

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

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Facultatea de Inginerie Electrică

Departamentul de Electrotehnică și Măsurări

Domeniul Inginerie Electrică

Data susținerii: 12.07.2012.

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Proiecte de cercetare-dezvoltare pe baza de contract/grant

Contracte internaționale:

- [1]. **Membru în echipa de cercetare** din cadrul proiectului de cercetare bilaterală cu Italia, New-advanced Analysis Techniques and Software Tools for Optimization of MEMS Devices, poziția 32 din Protocolul celei de-a XIV-a Sesiuni a Comisiei mixte româno-italiene, Parteneră Universitatea Federico II Napoli (Italia), 6000 eur, 2006-2008, Director proiect: Prof.dr.ing. Vasile Țopa;
- [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 CEE X 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;
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- [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)

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