

Curriculum Vitae

Personal information

First name(s) / Surname(s) PĂCURAR Claudia
 Telephone(s) +40-742 047447
 Fax(es)
 E-mail Claudia.Pacurar@ethm.utcluj.ro
 Nationality Romanian
 Date of birth 09.08.1979

Work experience

Dates 01.10.2023 – present
 Name and address of employer Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Department of Electrotechnics and Measurements, Cluj-Napoca, 26-28 G. Barițiu Street
 Occupation or position held Professor
 Main activities and responsibilities Teaching and Research Activities

Education and training

Dates 25.02.2022
 Title of qualification awarded Habilitated/Habilitation Degree
 Principal subjects/occupational skills From planar spiral inductors to wireless power transfer systems, antennas and filters
 Name and type of organization providing education and training Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Cluj-Napoca, Romania

Personal skills and competences

Mother tongue(s) Romanian
 Other language(s)

Self-assessment

European level (*)

English

French

Italian

German

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
B1	B1	B1	B1	B1
B2	B2	B2	B2	B2
B1	B1	B1	B1	B1

Didactic activity

Teaching Courses Numerical Modeling of Electric Devices/ Numerical Modelling of Electromagnetic Field
 Optimal Design of Electric Devices
 Electrotechnics/ Bases of Electrotechnics/Theory of electromagnetic field/ Theory of Electric Circuits

Training Mobility

- 16-18.04.2024 University Leadership Program – Certificate of participation, Harvard Graduate School of Education and Romanian - American Foundation, Cluj, Romania
- 2-5.11.2023, Succes in Entrepreneurship Ecosystem Development Program– Certificate of Participation, Babson College, and Romanian - American Foundation, Cluj, Romania
- 9-11.03.2020 Course ANSYS-HFSS, Icepak, Siwave- Certificate of Attendance, Timișoara, Romania
- 20-21.11.2018 Course CST Studio Suite EMC/EMI Training – Certificate of Participation, Romanian Partner CAELYNX Europe, Craiova, Romania
- 10-15.03.2007 Course ANSYS – Certificate of Attendance, No. 389/15.03.2007, Technical University of Cluj-Napoca, Sheffield University U.K. and ANSYS, Inc. Romanian Channel Partner, INAS S.A., Craiova, Romania
- 26.01-26.02.2007 Course AutoCAD – Certificate of competence AutoCAD 2007, No. 2330467, Autodesk Authorized Training Center, UTCM-CJ, Cluj, Romania

- Institutional Projects (max 5 the most representative)
1. *Leader of work package WP5 in the Alliance/Consortium European University of Technology, EUT+, Finance Contract no 101004088, EAC-A02-2019 / EAC-A02-2019-1, 2022-2023*
 2. *Coordinator of competences forming programs – Cluj on the project Transforming the university ecosystem through digital transition to a sustainable european future - eUT4ALL, project code: e-PNRR 1277457265, 2022-2025*
 3. *Leader of work package WP1, on the project Transylvania Digital Innovation Hub, TDIH DIGITAL-2021-EDIH-01, co-financed in the Program Digital Europa, Grant Agreement 101083508, 2022-2025*

Research

- National Grants (max 5 the most representative)
1. Project Leader/Director of the research project PN-II-RU-TE-2014-4-0199, Nr. 183/1.10.2015, Optimal Design of Multilayer Spiral Inductors for development of High Frequency Wireless Power Transfer Systems used in Electrical and Biomedical Applications, 2015-2017
 2. Project Leader/Director of research grant CNCSIS, type TD, Theme no 6, CNCSIS Code 324, Development of New Methodologies to Evaluate Self and Mutual Inductances from Micro and Nanometer Circuits, 2005-2008
 3. Postdoctoral program, Modeling, Simulation and Optimal Design of spiral inductors from radio frequency integrated circuits, of the project "Partnership for Excellence Inter Engineering - PARTING" Contract Code: HRD/159/1.5/S/137516, Beneficiary: Technical University Cluj-Napoca, period: 01.05.2014 – 10.31.2015
 4. Member of the research team on the Contract with SC Energobit SA Cluj, Electric and Magnetic Field Measurements in the 220 / 110 kV Power Station from Câmpia Turzii, Cluj, 2017
 5. Member of the research team on the Contract with SC CEPROM SA Satu-Mare nr. 86/2017, Research works – Electromagnetic Compatibility Tests (EMC), 2017-2018

- International Grants (max 5 the most representative)
1. *Member of the research team on the project H2020-ECSEL-2017-1-IA-TWO STAGE, Nr. 122386, POC-A1-A1.1.3-H/ 2019," Integrated Development 4.0, iDev4.0", 2018-2021*
 2. *Member of the research team on the bilateral research project with Italy, New-advanced Analysis Techniques and Software Tools for Optimization of MEMS Devices, position 32 on Protocol of XIV Session of Romanian - Italian Mist Committed, Partner Federico II University Naples, 2006-2008*
 3. *Member of the research team on the bilateral research project Romanian – Flemish. Development of New-advanced 3D Analysis Techniques and Tools for Optimization of Electromagnetic and Electrochemical Devices, DESIGN, BWS04/03, Partner VUB University Brussels, 2005-2007*
 4. *Member of the research team on the NATO project, in the Collaborative Linkage Grants - CLG, project no. CBP.EAP.CLG. 982075, Advanced Analysis Techniques & Tools for Optimization of Micro/Nano Electro-Magnetic Systems MEMS/NEMS, Partners: Gent University, Federico II University Naples, Aristotle University, Thessalonica and UIB University, 2005-2007.*

Scientific publications 7 books, 150 articles (54 ISI, 42 ISI Proceedings, 44 BDI, 52 unindexed)/Citations 150 (66 ISI, 84 DBI)

Additional information

Membership of Professional Societies AGIR, ACER; IEEE Member; IEEE Young Professional Member, IEEE Antennas and Propagation Society Membership, IEEE Electron Devices Society Membership, IEEE Industrial Electronics Society Membership, IEEE Women in Engineering Member, IEEE Circuits and Systems Society Member, Literati Network; NUMELEC Research Center

Scientific International Committee Member Member of Journal Reviewer Board, Sensors Journal
Member of Journal Topics Board, Electronics Journal
Rosalind Member of LONDON Journals Press, Membership ID #NH78358

Other relevant activities Reviewer for ISI Journals: Sensors, Energies, Applied Sciences, Symmetry, Electronic Materials, Mathematics, Electronics, Algorithms, Machines, Processes, and COMPEL; and International Conferences: MPS, EUROCON, EPE, OPTIM-ACEMP, ICEMS-BIOMED

Significant books published in the last 10 years (max 10)

1. Păcurar Claudia, Calculul inductivității bobinelor spirală utilizând programul software CIBSOC, Editura U.T.Press, ISBN 978-606-737-556-5, 145 pages, 2022
2. 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 pages, 2021
3. 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 pages, 2020
4. Răcășan Adina N., Munteanu C., Țopa V., Păcurar Claudia, Constantinescu Claudia, Modelarea numerică a câmpului electromagnetic. Indrumator de laborator – Volumul 1, Editura UTPRESS, Cluj-Napoca, România, ISBN 978-606-737-195-6, 228 pages, 2016
5. Păcurar Claudia, Țopa Vasile, Analiza, modelarea și proiectarea optimă a bobinelor spirală din circuite integrate micrometrice, U.T. Press Publisher, Cluj-Napoca, Romania, ISBN 978-606-737-007-2, 246 pages, 2014

**Significant papers published
in the last 10 years (max 10)**

1. Constantinescu, Claudia, Sergiu Andreica, Rapolti Laszlo, Adina Giurgiuman, Marian Gliga, Calin Munteanu, and Claudia Pacurar, "Numerical Modelling, Analysis, and Optimization of RFID Tags Functioning at Low Frequencies" *Applied Sciences* 14, no. 20: 9544, DOI 10.3390/app14209544, 2024
2. Giurgiuman Adina, Gliga M., Bojita A., Andreica S., Munteanu C., Topa V., Constantinescu Claudia, Păcurar Claudia, "Software Program for the Evaluation of Human Exposure to Electric and Magnetic Fields. *Technologies Journal*, vol. 11, no. 6, 159, IF: 3.6, November 2023
3. Constantinescu Claudia, Păcurar 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 Journal*, vol. 13, no. 11, 6678, IF: 2.7, May 2023
4. Păcurar C, Topa V, Giurgiuman A, 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
5. Păcurar 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, IF: 2.397, 2021
6. 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, *International Conference on Modern Power Systems*, Cluj-Napoca, Romania, WOS:000941563300104, pp. 1-6, 2021
7. Păcurar 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, WOS:000475904500134, 2019
8. Păcurar Claudia, Topa V., Giurgiuman Adina, Munteanu C., Constantinescu Claudia, Gliga M., Andreica S., "The Construction of a Wireless Power Supply System using Planar Spiral, 8th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, WOS: 000612401900123, 2019
9. Păcurar Claudia, Topa 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 4th International Conference on Quality and Innovation in Engineering and Management, QIEM, Cluj Napoca, România, pp. 111-116, WOS:000436122900019, 2016
10. Răcășan Adina, Munteanu C., Topa 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, IF:1.096, 2016

Cluj-Napoca,
Date: September 2024

Name and signature: PĂCURAR CLAUDIA