

# LISTA DE LUCRĂRI (CĂRȚI, ARTICOLE)

## CONTRACTE

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### Teza de doctorat

**Titlul: Contribuții la analiza, modelarea și proiectarea optimală a bobinelor spirală din circuitele integrate micrometrice**

Universitatea Tehnică din Cluj-Napoca

Facultatea de Inginerie Electrică

Departamentul de Electrotehnică și Măsurări

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## Proiecte de cercetare-dezvoltare pe baza de contract/grant

### Contracte internaționale:

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- [2]. **Membru în echipa de cercetare** din cadrul proiectului de cercetare bilaterală Româno-Flamand, Development of New-advanced 3D Analysis Techniques and Tools for Optimisation of Electromagnetic and Electrochemical Devices, DESIGN, BWS04/03, Parteneră Universitatea VUB Brussels (Belgia), Buget total 59250 eur, 2005-2007, Director proiect: Prof.dr.ing. Vasile Țopa;
- [3]. **Membru în echipa de cercetare** a proiectului finanțat de către NATO, în cadrul Collaborative Linkage Grants - CLG, proiect nr. CBP.EAP.CLG. 982075, Advanced Analysis Techniques & Tools for Optimization of Micro/Nano Electro-Magnetic Systems MEMS/NEMS, Parteneri: Universitatea din Gent (Belgia), Universitatea Federico II Napoli (Italia), Universitatea Aristotle din Thessaloniki (Grecia) și Universitatea UIB (Spania), Buget total proiect 10000 eur, 2005-2007, Director proiect: Prof.dr.ing. Vasile Țopa.
- [4]. **Membru în echipa de cercetare** a proiectului H2020-ECSEL-2017-1-IA-TWO STAGE, Nr. 122386, POC-A1-A1.1.3-H/ 2019 "Integrated Development 4.0, iDev4.0", 2018-2021, Director proiect: Conf.dr.ing. Marius Purcar.

### Contracte naționale:

- [1]. **Director proiect de cercetare**, PN-II-RU-TE-2014-4-0199, Nr. 183/1.10.2015, Dezvoltarea unor noi metodologii pentru analiza și proiectarea optimală a bobinelor spirală multistrat utilizate în aplicații de radiofrecvență, 549 700 lei, 2015-2017;
- [2]. **Director grant de cercetare** CNCSIS, tip TD, Tema nr. 6, Cod CNCSIS 324, Dezvoltarea unor noi metodologii pentru evaluarea inductivităților proprii și mutuale din circuite micro și nanometrice, 52000 lei, 2005-2008;
- [3]. **Membru în echipa de cercetare** a proiectului CEEX I 03/06.10.2005, nr. 9, Metodologii și instrumente pentru proiectarea nano-electronică automată-nEDA, 184670 lei, 2005-2008, Responsabil proiect: Prof.dr.ing. Vasile Țopa;
- [4]. **Membru în echipa de cercetare** din cadrul grantului de cercetare CNCSIS, tip A, Tema 15, Cod CNCSIS 1282, Noi metodologii și instrumente pentru proiectarea optimală a formei și topologiei dispozitivelor 3D MEMS, 180000 lei, 2006-2009, Director grant: Prof.dr.ing. Vasile Țopa;
- [5]. **Membru în echipa de cercetare** a grantului CNCSIS, tip A18, Cod CNCSIS 986, Algoritmi de proiectare optimală structurală pentru supresia inductivităților parazite în circuite electronice nanometrice, 240000 lei, 2005-2008, Director grant: Prof.dr.ing. Călin Munteanu;
- [6]. **Membru în echipa de cercetare** a grantului CNCSIS, tip A10, Cod CNCSIS 1279, Influența câmpurilor electromagnetice asupra stabilității în funcționare și a performanțelor instalațiilor de ardere, 894117 lei, 2006-2008, Director grant: Prof.dr.ing. Emil Simion;
- [7]. **Membru în echipa de cercetare** a proiectului CEEX X2C36/2006, Impactul câmpurilor electromagnetice de natură antropică asupra ecosistemelor, 230000 lei, 2006-2008, Responsabil proiect: Conf.dr.ing. Dan Doru Micu;



- [8]. **Membru în echipa de cercetare** a contractului de cercetare CNCSIS, IDEI, nr. ID\_2538, Dezvoltarea unui algoritm matematic de modelare a suprafețelor deformabile a electrozilor în cursul proceselor electrochimice, un nou instrument de proiectare virtuală, 2008-2011, Director proiect: Prof.dr.ing. Vasile Țopa;
- [9]. **Membru în echipa de cercetare** a proiectului de cercetare Grant CNCSIS Parteneriate, CEMIVA, cod PN II – PT – PCCA – 2013 – 4 – 1019, *Analiza cuplata interferente electromagnetice/vibrații pentru dezvoltarea de actuatori electrice dedicate aplicațiilor auto cu emisii reduse*, 2014-2017. Director proiect: Prof. dr. ing. Călin Munteanu, Membrii: Prof. Claudia Martis, Prof. Vasile Topa, Prof. Lorand Szabo, Conf. Marius Purcar, Conf. Daniel Fodorean, Conf. Adina Racasan, Conf. Claudia Pacurar, S.I. Claudiu Oprea, S.I. Anca Nicu

## Bursa postdoctorală

“Modelarea, simularea funcțională și proiectarea optimală a bobinelor spirală din circuite integrate de radiofrecvență” din cadrul proiectului „Parteneriat interuniversitar pentru excelență în inginerie - PARTING”, Cod Contract: POSDRU/159/1.5/S/137516, Beneficiar: Universitatea Tehnică din Cluj Napoca, perioada: 01.05.2014 – 31.10.2015 (18 luni)

## Contracte terți (valoare peste 2000 EUR)

- [1]. **Membru în echipa de cercetare** a contractului cu terți, Contract nr. 157 /2006 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA, *Soluii de alimentare a consumatorilor pe joasa tensiune direct din LEA inalta tensiune*, 2006-2007. Director proiect: Prof. dr. ing. Călin Munteanu.
- [2]. **Membru în echipa de cercetare** a contractului cu terți, Contract nr. 148 /2007 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA, *Determinarea intensității câmpului electromagnetic în doua stații de transformare 110kV/MT*, 2007-2008. Director proiect: Prof. dr. ing. Călin Munteanu.
- [3]. **Membru în echipa de cercetare** a contractului cu terți, Contract nr. 156 /2007 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA, *Alimentarea consumatorilor pe JT direct din LEA 110 kV - întocmirea documentației necesare*, 2007-2008. Director proiect: Prof. dr. ing. Călin Munteanu.
- [4]. **Membru în echipa de cercetare** a contractului cu terți, Contract nr. 249 /2009 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA, *Studiul perturbațiilor electromagnetice produse de instalații electroenergetice asupra echipamentelor rezidențiale din imediata vecinătate*, 2009-2011. Director proiect: Prof. dr. ing. Călin Munteanu.
- [5]. **Membru în echipa de cercetare** a contractului cu terți, Contract nr. 1933/2010 – Contract cu SC Romproiect Electro SRL Cluj-Napoca, 2010, *Studiul valorilor de câmp electric in incinta stației 220 kV Câmpia Turzii*. Director proiect: Prof. dr. ing. Călin Munteanu.
- [6]. **Membru în echipa de cercetare** a contractului cu terți, Contract nr. 19166 /2012 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA – SDEE Cluj, *Studiul pilot al distribuției de câmp electromagnetic din incinta stațiilor electrice de transformare utilizând modelarea 3D a acestora*, 2012-2014. Director proiect: Prof. dr. ing. Călin Munteanu, Membrii: Prof. Vasile Topa, Conf. Adina Racasan, Conf. Claudia Pacurar, Conf. Marius Purcar, As. Claudia Hebedean
- [7]. **Membru în echipa de cercetare** a contractului cu terți, Contract nr. 19167 /2012 – Contract cu FDEE Electrica Distribuție Transilvania Nord SA – SDEE Cluj, *Studiul expunerii la câmp magnetic in zone rezidențiale din Mun. Cluj-Napoca*, 2012-2014. Director proiect: Prof. dr. ing. Călin Munteanu, Membrii: Prof. Vasile Topa, Conf. Adina Racasan, Conf. Claudia Pacurar, Conf. Marius Purcar, As. Claudia Hebedean

- [8]. **Membru în echipa de cercetare** a contractului cu terți, Contract cu SIEMENS Energy SRL *Măsurători de câmp electric și magnetic în stațiile 220 kV și 110 kV Mintia*, Deva, 2013. *Director proiect:* Prof. dr. ing. Călin Munteanu, Membrii: Conf. Adina Racasan, Conf. Claudia Pacurar, stud. Claudiu Hangea, stud. Tudor Gutiu
- [9]. **Membru în echipa de cercetare** a contractului cu terți, Contract nr. 637 /2014 – Contract cu SC Automatic Systems SRL Craiova, *Studiul valorilor de câmp electric în incinta stației 220 kV Ungheni*, 2014. *Director proiect:* Prof. dr. ing. Călin Munteanu, Membrii: Conf. Adina Racasan, Conf. Claudia Păcurar
- [10]. **Membru în echipa de cercetare** a contractului cu terți, Contract servicii cu SC Energobit SA Cluj, *Măsurători de câmp electric și magnetic în stația 220 / 110 kV Câmpia Turzii*, jud. Cluj, Director: Prof. Calin Munteanu, Membrii: Conf. Adina Racasan, Conf. Claudia Pacurar, 2017
- [11]. **Membru în echipa de cercetare** a contractului cu terți, Acord de cooperare cu SC CEPROM SA Satu-Mare nr. 86/2017, Servicii de cercetare – testare în domeniul compatibilității electromagnetice (EMC), 2017-2018, Director: Prof. Calin Munteanu Membrii: Conf. Adina Racasan, Conf. Claudia Pacurar, As. Claudia Constantinescu, stud. Sergiu Andreica, stud. Razvan Gliga

Cluj-Napoca,

18.01.2022

Conf. dr. ing. ec. **Claudia RĂCĂȘAN PĂCURAR**