, Munteanu C., Constantinescu Claudia, Andreica S., Dusa S., *High Frequency Analysis of Monolayer Spiral Inductors*, Proceedings - 2017 International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2017 and 2017 Intl Aegean Conference on Electrical Machines and Power Electronics, ACEMP 2017, Brașov, România, pp. 116 – 121, ISBN 978-1-5090-4488-7/17, DOI: 10.1109/OPTIM.2017.7974957, 2017.
[High Frequency Analysis of Monolayer Spiral Inductors-Web of Science Core Collection](#)
- [37]. Constantinescu Claudia, Munteanu C., **Racasan Adina**, Păcurar Claudia, *Influence of the Patch Antenna Feeding on their Parameters*, 10th International Conference and Expositions on Electrical and Power Engineering (EPE), pp 235-240, ISBN 978-1-5386-5062-2, 2018.
[Influence of the Patch Antenna Feeding on their Parameters-Web of Science Core Collection](#)
- [38]. Constantinescu Claudia, Munteanu C., Pacurar Claudia, **Racasan Adina**, Gliga M., Andreica S., *High Frequency Analysis of Bowtie Antennas*, 2019 11th International Symposium on Advanced Topics in Electrical Engineering, ATEE 2019, Bucharest, Romania, ISBN: 978-147997514-3, DOI 10.1109/ATEE.2019.8724972, WOS: 000475904500129, 2019.
[High Frequency Analysis of Bowtie Antennas-Web of Science Core Collection](#)
- [39]. Andreica S., Munteanu C., Gliga M., Pacurar Claudia, **Giurgiuman Adina**, Constantinescu Claudia, Butnar L., Pop F., *EMC Study for Different Types of Lamps with the same Luminous Flux*, 8th International Conference on Modern Power Systems, MPS 2019, Cluj-Napoca, Romania, ISBN: 978-1-7281-0750-9, DOI: 10.1109/MPS.2019.8759671, WOS: 000612401900022, 2019.
[EMC Study for Different Types of Lamps with the same Luminous Flux-Web of Science Core Collection](#)
- [40]. Constantinescu Claudia, Munteanu C., Pacurar Claudia, **Giurgiuman Adina**, Andreica S., Gliga M., *Numerical Modeling and Parametric Analysis of Induction Plates*, 2019 8th International Conference on Modern Power Systems, MPS 2019, Cluj-Napoca, Romania, ISBN: 978-1-7281-0750-9, DOI: 10.1109/MPS.2019.8759793, WOS: 000612401900137, 2019.
[Numerical Modeling and Parametric Analysis of Induction Plates-Web of Science Core Collection](#)
- [41]. Pop F., Munteanu C., **Giurgiuman Adina**, Prusu S., Pop Alina, *The Calculation of “F” Factor and Evaluation of Radiation Emitted by UV Lamps*, Proceedings of 2019 International Conference on Modern Power Systems MPS 2019, Cluj-Napoca, România, ISBN 978-1-7281-0750-9, WOS: 000612401900062, 2019.
[The calculation of "F" factor and Evaluation of Radiation Emitted by UV Lamps-Web of Science Core Collection](#)
- [42]. Constantinescu C., Madas L.M., Grindei L., **Racasan Adina**, *Implementation of an App for Android Mobile Devices Designed for Electromagnetic Field Problems Solving*, 2019 8th International Conference on Modern Power Systems, MPS 2019, Cluj-Napoca, Romania, ISBN: 978-1-7281-0750-9, DOI: 10.1109/MPS.2019.8759688, WOS: 000612401900018, 2019.
[Implementation of an App for Android Mobile Devices Designed for Electromagnetic Field Problems Solving-Web of Science Core Collection](#)
- [43]. **Giurgiuman Adina**, Munteanu C., Pacurar Claudia, Constantinescu Claudia, Gliga M., Andreica S., *High Frequency Analysis of Bandpass Filters*, 8th International Conference on Modern Power

- Systems, MPS 2019, Cluj-Napoca, Romania, ISBN: 978-1-7281-0750-9, DOI: 10.1109/MPS.2019.8759731, WOS: 000612401900079, 2019.
[High Frequency Analysis of Bandpass Filters-Web of Science Core Collection](#)
- [44]. Gliga M., Munteanu C., Andreica S., Pacurar Claudia, Constatinescu Claudia, **Giurgiuman Adina**, *Study of Electromagnetic Immunity of Motors used in Automotive Applications*, 2019 International Conference on Electromechanical and Energy Systems, SIELMEN 2019, Craiova, Romania, ISBN: 978-1-7281-4012-4, DOI: 978-1-7281-4012-4, WOS: 000630287500054, 2019.
[Study of Electromagnetic Immunity of Motors used in Automotive Applications-Web of Science Core Collection](#)
- [45]. Gliga M., Munteanu C., Andreica S., Pacurar Claudia, Constatinescu Claudia, **Giurgiuman Adina**, Pop I., *Numerical Modeling and Parametric Analysis of a Switched Reluctance Motor*, 2019 8th International Conference on Modern Power Systems, MPS 2019, Cluj-Napoca, Romania, ISBN: 978-1-7281-0750-9, DOI: 10.1109/MPS.2019.8759688, WOS: 000612401900039, 2019.
[Numerical Modeling and Parametric Analysis of a Switched Reluctance Motor-Web of Science Core Collection](#)
- [46]. Pacurar Claudia, Topa V., **Giurgiuman Adina**, Munteanu C., Constantinescu Claudia, Andreica S., Gliga M., *Modelling and Analysis of the Halbach Array Magnets*, 2019 11th International Symposium on Advanced Topics in Electrical Engineering, ATEE 2019, Bucharest, Romania, 28-30 March 2019, ISBN: 978-147997514-3, DOI 10.1109/ATEE.2019.8724977, WOS:000475904500134, 2019.
[Modelling and Analysis of the Halbach Array Magnets-Web of Science Core Collection](#)
- [47]. Pacurar Claudia, Topa V., **Giurgiuman Adina**, Munteanu C., Constantinescu Claudia, Gliga M., Andreica S., *The Construction of a Wireless Power Supply System using Planar Spiral*, 2019 8th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, ISBN: 978-1-7281-0750-9, DOI: 10.1109/MPS.2019.8759779, WOS: 000612401900123, 2019.
[The Construction of a Wireless Power Supply System using Planar Spiral Inductors-Web of Science Core Collection](#)
- [48]. Andreica S., Munteanu C., Gliga M., Păcurar Claudia, **Giurgiuman Adina**, Constantinescu Claudia, Morari C., *Interlaboratory Comparison of Electromagnetic Fields in Power Supply Systems*, 2021 9th International Conference on Modern Power Systems (MPS), DOI 10.1109/MPS52805.2021.9492559, ISBN 978-1-6654-3381-5, WOS:000941563300019, 2021.
[Interlaboratory Comparison of Electromagnetic Fields in Power Supply Systems-Web of Science Core Collection](#)
- [49]. **Giurgiuman Adina**, Munteanu C., Pacurar Claudia, Constantinescu Claudia, Gliga M., Andreica S., *The Influence of the Geometric Shapes of the Component Elements of the Planar Filter on its Parameters*, 2021 9th International Conference on Modern Power Systems (MPS), DOI 10.1109/MPS52805.2021.9492641, ISBN 978-1-6654-3381-5, WOS:000941563300065, 2021.
[The Influence of the Geometric Shapes of the Component Elements of the Planar Filter on its Parameters-Web of Science Core Collection](#)
- [50]. Pacurar Claudia, Topa V., **Giurgiuman Adina**, Munteanu C., Constantinescu Claudia, Gliga M., Andreica S., *Planar Spiral Inductors Parameter Extraction needed to design a Wireless Power Supply System*, 2021 9th International Conference on Modern Power Systems (MPS), DOI 10.1109/MPS52805.2021.9492709, ISBN 978-1-6654-3381-5, WOS:000941563300104, 2021.
[Planar Spiral Inductors Parameter Extraction needed to design a Wireless Power Supply System-Web of Science Core Collection](#)
- [51]. Constantinescu Claudia, Pacurar Claudia, **Giurgiuman Adina**, Munteanu C., Andreica S., Gliga M., *Numerical Modelling and Analysis of Circular Patch Antenna Array for Further Use Determination*, 2021 9th International Conference on Modern Power Systems (MPS), DOI 10.1109/MPS52805.2021.9492557, ISBN 978-1-6654-3381-5, WOS:000941563300018, 2021.
[Numerical Modelling and Analysis of Circular Patch Antenna Array for Further Use Determination-Web of Science Core Collection](#)
- [52]. Gliga M., Munteanu C., Andreica S., Pacurar Claudia, **Giurgiuman Adina**, Constantinescu Claudia, *Optimization of the Control Circuit of a Wireless Power Supply System*, 2021 9th International Conference on Modern Power Systems (MPS), DOI 10.1109/MPS52805.2021.9492569, ISBN 978-1-6654-3381-5, WOS:000941563300022, 2021.
[Optimization of The Control Circuit of A Wireless Power Supply System-Web of Science Core Collection](#)

Articole în reviste și în volume ale unor manifestări științifice indexare în alte baze de date internaționale, BDI

BDI Journal

- [1]. **Racasan Adina**, Munteanu C., Topa V., Muresan T., Costin Ana-Maria, *Analysis of the Electromagnetic Interferences Generated by the HV Power Lines on the RF-type GSM Antennas*, Acta Electrotechnica, vol. 46, no. 4, pp. 204-209, ISSN 1841-3323, 2005.
http://scholar.google.com/scholar?start=50&q=Racasan+Adina&hl=en&as_sdt=0,5
http://scholar.google.com/scholar?q=Racasan+Analysis+of+the+Electromagnetic+Interferences+Generated+by+the+HV+Power+Lines+on+the+RF-type+GSM+Antennas&btnG=&hl=ro&as_sdt=0%2C5
- [2]. Antonescu Oana, Munteanu C., Topa V., **Răcășan Adina**, Răcășan Claudia, Plesa Mihaela, Man L., Vermesan C., Pop I. T., *Numerical Analysis of the Lightning Waves Propagation on High Voltage Lines*, Acta Electrotechnica Journal, vol. 46, no. 4, pp. 210-217, ISSN 1841-3323, 2005.
http://scholar.google.com/scholar?start=50&q=Răcășan+Adina&hl=en&as_sdt=0,5
http://ie.utcluj.ro/Contents_Acta_ET/2005/Number%204/Paper10_Antonescu.pdf
- [3]. Plesa Mihaela, Cret Laura, Ciupa R. V., Antonescu Oana, Răcășan Claudia, **Răcășan Adina**, Man L., *Remarks on the Electric Field Induced in Nerve Fibers by Magnetic*, Acta Electrotechnica Journal, vol. 46, no. 4, pp. 225-231, ISSN 1841-3323, 2005.
http://scholar.google.com/scholar?start=20&q=Răcășan+Adina&hl=en&as_sdt=0,5
http://ie.utcluj.ro/Contents_Acta_ET/2005/Number%204/Paper12_Plesa.pdf
- [4]. Răcășan Claudia, Topa V., **Răcășan Adina**, Munteanu C., Antonescu Oana, Man L., *On-Chip Inductance Extraction*, Acta Electrotechnica Journal, vol. 47, no. 1, pp. 51-54, ISSN 1841-3323, 2006.
http://scholar.google.com/scholar?start=20&q=Răcășan+Adina&hl=en&as_sdt=0,5
http://ie.utcluj.ro/Contents_Acta_ET/2006/Number%201/Paper09_Răcășan.pdf
- [5]. Răcășan Claudia, Topa V., **Răcășan Adina**, Antonescu Oana, Plesa Mihaela, *Study of On-Chip Inductance*, Acta Electrotechnica Journal, vol. 47, no. 1, pp. 45-50, ISSN 1841-3323, 2006.
http://scholar.google.com/scholar?start=20&q=Răcășan+Adina&hl=en&as_sdt=0,5
http://ie.utcluj.ro/Contents_Acta_ET/2006/Number%201/Paper08_Răcășan.pdf
- [6]. **Răcășan Adina**, Munteanu C., Topa V., Răcășan Claudia, Antonescu Oana, Plesa Mihaela, *Techniques to Reduce ESL for EMI Filters Integration*, Acta Electrotechnica, vol. 47, no. 1, pp. 41-44, ISSN 1841-3323, 2006.
http://scholar.google.com/scholar?start=20&q=Răcășan+Adina&hl=en&as_sdt=0,5
http://ie.utcluj.ro/Contents_Acta_ET/2006/Number%201/Paper07_Răcășan.pdf
- [7]. Purcar M., Munteanu C., Topa V., Grindei Laura, **Racasan Adina**, *Actual Stage of the Research Regarding the AC Interferences on Common Corridors*, Acta Electrotechnica, vol. 50, no. 4, pp. 289-294, ISSN: 1841-3323, Dec 2009.
http://scholar.google.com/scholar?q=Actual+Stage+of+the+Research+Regarding+the+AC+Interferences+on+Common+Corridors&btnG=&hl=en&as_sdt=0%2C5
http://www.old.ie.utcluj.ro/Contents_Acta_ET/2009/Number4/Paper11_Purcar.pdf
- [8]. Munteanu C., Topa V., Purcar M., Grindei Laura, **Racasan Adina**, *Numerical Computation of the Induced Potential on Pipelines by Overhead Lines*, Acta Electrotechnica, vol. 51, no. 4, pp. 285-289, ISSN: 1841-3323, 2010.
http://scholar.google.com/scholar?start=90&q=Munteanu+Calin&hl=en&as_sdt=0,5
http://ie.utcluj.ro/files/acta/2010/Number4/Paper12_Munteanu.pdf
- [9]. **Răcășan Adina**, Munteanu C., Topa V., Păcurar Claudia, Hebedean Claudia, Lup S., *Advances on Parasitic Capacitance Reduction of EMI Filters*, Analele Universitatii din Craiova, Seria Inginerie Electrica, pp. 220-223, ISSN 1842-4805, România, 2010.
[Advances On Parasitic Capacitance Reduction Of Emi Filters | Annals Of The \(indexcopernicus.com\)](http://www.indexcopernicus.com/Advances-On-Parasitic-Capacitance-Reduction-Of-Emi-Filters-Annals-Of-The)
- [10]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Antonescu Oana, *Parasitic Capacitance Cancellation for EMI Filters with an Embedded Ground Layer*, Analele Universitatii din Craiova, vol. 1, no. 35, Craiova, Romania, pp. 13-18, ISSN 1842-4805, 2011.
<http://elth.ucv.ro/fisiere/anale/2011/03.pdf>
http://scholar.google.com/scholar?hl=en&q=Racasan+Adina&btnG=&as_sdt=1%2C5&as_sdt=1

- [11]. **Răcășan Adina**, Munteanu C., Păcurar Claudia, Hebedean Claudia, *Method used in Order to Increase High Frequency Losses in Planar Structures*, Buletinul AGIR, nr.3/2013, pp. 51-56, ISSN 1224-7928, România 2013.
http://scholar.google.com/scholar?start=50&q=Răcășan+Adina&hl=en&as_sdt=0,5
<http://www.agir.ro/buletine/1808.pdf>
- [12]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Study of the Parasitic Capacitance Values in a Planar Structure when the High Frequency Loss Increase Methods are Applied*, Buletinul Institutului Politehnic din Iași, Tomul LIX(LXIII), Fasc.4, 2013, Sectia Electrotehnica, Energetica, Electronica, pp. 183-190, ISSN 1223-8139, 2013.
[Study of the Parasitic Capacitance Values in a Planar Structure When the Hi \(indexcopernicus.com\)](http://indexcopernicus.com)
- [13]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, *Improving Filter Performances for Conducted Electromagnetic Interferences Suppression*, Analele Universitatii „Eftimie Murgu” Resita, Anul XXI, nr. 3, pp. 223 – 234, ISSN 1453-7397, 2014.
[Improving Filter Performances for Conducted Electromagnetic Interferences Suppression – DOAJ](http://www.doaj.org/DOAJ/viewDocument?id=102305284&isbn)
- [14]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Hebedean Claudia, Rafiroiu D., Pop F. *Analysis of the Patch Antennas at High Frequency*, Acta Electrotehnica Journal, vol. 55, no. 3-4, pp. 169-173, ISSN 2344-5637, ISSN 1841-3323, România, 2014.
<https://open.ebsco.com/search/eds/details?query=Analysis%20of%20the%20Patch%20Antennas%20at%20High%20Frequency&requestCount=2&db=edo&an=102305284&isbn>
- [15]. **Răcășan Adina**, Munteanu C., Păcurar Claudia, Țopa V., Hebedean Claudia, Szabo L, *Numerical Modeling of Planar Electromagnetic Devices at High Frequency Using 3D CAD Programs*, Acta Electrotehnica Journal, vol. 55, no. 3-4, pp. 158-163, ISSN 2344-5637, ISSN L 1841-3323, România, Editura Mediamira, 2014.
<https://open.ebsco.com/search/eds/details?query=Numerical%20Modeling%20of%20Planar%20Electromagnetic%20Devices%20at%20High%20Frequency%20Using%20&requestCount=2&db=edo&an=102305282&isbn>
- [16]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, Pop F., Bulugheana A., *Influence of the Dielectric Layer on the Patch Antenna Parameters*, Acta Electrotehnica Journal, vol. 55, no. 3-4, pp. 164-168, ISSN 2344-5637, ISSN L 1841-3323, România, Editura Mediamira, 2014.
<https://open.ebsco.com/search/eds/details?query=Influence%20of%20the%20Dielectric%20Layer%20on%20the%20Patch%20Antenna%20Parameters&requestCount=2&db=edo&an=102305283&isbn>
- [17]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Hebedean Claudia, Raluca Oglejan, Gabriel Vlad, *Solenoid Actuator Parametric Analysis and Numerical Modeling*, Acta Electrotehnica, vol. 56, no. 3, pp. 246-251, ISSN: 1841-3323, România, 2015.
<https://open.ebsco.com/search/eds/details?query=Solenoid%20Actuator%20Parametric%20Analysis%20and%20Numerical%20Modeling&requestCount=2&db=edo&an=108706579&isbn>
- [18]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Constantinescu Claudia, Vid Mihaela, *Square Planar Spiral Inductor High Frequency Field and Parameters Analysis*, Acta Electrotehnica Journal, vol. 56, nr. 5, ISSN 2344-5637, ISSN-L 1841-3323, pp. 191-196, 2015.
<https://open.ebsco.com/search/eds/details?query=Square%20Planar%20Spiral%20Inductor%20High%20Frequency%20Field%20and%20Parameters%20Analysis&requestCount=2&db=edo&an=111950718&isbn>
- [19]. **Răcășan Adina**, Păcurar Claudia, Munteanu Călin, Țopa Vasile, Constantinescu Claudia, Szabo Lorand, Dodea Marius, *Electromagnetic Field Numerical Modeling using BEM2D*, Acta Electrotehnica Journal, vol. 56, nr. 5, ISSN 2344-5637, ISSN-L 1841-3323, pp. 197-202, 2015.
<https://open.ebsco.com/search/eds/details?query=Electromagnetic%20Field%20Numerical%20Modeling%20using%20&requestCount=2&db=edo&an=111950719&isbn>
- [20]. Constantinescu Claudia, Munteanu Călin, **Răcășan Adina**, Păcurar Claudia, Daniel Fazacaș, *Electromagnetic Modeling and Frequency Response Determination for Planar Integrated LC Structures*, Acta Electrotehnica Journal, vol. 56, nr. 5, ISSN 2344-5637, ISSN-L 1841-3323, pp. 203-208, 2015.
<https://open.ebsco.com/search/eds/details?query=Electromagnetic%20Modeling%20and%20Frequency%20Response%20Determination%20for%20Planar%20Integrated%20&requestCount=2&db=edo&an=111950720&isbn>
- [21]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, Mociran B., *Conducted Electromagnetic Emissions Analysis and Suppression Methods*, Acta Electrotehnica, vol. 56, no. 3,

pp. 291-296, ISSN: 1841-3323, România, 18-21 mai 2015.

<https://open.ebsco.com/search/eds/details?query=Conducted%20Electromagnetic%20Emissions%20Analysis%20and%20Suppression&db=edo&an=108706587&isbn>

- [22]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, Avram A., *Planar Transformers Improvement in the Conducted Emissions Frequency Range*, Acta Electrotehnica, vol. 56, no. 3, pp. 128-132, ISSN: 1841-3323, România, 2015.
<https://open.ebsco.com/search/eds/details?query=Planar%20Transformers%20Improvement%20in%20the%20Conducted%20Emissions%20Frequency&requestCount=2&db=edo&an=108706556&isbn>
- [23]. Pop F., Munteanu C., **Răcășan Adina**, Păcurar Claudia, Constantinescu Claudia, *A Parallel Study Between Today And Yesterday About Electromagnetic Conducted Disturbances*, Buletinul Institutului Politehnic din Iași, Tomul LXI (LXV), Fasc. 4, 2015, Secția Electrotehnică. Energetică. Electronică, pp. 33-43, ISBN 978-606-567-284-0, 2015.
[A Parallel Study Between Today and Yesterday about Electromagnetic Conducted \(indexcopernicus.com\)](https://open.ebsco.com/search/eds/details?query=Parallel%20Study%20Between%20Today%20and%20Yesterday%20about%20Electromagnetic%20Conducted%20Disturbances&requestCount=2&db=edo&an=108706556&isbn)
- [24]. **Răcășan Adina**, Păcurar Claudia, Țopa V., Constantinescu Claudia, Andreica S., *Techniques to Reduce the Parasitic Capacitance of the Multilayer Spiral Inductors*, Buletinul Institutului Politehnic din Iași, Secția Electrotehnică. Energetică. Electronică, vol. 62 (66), nr. 4, pp. 33-45, ISSN 1223-8139, 2016.
[Techniques to Reduce The Parasitic Capacitance of the Multilayer Spiral Ind \(indexcopernicus.com\)](https://open.ebsco.com/search/eds/details?query=Techniques%20to%20Reduce%20the%20Parasitic%20Capacitance%20of%20the%20Multilayer%20Spiral%20Inductors&requestCount=2&db=edo&an=108706556&isbn)
- [25]. Păcurar Claudia, **Răcășan Adina**, Constantinescu Claudia, Gliga Marian, Andreica Sergiu, *Practical Realisation and Analysis of Spiral Inductors for Wireless Power Supply Systems*, Acta Electrotehnica Journal, nr. 5/2016, vol. 57, ISSN 2344-5637, ISSN-L 1841-3323, pp. 548-553, 2016.
<https://open.ebsco.com/search/eds/details?query=Practical%20Realisation%20and%20Analysis%20of%20Spiral%20Inductors%20for%20Wireless%20Power%20Supply%20Systems&requestCount=2&db=edo&an=121702022&isbn>
- [26]. Constantinescu Claudia, **Răcășan Adina**, Păcurar Claudia, Andreica Sergiu, Pop Flaviu, *Induction Heating Spiral Inductor – Comparison between Practical Construction and Numerical Modeling*, Acta Electrotehnica Journal, nr. 5/2016, vol. 57, ISSN 2344-5637, ISSN-L 1841-3323, pp. 542-547, 2016.
<https://open.ebsco.com/search/eds/details?query=Induction%20Heating%20Spiral%20Inductor%20%E2%80%93%20Comparison%20between%20Practical%20Construction%20and%20Numerical%20Modeling&requestCount=2&db=edo&an=121702021&isbn>
- [27]. Păcurar Claudia, **Răcășan Adina**, Țopa Vasile, Munteanu Călin, Constantinescu Claudia, *Modeling, Simulation and Practical Realization of the Spiral Inductors Used in Wireless Power Systems*, Analele Universitatii din Craiova, Seria Inginerie Electrica, Speccial Issue, ISSN 1842-4805, pp.1-7, 2018.
<https://journals.indexcopernicus.com/api/file/viewByFileId/438874.pdf>
- [28]. Constantinescu C, Păcurar C, Munteanu C, **Giurgiuman Adina**, Andreica S., Gliga M, *Influence of the Geometrical Parameters of a Planar Yagi-Uda Antenna on its Performances*, IOP Conference Series: Materials Science and Engineering, ICEMS-BIOMED, 2022, pp. 1-12, DOI: 10.1088/1757-899X/1254/1/012017, 2022.
<https://iopscience.iop.org/article/10.1088/1757-899X/1254/1/012017/pdf>
- [29]. Păcurar C, Țopa V, **Giurgiuman Adina**, Munteanu C, Constantinescu C, Gliga M, Andreica S., *The influence of the patch antennas emissions on the human head*, IOP Conference Series: Materials Science and Engineering, ICEMS-BIOMED, 2022, pp. 1-14, DOI: 10.1088/1757-899X/1254/1/012018, 2022.
<https://iopscience.iop.org/article/10.1088/1757-899X/1254/1/012018/pdf>
- [30]. Constantinescu Claudia Alana, Pacurar Claudia, Giurgiuman Adina, Munteanu C., Dragan F., Andreica S., Gliga M., *The Influence of Human Tissues on the Patch Antennas' Parameters*, Transactions on Electromagnetic Spectrum, Vol.2, No.1, pp.38-48, Doi:10.5281/zenodo.7646244, 2023.
<https://tesjournal.com/index.php/home/article/view/25>
- [31]. Sergiu Andreica, Calin Munteanu, Claudia Constantinescu, Claudia Pacurar, **Adina Giurgiuman**, Marian Gliga and Sabin Dusa, *Design and Simulation of Three-Band Microstrip Resonator Bandpass Filters for Wireless Communication Systems*, IOP Conf. Series: Materials Science and Engineering

1320 (2024) 012006, doi:10.1088/1757-899X/1320/1/012006, 2024.

<https://iopscience.iop.org/article/10.1088/1757-899X/1320/1/012006/pdf>

- [32]. Sabin Duşa, Claudia Constantinescu, Adina Giurgiuman, Sergiu Andreica, Razvan Gliga, Claudia Pacurar, *The influence of the dielectric material on the planar antennas' parameters*, IOP Conf. Series: Materials Science and Engineering 1320 (2024) 012003, doi:10.1088/1757-899X/1320/1/012003, 2024.

<https://iopscience.iop.org/article/10.1088/1757-899X/1320/1/012003/pdf>

BDI Proceedings

- [1]. Antonescu Oana, Munteanu C., Țopa V., **Răcășan Adina**, Răcășan Claudia, Vermesan C., *Modeling the Propagation of the Lightning Pulse on High Voltage Lines*, Scientific Bulletin of the "Politehnica" University of Timisoara, Transaction on Power Engineering, Proc. of the 6th International Power Systems Conference, PSC 2005, Tom 50 (64) 2005, Fascicola 1-2, Timisoara, România, pp. 7-16, ISSN 1582-7194, 2005.
http://scholar.google.com/scholar?start=50&q=Răcășan+Adina&hl=en&as_sdt=0,5
http://www.et.upt.ro/cee/ro/psc/PSC2005/index_files/Papers/L2.pdf
- [2]. Plesa Mihaela, Cret Laura, Ciupa R. V., Cretu T., **Răcășan Adina**, Răcășan Claudia, *About the Determination of the Spatial and Temporal Distribution of the Electric Field Induced in Human Tissue During Magnetic Stimulation*, Scientific Bulletin of the "Politehnica" University of Timisoara, Transaction on Power Engineering, Proc. of the 6th International Power Systems Conference, PSC 2005, Tom 50 (64) 2005, Fascicola 1-2, Timisoara, România, pp. 451-456, ISSN 1582-7194, 2005.
http://scholar.google.com/scholar?start=50&q=Răcășan+Adina&hl=en&as_sdt=0,5
http://www.et.upt.ro/cee/ro/psc/PSC2005/index_files/Papers/L72.pdf
- [3]. **Răcășan Adina**, Munteanu C., Țopa V., Muresan T., Costin Ana-Maria, *Study of the Electromagnetic Interference Generated by the HV Power Lines on the GSM Antennas*, Scientific Bulletin of the "Politehnica" University of Timisoara, Transaction on Power Engineering, Proc. of the 6th International Power Systems Conference PSC 2005, Tom 50 (64) 2005, Fascicola 1-2, Timisoara, Romania, pp. 483-490, ISSN 1582-7194, 2005.
http://scholar.google.com/scholar?start=50&q=Răcășan+Adina&hl=en&as_sdt=0,5
http://www.et.upt.ro/cee/ro/psc/PSC2005/index_files/Papers/L77.pdf
- [4]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, Antonescu Oana, *Technologies to Improve High Frequency characteristics of Integrated EMI Filters*, Analele Universitatii din Craiova, Seria Inginerie Electrica, Anul 31, nr. 31, 2007, vol. I, 6th International Conference on Electromechanical and Power Systems, SIELMEN 2007, Chisinau, Republica Moldova, pp. 213-216, ISSN 1842-4805, 2007.
http://scholar.google.com/scholar?hl=en&q=Răcășan+Adina&btnG=&as_sdt=1%2C5&as_sdtplf=http://elth.ucv.ro/fisiere/anale/2007/140.pdf
- [5]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, Antonescu Oana, *HF Losses Increase of the Planar Integrated EMI Filters by Multi-Metal Metalization of the Windings*, Buletinul Institutului Politehnic din Iași, Sectia: electrotehnica, energetica, electronica, EPE 2010, Iași, România, pp. 83-86, ISBN 978-606-13-0071-6, 2010.
https://scholar.google.com/citations?user=8At8c98AAAAJ&hl=en&citsig=AMstHGTxNdfA3UD19ozlnqyP_aGmUDwVQ
- [6]. Munteanu C., Țopa V., Purcar M., Grindei Laura, **Răcășan Adina**, *Study of the Electric Field Generated by the High Voltage Substations*, 12th WSEAS International Conference on Mathematical Method and Computational Techniques in Electrical Engineering, MMACTEE'10, Timisoara, Romania, pp. 74-77, ISSN 1792-5967, ISBN 978-960-474-238-7, 2010.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-79958718680&origin=resultslist&sort=plf-f&src=s&st1=Răcășan+A&nlo=&nlr=&nls=&sid=978D1B4975A6A9CC0D3EBF163B7A1AFE.mw4ft95QGjz1tIFG9A1uw%3a980&sot=b&sdt=b&sl=22&s=AUTHOR-NAME%28Răcășan+A%29&relpos=25&relpos=5&citeCnt=1&searchTerm=AUTHOR-NAME%28Răcășan+A%29>
- [7]. Munteanu C., Țopa V., **Răcășan Adina N.**, Pop I., Merdan E., *Advances on the Electromagnetic Field Distribution Analysis inside High Voltage Substations*, 46th International Universities' Power Engineering Conference - UPEC 2011, Soest, Germany, pp. 1-5, ISBN: 978-3-8007-3402-3, 2011.

<https://ieeexplore.ieee.org/document/6125622?amumber=6125622&tag=1#citations>

- [8]. **Răcășan Adina**, Munteanu C., Țopa V., Pop I., Merdan E., *3D Electromagnetic Field Model for Numerical Analysis of the Electromagnetic Interferences between Overhead Power Lines and Pipelines*, 11th International Conference on Electrical Power Quality and Utilisation, Lisbon, Portugalia, pp. 641, ISSN: 2150-6647, ISBN 978-1-4673-0379-8, 2011.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-84857822881&origin=resultslist&sort=plf-f&src=s&st1=Racasan+A&nlo=&nls=&sid=978D1B4975A6A9CC0D3EBF163B7A1AFE.mw4ft95QGjz1tIFG9A1uw%3a980&sot=b&sdt=b&sl=22&s=AUTHOR-NAME%28Racasan+A%29&relpos=22&relpos=2&citeCnt=0&searchTerm=AUTHOR-NAME%28Racasan+A%29>
- [9]. **Răcășan Adina**, Munteanu C., Țopa V., Micu D., Păcurar Claudia, Hebedean Claudia, *Modeling and Mitigation Techniques of the Magnetic Integrated Structures Parasitic Capacitance*, Proceedings of the Universities Power Engineering Conference, UPEC 2012, London, UK, pp. 1 - 5, ISBN: 978-1-4673-2856-2, DOI: 10.1109/UPEC.2012.6398555, 2012.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-84872862874&origin=resultslist&sort=plf-f&src=s&st1=Modeling+and+Mitigation+Techniques+of+the+Magnetic+Integrated+Structures+Parasitic+Capacitance&sid=c48b2bd6e2f25b3d09929f079f4d455f&sot=b&sdt=b&sl=109&s=TITLE-ABS-KEY%28Modeling+and+Mitigation+Techniques+of+the+Magnetic+Integrated+Structures+Parasitic+Capacitance%29&relpos=0&citeCnt=4&searchTerm=>
- [10]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., *Inductance Computation and Layout Optimization for Spiral Inductors*, 9th World Energy System Conference, WESC 2012, Buletinul AGIR/AGIR Bulletin, nr. 3, ISSN 1224-7928, Suceava, România, pp. 675-682, 2012.
http://scholar.google.com/scholar?start=30&q=Răcășan+Adina&hl=en&as_sdt=0,5
<http://www.agir.ro/buletine/1453.pdf>
- [11]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., *CIBSOC Program – Spiral Inductor Inductance Calculation and Layout Optimization*, Scientific Computing in Electrical Engineering, SCEE 2012, Zurich, Switzerland, September 11-14, 2012.
http://scholar.google.com/scholar?start=40&q=Răcășan+Adina&hl=en&as_sdt=0,5
http://scee2012.ethz.ch/abstracts_new/SCEE12_Abstract_63_poster_Păcurar.pdf
- [12]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, *Structural Parasitic Capacitance Reduction Techniques in Planar Magnetic Integrated Structures*, 9th World Energy System Conference, WESC 2012, Buletinul AGIR/AGIR Bulletin, nr. 3, ISSN 1224-7928, Suceava, România, pp. 683-688, 2012.
http://scholar.google.com/scholar?start=30&q=Răcășan+Adina&hl=en&as_sdt=0,5,
<http://www.buletinulagir.agir.ro/articol.php?id=1454>
- [13]. Munteanu C., Țopa V., Mates G., Purcar M., **Racasan A.**, Pop I.T., *Analysis of the Electromagnetic Interferences between Overhead Power Lines and Buried Pipelines*, IEEE International Symposium on Electromagnetic Compatibility, ISSN: 10774076, ISBN: 978-146730718-5, pp. 1-6, Rome, Italy, 17-21 September 2012.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-84872575080&origin=resultslist&sort=plf-f&src=s&st1=Analysis+of+the+Electromagnetic+Interferences+between+Overhead+Power+Lines+and+Buried+Pipelines&sid=4d57fd2aa44b025637a8ffcac5827789&sot=b&sdt=b&sl=110&s=TITLE-ABS-KEY%28Analysis+of+the+Electromagnetic+Interferences+between+Overhead+Power+Lines+and+Buried+Pipelines%29&relpos=6&citeCnt=11&searchTerm=>
- [14]. Hebedean Claudia, Munteanu C., **Racasan Adina**, *Optimization of Planar Structures by Means of Shifted Winding*, Scientific Computing in Electrical Engineering – SCEE 2012, Zurich, Switzerland, September 11-14, 2012.
http://scee2012.ethz.ch/abstracts_new/SCEE12_Abstract_57_poster_Hebedean.pdf
- [15]. Hebedean Claudia, Munteanu C., **Racasan Adina**, *Study of LC Integrated Structures in Series Resonator Configuration*, 9th World Energy System Conference - WESC 2012, Buletinul AGIR/AGIR Bulletin, nr. 3, ISSN 1224-7928, Suceava, Romania, pp. 271-276, 2012.
http://scholar.google.com/scholar?start=30&q=Racasan+Adina&hl=en&as_sdt=0,5
<http://www.buletinulagir.agir.ro/articol.php?id=1394>
- [16]. **Răcășan Adina**, Munteanu C., Țopa V., Micu D., Păcurar Claudia, Adam Ema, *Modeling and Analysis of the Performance Improvement Techniques for EMI Filters*, Scientific Computing in Electrical Engineering, SCEE 2012, Zurich, Switzerland, September 11-14, 2012.
http://scholar.google.com/scholar?start=20&q=Răcășan+Adina&hl=en&as_sdt=0,5

- [17]. **Giurgiuman Adina**, Constantinescu Claudia, Pacurar Claudia, Topa V., Munteanu C., Gliga M., Andreica S., *The Analysis, Modelling and Comparison between Circular and Rectangular Patch Antennas*, 11th International Conference and Exposition on Electrical and Power Engineering - EPE 2020, ISBN: 978-1-7281-8126-4, DOI: 10.1109/EPE50722.2020.9305549, Iași, Romania, 22-23 Oct. 2020.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85102008486&origin=resultslist&sort=plf-f&src=s&st1=Pacurar&st2=Claudia&nlo=1&nlr=50&nls=count-f&sid=a9b49cd9ff9b76d704953820bb59eae1&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Pacurar%2c+Claudia%22+55050741400%29&relpos=6&citeCnt=0&searchTerm=>
- [18]. Andreica S., Munteanu C., Gliga M., Pacurar Claudia, **Giurgiuman Adina**, Constantinescu Claudia, *Design of Multilayer Spiral Coils with Different Geometries to Determine the Inductance*, 11th International Conference and Exposition on Electrical and Power Engineering - EPE 2020, ISBN:978-1-7281-8126-4, DOI: 10.1109/EPE50722.2020.9305615, Iași, Romania, 22-23 Oct. 2020.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85102002384&origin=resultslist&sort=plf-f&src=s&st1=Pacurar&st2=Claudia&nlo=1&nlr=50&nls=count-f&sid=a9b49cd9ff9b76d704953820bb59eae1&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Pacurar%2c+Claudia%22+55050741400%29&relpos=7&citeCnt=1&searchTerm=>
- [19]. Pacurar Claudia, **Giurgiuman Adina**, Constantinescu Claudia, Topa V., Munteanu C., Andreica S., Gliga M., *High Frequency Analysis of The Influence of Yagi-Uda Antenna on The Human Head*, 11th International Conference and Exposition on Electrical and Power Engineering - EPE 2020, Iași, Romania, DOI: 10.1109/EPE50722.2020.9305622, ISBN:978-1-7281-8126-4, 22-23 Oct. 2020.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85101981488&origin=resultslist&sort=plf-f&src=s&st1=Pacurar&st2=Claudia&nlo=1&nlr=50&nls=count-f&sid=a9b49cd9ff9b76d704953820bb59eae1&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Pacurar%2c+Claudia%22+55050741400%29&relpos=8&citeCnt=0&searchTerm=>
- [20]. Gliga M., Păcurar Claudia, Munteanu C., Andreica S., Constantinescu Claudia, **Giurgiuman Adina**, *Analysis of Different Type of Ring Inelar Permanent Magnets in order to Achieve a Uniform Magnetic Field Around Them*, 11th International Conference and Exposition on Electrical and Power Engineering - EPE 2020, Iași, Romania, ISBN:978-1-7281-8126-4, DOI: 10.1109/EPE50722.2020.9305525, 22-23 Oct. 2020.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85101964910&origin=resultslist&sort=plf-f&src=s&st1=Pacurar&st2=Claudia&nlo=1&nlr=50&nls=count-f&sid=a9b49cd9ff9b76d704953820bb59eae1&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Pacurar%2c+Claudia%22+55050741400%29&relpos=9&citeCnt=0&searchTerm=>
- [21]. Constantinescu Claudia, Munteanu C., Grindei Laura, **Giurgiuman Adina**, Pacurar Claudia, Gliga M., Andreica S., *High Frequency Analysis of the Vivaldi Antenna Parameters*, 11th International Conference and Exposition on Electrical and Power Engineering - EPE 2020, Iași, Romania, 22-23 October, ISBN: 978-1-7281-8126-4, DOI: 10.1109/EPE50722.2020.9305674, 2020.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85101961677&origin=resultslist&sort=plf-f&src=s&st1=Pacurar&st2=Claudia&nlo=1&nlr=50&nls=count-f&sid=a9b49cd9ff9b76d704953820bb59eae1&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Pacurar%2c+Claudia%22+55050741400%29&relpos=10&citeCnt=0&searchTerm=>
- [22]. Andreica Sergiu, Munteanu Calin, Gliga Marian, Pacurar Claudia, **Giurgiuman Adina**, Constantinescu Claudia, *Study of the Electromagnetic Field Generated by Wireless Communication Systems*, 2022 International Conference and Exposition on Electrical and Power Engineering (EPE), DOI: 10.1109/EPE56121.2022.9959779, ISBN: 978-1-6654-8994-2, 2022.
<https://ieeexplore.ieee.org/abstract/document/9959779>
- [23]. Gliga Marian, Munteanu Calin, Andreica Sergiu, Constantinescu Claudia, **Giurgiuman Adina**, Pacurar Claudia, Morar Denisa, *Study of Conduction Emissions of Household Appliances*, 2022 International Conference and Exposition on Electrical and Power Engineering (EPE), DOI: 10.1109/EPE56121.2022.9959764, ISBN: 978-1-6654-8994-2, 2022.
<https://ieeexplore.ieee.org/abstract/document/9959779>
- [24]. **Giurgiuman Adina**, Pacurar Claudia, Constantinescu Claudia, Munteanu Calin, Gliga Marian, Andreica Sergiu, *Analysis and Optimal Design of a Wireless Power Transfer System for Electrical Vehicles*, 2022 International Conference and Exposition on Electrical and Power Engineering (EPE), DOI: 10.1109/EPE56121.2022.9959810, ISBN: 978-1-6654-8994-2, 2022.
<https://ieeexplore.ieee.org/abstract/document/9959779>
- [25]. S. Andreica, C. Munteanu, M. Gliga, A. Giurgiuman, C. Pacurar and C. Constantinescu, "Development and Optimization of a Broadside-Coupled Dual-Band Microstrip Bandpass Filter for

Wireless Communication Systems," 2023 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, pp. 1-4, doi: 10.1109/MPS58874.2023.10187504, 2023.

[Development and Optimization of a Broadside-Coupled Dual-Band Microstrip Bandpass Filter for Wireless Communication Systems | IEEE Conference Publication | IEEE Xplore](#)

- [26]. Marian Gliga, Calin Munteanu, Sergiu Andreica, Adina Giurgiuman, Claudia Pacurar, Claudia Contantinescu, Bogdan Mociran, Denisa Ioana Morar, *The influence of the distance between the transmitter and the receiver of a wireless power system on the coupling factor and the voltage induced*, 2023 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, pp. 1-7, doi: 10.1109/MPS58874.2023.10187428, 2023

[The influence of the distance between the transmitter and the receiver of a wireless power system on the coupling factor and the voltage induced | IEEE Conference Publication | IEEE Xplore](#)

- [27]. Claudia Constantinescu, Calin Munteanu, Adina Giurgiuman, Claudia Pacurar, Sergiu Andreica, Marian Gliga, Burlacu Ruxandra, *Design and Optimisation of a Smart House Lighting System using Arduino*, 2023 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, pp. 01-06, doi: 10.1109/MPS58874.2023.10187582, 2023.

[Design and Optimisation of a Smart House Lighting System using Arduino | IEEE Conference Publication | IEEE Xplore](#)

- [28]. Constantinescu Claudia, Pacurar Claudia, Munteanu Calin, Giurgiuman Adina, Andreica Sergiu, Gliga Marian, Dusa Sabin, Steckel Melisa, *Optimizing MIMO Planar Structures for 2.4 GHz Applications*, 2024 IEEE International Conference and Exposition on Electrical and Power Engineering (EPEI), DOI: 10.1109/EPEI63510.2024.10758127, 2024.

<https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10758127>

Articole în reviste și în volumele unor manifestări științifice neindexare

Reviste neindexate

- [1]. Munteanu C., Țopa V., **Răcășan Adina**, Răcășan Claudia, Matis Gh., *Optimal Design of Multi-Terminal Resistors Using Moop Multi-Objective Optimal Design Software*, Electrical Engineering Research Report EERR, no. 23, Napoli, Italy, pp. 1-5, ISSN 1126-5310, December 2007.
- [2]. Munteanu C., Serban T., Pop I. T., **Racasan Adina**, Stanescu Carmen, Topa V., *Recent Advances in the Analysis of the Electromagnetic Field Distribution inside HV Substations*, Revista Energetica, vol. 58, no. 5, pp. 211-214, ISSN 1453-2360, 2010.
- [3]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Hebedean Claudia, *Printed Circuit Boards and Multi-Chip Modules High Frequency Inductance Computation*, Electromagnetic Compatibility/Electromagnetic Field Research and Development in România, România, Editura AGIR, pp. 77-80, ISBN 978-973-720-521-6, 2014.
- [4]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, *HF Integrated LC Structure Behaviour Analysis Using the Generalized Transmission Lines Model*, Electromagnetic Compatibility/Electromagnetic Field Research and Development in România, România, Editura AGIR, pp. 65-70, ISBN 978-973-720-521-6, 2014.

Proceedings neindexat

- [1]. Munteanu C., **Răcășan Adina**, Răcășan Claudia, Țopa V., Muresan T., Costin Ana-Maria, *Electromagnetic Influences of the High Voltage Power Lines on the GSM Antennas Mounted on the High Voltage Towers*, Proceedings of the 7th International Conference of Applied and Theoretical Electricity, ICATE 2004, pp. 88 – 91, ISBN 973-8043-554-4, Baile Herculane, România, 14-15 Octombrie 2004.
- [2]. Răcășan Claudia, Țopa V., **Răcășan Adina**, Antonescu Oana, Plesa Mihaela, *Modeling of On-Chip Inductance*, Proceedings of the 3rd International Workshop on Advances in Numerical Computation

- Methods in Electromagnetism, ANCME 2005, pp. 110-119, ISBN 10973- 686-798-6, Brussels, Belgium, 26-27 Mai 2005.
- [3]. **Răcășan Adina**, Munteanu C., Răcășan Claudia, Țopa V., Antonescu Oana, Plesa Mihaela, *Interconnects Parameter Parasitic in Deep Sub-Micron Geometries*, Proceedings of the 3rd International Workshop on Advances in Numerical Computation Methods in Electromagnetism, ANCME 2005, pp. 170-179, ISBN 10973- 686-798-6, Brussels, Belgium, 26-27 Mai 2005.
 - [4]. Antonescu Oana, Munteanu C., Țopa V., **Răcășan Adina**, Răcășan Claudia, Plesa Mihaela, Retegan V., *Modelling Pulse Signals Propagation on High Voltage Lines using Non-Uniform Transmission Lines*, Proceedings of the 3rd International Workshop on Advances in Numerical Computation Methods in Electromagnetism, ANCME 2005, pp. 152-159, ISBN 10973686-798-6, Brussels, Belgium, 26-27 Mai 2005.
 - [5]. Răcășan Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Rafiroiu D., Antonescu Oana, *Comparative Study of Inductance Evaluation for Different Types of Deep Sub-Micron Circuit Structures*, Buletinul Institutului Politehnic Iași, Tomul LII (LVI), Fasc. 5B, 4th International Conference on Electrical and Power Engineering, EPE 2006, pp. 751-756, ISSN 1223-8139, Iași, România, 12-14 Octombrie 2006.
 - [6]. Răcășan Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Antonescu Oana, Plesa Mihaela, *On-Chip Inductance Computation using Ansoft - 2D Extractor*, Buletinul Institutului Politehnic Iași, Tomul LII (LVI), Fasc. 5B, 4th International Conference on Electrical and Power Engineering, EPE 2006, pp. 757-763, ISSN 1223-8139, Iași, România, 12-14 Octombrie 2006.
 - [7]. Răcășan Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Antonescu Oana, *HF Interconnects Inductance Calculation*, Acta Electrotehnica, Special Issue, Selected Papers from the 1st International Conference on Modern Power Systems, MPS 2006, vol. 47, no. 4, pp. 283-286, ISSN 1841-3323, 8-11 Noiembrie 2006.
 - [8]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, *Techniques to Reduce the Equivalent Parallel Capacitance for EMI Filters Integration*, Book of Abstracts of the 6th International Conference on Scientific Computing in Electrical Engineering, SCEE'06, pp.142-143, ISBN 978-973-718-520-4, Sinaia, România, 17-22 Septembrie 2006.
 - [9]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, Antonescu Oana, *Frequency domain modelling of integrated LC structure by coupled lossy transmission-line theory for EMI filters implementation*, Buletinul Institutului Politehnic Iași, Tomul LII (LVI), Fasc. 5B, 4th International Conference on Electrical and Power Engineering, EPE 2006, pp. 743-750, ISSN 1223-8139, Iași, România, 12-14 Octombrie 2006.
 - [10]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, Antonescu Oana, *Computing of the Equivalent Parallel Capacitance for EMI Filters Integration*, Acta Electrotehnica, Special Issue, Selected Papers from the 1st International Conference on Modern Power Systems, MPS 2006, vol. 47, no. 4, pp. 217-220, ISSN 1841-3323, 8-11 Noiembrie 2006.
 - [11]. Antonescu Oana, Munteanu C., **Răcășan Adina**, Răcășan Claudia, Pop I. T., *The Numerical Modelling of the Atmospheric Perturbations Influences on the High Voltage Lines*, Buletinul Institutului Politehnic Iași, Tomul LII (LVI), Fasc. 5B, 4th International Conference on Electrical and Power Engineering, EPE 2006, pp. 1313-1318, ISSN 1223-8139, Iași, România, 12-14 Octombrie 2006.
 - [12]. Antonescu Oana, Vermesan C., Munteanu C., **Răcășan Adina**, Răcășan Claudia, Dale L., *Numerical Simulation of the Atmospheric Disturbances Effect on the High Voltage Lines*, Acta Electrotehnica, Special Issue, Selected Papers from the 1st International Conference on Modern Power Systems, MPS 2006, vol. 47, no. 4, pp. 193-198, ISSN 1841-3323, 8-11 Noiembrie 2006.
 - [13]. Nicu Anca-Iulia, Duma Denisa, Antonescu Oana, Răcășan Claudia, **Răcășan Adina**, Rafiroiu D. V., *Some Physiological Aspects Of The Active Behaviour Of Neurons: Refractory Period And Strength-Duration Curve*, Proceedings EPNC 2006, XIX Symposium Electromagnetic Phenomena in

- Nonlinear Circuits, pp. 167-168, ISBN 83-921340-1-x, Maribor, Slovenia, June 20-30, 2006.
- [14]. Răcășan Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Antonescu Oana S., *Numerical and Analytical Calculation for Inductors of Rectangular Spiral Inductors*, SNET 2007, pp. 376-380, ISBN 978-973-718-899-1, Bucuresti, 12-14 Octombrie 2007.
 - [15]. Răcășan Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Antonescu Oana S., *High Frequencies On-Chip Interconnects Inductance Extraction*, Proceedings of the 7th International Power Systems Conference, PSC 2007, pp. 565-572, ISSN 1582-7194, Timisoara, Romania, 22-23 noiembrie 2007.
 - [16]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, Antonescu Oana, *Analysis of Integrated LC Structure by Coupled Lossy Transmission-Line Theory for EMI Filters Implementation*, SNET 2007, pp. 246-253, ISBN 978-973-718-899-1, Bucuresti, 12-14 Octombrie 2007.
 - [17]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, Plesa Mihaela, *A Solutions to Minimize the Equivalent Series Inductance and the Equivalent Parallel Capacitance for EMI Filters Integration*, Proceedings of the 7th International Power Systems Conference, PSC 2007, pp. 557-564, ISSN 1582-7194, Timisoara, 21-23 Noiembrie 2007.
 - [18]. Munteanu C., Diaconu C., Pop I. T., **Racasan Adina**, *Electric and Magnetic field distribution inside a power substation. Numerical modeling and experimental measurements.*, PSC 2007, Timisoara, pp. 421-426, ISSN 1582-7194, 21-23 noiembrie 2007.
 - [19]. Răcășan Claudia, Țopa V., **Răcășan Adina**, Munteanu C., Antonescu Oana S., *3D Inductivity Computation On-Chip*, Book of abstracts, EuroEM 2008 European Electromagnetics, pp. 382-383, , Lausanne, Elvetia, 21-25 July 2008.
 - [20]. Răcășan Claudia, Țopa V., **Răcășan Adina**, Munteanu C., *Three-dimensional inductance modelling and extraction*, Buletinul Institutului Politehnic din Iași, Tomul LIV (LVIII), Fasc.3, Electrotehnica, Energetica, Electronica, 5th International Conference on Electrical and Power Engineering, EPE 2008, pp. 47-54, ISSN 1223-8139, Iași, România, October 3-5, 2008.
 - [21]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, *Techniques to reduce the insertion losses in Emi Filters with Magnetic planar technology*, Buletinul Institutului Politehnic din Iași, Tomul LIV (LVIII), Fasc.3, Electrotehnică, Energetică, Electronică, 5th International Conference on Electrical and Power Engineering, EPE 2008, pp. 55-62, ISSN 1223-8139, Iași, România, October 3-5, 2008.
 - [22]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, Pleșa Mihaela, *Electromagnetic modelling of Integrated L-C Structures for EMI Filters Implementation*, Book of abstracts, EuroEM 2008 European Electromagnetics, pp. 396-397, Lausanne, Elvetia, 21-25 July 2008.
 - [23]. **Răcășan Adina**, Munteanu C., Țopa V., Răcășan Claudia, Antonescu Oana S., *Reduction of Effective Parallel Capacitance of the EMI Filters using Magnetic Planar Technology*, 13th Biennial IEEE Conference on Electromagnetic Field Computation, CEFC 2008, pp. 315-316, Atena, Grecia, 11-15 May 2008.
 - [24]. Munteanu C., Țopa V., **Răcășan Adina**, Răcășan Claudia, Bortels L., Deconinck J., *3D Numerical Computation of the Induced Potential Distribution on Buried Pipelines bz Neighbor HV Lines Working on Normal and Fault Conditions*, 13th Biennial IEEE Conference on Electromagnetic Field Computation, CEFC 2008, pp. 419-420, Atena, Grecia, 11-15 May 2008.
 - [25]. Pleșa Mihaela, Dărăbant Laura, Ciupa R., **Răcășan Adina**, Răcășan Claudia, *Magnetic Stimulation of Peripheral Nerves in a Cylindrical Volume Conductor*, 13th Biennial IEEE Conference on Electromagnetic Field Computation, CEFC 2008, pp. 546-548, Atena, Grecia, 11-15 May 2008.
 - [26]. Munteanu C., Merdan E., Marinescu A., Mureșan T., **Răcășan Adina**, Păcurar Claudia, Pop V., George M., Nicoleanu P., *Compliance with EU Directives Regarding the Human Exposure to Electromagnetic Fields. Experimental Study in Cluj-Napoca City*, Acta Electrotehnica, Special Issue, Proceedings of the 2nd International Conference on Modern Power Systems, MPS 2008, Editura Mediamira, pp. 321-324, ISSN 1841-3323, , Cluj-Napoca, România, 12-14 Noiembrie 2008.
 - [27]. Ilisiu Doina, Munteanu C., **Racasan Adina**, *A Challenge for Romanian Power System – the Wind Farms Integration*, Acta Electrotehnica, Special Issue, Proceedings of the 2nd International

- Conference on Modern Power Systems MPS 2008, Editura Mediamira, Cluj-Napoca, România, pp. 232-235, ISSN 1841-3323, 12-14 Noiembrie 2008.
- [28]. Păcurar Claudia, **Răcășan Adina**, Țopa V., Munteanu C., *Analyzing And Modeling On – Chip Interconnects Inductance*, Proceedings of the 7th International Conference of Electromechanical and Power Systems, SIELMEN 2009, pp. 312-315, ISBN 978-606-520-617-5, Iași, 8-9 Octombrie 2009.
- [29]. Păcurar Claudia, Țopa V., **Răcășan Adina**, Munteanu C., *On-chip interconnect inductance modeling*, International Symposium on Electromagnetic Fields in Mechatronics Electrical and Electronic Engineering, ISEF 2009, pp. 537-542, ISBN 978-2-84832-115-8, Arras, Franta, 10-12 September 2009.
- [30]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, *Analysis And Modeling Of Integrated L-C Structure For EMI Filters Integration Using Planar Electromagnetic Integration Technologies*, Proceedings of the 7th International Conference of Electromechanical and Power Systems, SIELMEN 2009, pp. 308-311, ISBN 978-606-520-617-5, Iași, Romania, 8-9 Octombrie 2009.
- [31]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, *Minimizing the parasitic parameters for EMI filters integration*, International Symposium on Electromagnetic Fields in Mechatronics Electrical and Electronic Engineering, ISEF 2009, pp. 543-549, ISBN 978-2-84832-115-8, Arras, Franta, 10-12 September 2009.
- [32]. Munteanu C., **Răcășan Adina**, Păcurar Claudia, Merdan E., Bogdan N., Nedelcu Speranta, *Determinarea intensitatii campului electromagnetic in doua statii de transformare 110 kV / MT – lucrare experimentală*, Conf. Nat. si Expozitia de Energetica, CNEE 2009, pp. 237-243, Sinaia, România, 21-23 Octombrie 2009.
- [33]. Visan Gh., Raducanu Florentina, Pop I. T., Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Risk Management for the Investment Works in the Romanian Power Grid Company-Transelectrica SA*, 7th Nat. Conf. on Industrial Energetics, CNEI 2009, pp. 427-432, Bacau, România, 5-7 Noiembrie 2009.
- [34]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, Lup S., *Reducing the Parasite Capacitance of EMI Filters using the Staggered Winding*, Buletinul Institutului Politehnic din Iași, Sectia: electrotehnica, energetica, electronica, EPE 2010, pp. 107-110, ISBN 978-606-13-0071-6, Iași, România, October 28-30, 2010.
- [35]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, *Electromagnetic modelling of the Planar Integrated LC Cells using the Transmission Lines Generalized Model*, SNET 2010, Bucuresti, România, 2010.
- [36]. Visan G., Raducanu F., Pop I.T., Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Risk Management for the Investment Works in the Roumanian Power Grid Company-Transelectrica S.A.*, The 3rd International Conference on Modern Power Systems, MPS 2010, Acta Electrotehnica, Special Issue, vol. 51, no. 5, pp. 388-392, ISSN 1841-3323, Cluj-Napoca, România, 18-21 May 2010.
- [37]. Pop I. T., Visan Gh., Țopa V., Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Risk Management for the Investment Works in the Romanian Power Grid Company*, Buletinul Institutului Politehnic din Iași, Proceedings of the 6th International Conference on Electrical and Power Engineering, EPE 2010, vol. 10, pp. 253-257, ISBN 978-606-13-0077-8, Iași, România, October 28-30 2010.
- [38]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, *Electromagnetic Modelling of the Planar Integrated LC Cells using the Transmission Lines Generalized Model*, Acta Electrotehnica, Special Issue, Proceedings of the 4rd International Conference on Modern Power Systems, MPS 2011, vol. 52, no. 5, pp. 395-400, ISSN: 1841-3323, Cluj-Napoca, România 17-20 Mai 2011.
- [39]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, *A Method of EPC Cancellation for Integrated EMI Filters*, Acta Electrotehnica, Special Issue, Proceedings of the 4rd International Conference on Modern Power Systems MPS 2011, Cluj-Napoca, România, vol. 52, no. 5, pp. 199-203, ISSN: 1841-3323, 17-20 Mai 2011.
- [40]. Păcurar Claudia, Țopa V., Munteanu C., **Răcășan Adina**, Hebedean Claudia, *Spiral Inductor*

- Analysis using CIBSOC Software Program, Acta Electrotehnica*, Special Issue, Proceedings of the 5th International Conference on Modern Power Systems, MPS 2013, ISSN: 1841-3323, vol. 54, no. 5, pp. 351-356, Cluj-Napoca, România, 28-31 Mai 2013.
- [41]. Păcurar Claudia, Țopa V., Munteanu C., **Răcășan Adina**, Hebedean Claudia, *Modeling and Optimization of Square, Hexagonal, Octagonal and Circular Spiral Inductors*, Proceedings of the 9th International Conference on Electromechanical and Power Systems, SIELMEN 2013, Editura PIM, pp. 394-400, ISBN 978-606-13-1560-4, 2013.
- [42]. **Răcășan Adina**, Munteanu C., Țopa V., Păcurar Claudia, Hebedean Claudia, *Filters for Conductive Electromagnetic Interference Suppression with Planar Electromagnetic Technology*, *Acta Electrotehnica*, Special Issue, Proceedings of the 5th International Conference on Modern Power Systems, MPS 2013, ISSN: 1841-3323, vol. 54, no. 5, pp. 394-401, Cluj-Napoca, România, 28-31 Mai 2013.
- [43]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Eliminating Parasitic Capacitance from EMI Filters with an Embedded Ground Layer*, Acta Electrotehnica, Special Issue, Proceedings of the 5th International Conference on Modern Power Systems, MPS 2013, ISSN 1841-3323, vol. 54, no. 5, pp. 213-218, Cluj-Napoca, România, 28-31 Mai 2013.
- [44]. Hebedean Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Influence of the Losses Increase Methods on the Parasitic Capacitances Values in Planar Structures*, Proceedings of the 9th International Conference on Electromechanical and Power Systems, SIELMEN 2013, Editura PIM, pp. 403-409, ISBN 978-606-13-1560-4, 2013.
- [45]. Păcurar Claudia, Țopa Vasile Munteanu, Călin, **Răcășan Adina**, Constantinescu Claudia, *The Optimal Design of the Gaped Coil for an Imposed Inductivity*, 18th International Symposium on Power Electronics - Ee 2015, ISSN 2344-5637, ISSN-L 1841-3323, pp. 1-5, Novi Sad, Serbia, October 28th - 30th, 2015.
- [46]. Constantinescu Claudia, Munteanu Călin, **Răcășan Adina**, Păcurar Claudia, *Numerical Modeling and Practical Realisation of an Induction Heating Device*, 18th International Symposium on Power Electronics - Ee 2015, ISSN 2344-5637, ISSN-L 1841-3323, pp. 1-5, , Novi Sad, Serbia, October 28th - 30th, 2015.
- [47]. Constantinescu Claudia, Munteanu C., **Răcășan Adina**, Păcurar Claudia, *Parameter Influence on the Operation of an Induction Heating Device*, Proceedings of the 10th International Conference on Electromechanical and Power Systems, SIELMEN 2015, Editura PIM, pp. 1-6, ISBN 978-606-567-284-0, Chisinau, Republica Moldova, 8-9 Octombrie 2015.

Research Projects

Grants / International Projects

- [1]. **Membru proiect** Development of new-advanced 3D analysis techniques and tools for optimisation of electromagnetic and electrochemical devices, Bilateral cu Flandra, VUB Brussels, BIL BWS 04/03, 2005-2007. Director proiect: **Prof. dr. ing. Vasile Țopa**.
- [2]. **Membru proiect:** New-advanced analysis techniques and software tools for optimization of MEMS devices, contract bilateral de cercetare, poziția 32 din Protocolul celei de a XIV-a sesiuni a Comisiei mixte româno-italiene, partener Universitatea "Federico II" Napoli, (Italia), 2006-2008. Director de proiect: **Prof. dr. ing. Vasile Țopa**.
- [3]. **Membru proiect:** Advanced Analysis Techniques & Tools for Optimization of Micro/ Nano Electro-Magnetic Systems MEMS-NEMS, proiect finanțat de către NATO, în cadrul Collaborative Linkage Grants–CLG, nr. de proiect: CBP.EAP.CLG. 982075. Partenere: Universitatea din Gent, (Belgia), Universitatea "Federico II" Napoli (Italia), Universitatea "Aristotle" din Thessaloniki (Grecia) și Universitatea UIB, (Spania), 2005-2007. Director de proiect: **Prof. dr. ing. Vasile Țopa**.

Grants / National Projects

- [1]. **Director proiect:** Digitalizarea procesului de evaluare a expunerii umane la câmpuri electrice și magnetice, Contract AOSR-TEAMS-II-Transformarea digitală în științe nr. 31/11.04.223, 11.04.2023-11.12.2024; Membrii proiect: Gliga Razvan, Bojita Adrian.
- [2]. **Director proiect:** Dezvoltarea unui pachet software CAD pentru modelarea, extragerea, respectiv minimizarea efectelor cuplajelor parazite RLC în circuite micro și nanometrice, Contract CNCISIS, tip TD, Tema 7, Cod CNCISIS 317, 2005-2008.
- [3]. **Membru proiect:** PN-II-RU-TE-2014-4-0199, Nr. 183/1.10.2015, Dezvoltarea unor noi metodologii pentru analiza și proiectarea optimă a bobinelor spirală multistrat utilizate în aplicații de radiofrecvență, 2015-2017, Director de proiect: **Conf. dr. ing. Claudia Păcurar.**
- [4]. **Membru proiect:** Analiza cuplata interferente electromagnetice/vibrații pentru dezvoltarea de actuatori electrice dedicate aplicațiilor auto cu emisii reduse – CEMIVA, contract PN II – PT – PCCA – 2013 – 4 – 1019, 2014-2016. Director proiect: **Prof. dr. ing. Călin Munteanu.**
- [5]. **Membru proiect:** Soluții de modelare, predicție și proiectare, cu maxim de performanță, pentru reducerea impactului curenților de dispersie asupra conductelor metalice subterane de transport gaz, Contract CNCISIS TE_253, 2010-2013. Director de proiect: **Conf. dr. ing. Dan Doru Micu.**
- [6]. **Membru proiect:** Pachet software integrat de analiză și predicție a nivelului poluării electromagnetice produse de stații și linii din sen asupra structurilor metalice vecine respectiv protecția catodică a acestora, Contract CNCISIS, cod PN-II-ID-PCE-2008-2-2539, 2008-2011. Director de proiect: **Prof. dr. ing. Călin Munteanu.**
- [7]. **Membru proiect:** Influența câmpurilor electromagnetice asupra stabilității în funcționare și a performanțelor instalațiilor de ardere, grant CNCISIS, tip A10, Cod CNCISIS 1279, 2006-2008. Director proiect: **Prof. dr. ing. Emil Simion.**
- [8]. **Membru proiect:** Impactul câmpurilor electromagnetice de natură antropică asupra ecosistemelor, Contract CEEEX, nr. X2C37/2006, 2006-2008. Director proiect: **Conf. Dr. Ing. Dan Doru Micu.**
- [9]. **Membru proiect:** Noi metodologii și instrumente pentru proiectarea optimă a formei și topologiei dispozitivelor 3D MEMS, Contract CNCISIS, Tema A 15, cod 1282, 2005-2008, Director proiect: **Prof. dr. ing. Vasile Țopa.**
- [10]. **Membru proiect:** Algoritmi de proiectare optimă structurală pentru supresia inductivităților parazite în circuite nanometrice, Contract CNCISIS, Tema A 18, cod 986, 2005-2008. Director proiect: **Prof. dr. ing. Călin Munteanu.**
- [11]. **Membru proiect:** Metodologii și instrumente pentru proiectarea nano-electronică automată-nEDA, Proiect CEEEX I 03/06.10.2005, nr. 9, 2005-2008. Director proiect: **Prof. dr. ing. Vasile Țopa.**
- [12]. **Membru proiect:** Dezvoltarea și optimizarea antenelor MIMO și evaluarea expunerii umane la radiațiile emise de acestea, ARUT 18/01.07.2024, 12 luni. Director proiect: **Ș.I. dr. ing. Claudia Constantinescu**

Bursă postdoctorală

„Eficientizarea răspunsului în frecvență al filtrelor EMI realizate în tehnologie electromagnetică planară”, Proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013 având titlul „Parteneriat interuniversitar pentru excelență în inginerie - PARTING”, Cod Contract: POSDRU/159/1.5/S/137516, perioada: 01.05.2014 – 31.10.2015 (18 luni).

Contracte terți (valoare peste 2000 EUR)

- [1]. **Director contract:** Realizarea măsurătorilor ale câmpului electromagnetic și măsurători de zgomot în cadrul proiectului „Retehnologizare stația 220/110 kV”, Contract nr. 35691/2022 – Contract cu Electrogrup S.A., 2022-2023. Membrii: Claudia Pacurar, Claudia Constantinescu, Sergiu Andreica, Razvan Gliga.

- [2]. **Membru contract:** *Măsurători câmp electric și magnetic în stația 220/110kV Turnu Severin Est* Contract nr. 36526/05.12.2019, Contract servicii cu SC Energobit SA Cluj, 2019. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [3]. **Membru contract:** *Măsurători de câmp electric și magnetic în deschiderea 34-35 LEA 400 kV Mintia Arad*, Contract nr. 14221/15.06.2018, Contract cu Electromantaj S.A. Cluj, 2018-2019. . *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [4]. **Membru contract:** *Servicii de cercetare/testare în domeniul compatibilității electromagnetice (EMC)* , Contract nr. 86 /2017 – Contract cu SC CEPROM S.A. Satu Mare, 2017-2018. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [5]. **Membru contract:** *Măsurători de câmp electric și magnetic în stația 220 / 110 kV Câmpia Turzii*, jud. Cluj, Contract nr. 17412/18.07.2017, Contract servicii cu SC Energobit SA Cluj, 2017. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [6]. **Membru proiect:** *Studiul valorilor de câmp electric in incinta stației 220 kV Ungheni*, Contract nr. 637 /2014 – Contract cu SC Automatic Systems SRL Craiova, 2014. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [7]. **Membru contract:** *Măsurători de câmp electric si magnetic in stațiile 220 kV si 110 kV Mintia*, Contract nr. 9500xxxx/25.03.2013, Contract cu SIEMENS Energy SRL, 2013. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [8]. **Membru proiect:** *Studiul expunerii la câmp magnetic ș,a*, Contract nr. 19167 /2012 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA – SDEE Cluj, 2012-2014. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [9]. **Membru contract:** *Studiul pilot al distribuției de câmp electromagnetic din incinta stațiilor electrice de transformare utilizând modelarea 3D a acestora*, Contract nr. 19166 /2012 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA – SDEE Cluj, 2012-2014. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [10]. **Membru contract:** *Studiul valorilor de câmp electric in incinta stației 220 kV Câmpia Turzii*, Contract nr. 1933/2010 – Contract cu SC Romproiect Electro SRL Cluj-Napoca, 2010. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [11]. **Membru contract:** *Studiul perturbațiilor electromagnetice produse de instalații electroenergetice asupra echipamentelor rezidențiale din imediata vecinătate*, Contract nr. 249 /2009 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA, 2009-2011. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [12]. **Membru contract:** *Determinarea intensității câmpului electromagnetic în doua stații de transformare 110kV/MT*, Contract nr. 148 /2007 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA, 2007-2008. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [13]. **Membru contract:** *Alimentarea consumatorilor pe JT direct din LEA 110 kV - întocmirea documentației necesare*, Contract nr. 156 /2007 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA, 2007-2008. *Director proiect:* Prof. dr. ing. Călin Munteanu.
- [14]. **Membru contract:** *Soluii de alimentare a consumatorilor pe joasa tensiune direct din LEA inalta tensiune*, Contract nr. 157 /2006 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA, 2006-2007. *Director proiect:* Prof. dr. ing. Călin Munteanu.

Cluj-Napoca,

5.05.2025

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