LISTA DE LUCRĂRI -
Profesor universitar dr. ing. IONIŢĂ Valentin

A – Teza de doctorat

Difuzia campului electromagnetic in medii cu histerezis (conducator: Prof.dr.doc.ing. C.I. Mocanu), Univ. Politehnica Bucuresti, 1994

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E – Brevete

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F – Contracte

F1. Proiecte internationale - coautor

1. D.Ioan, V.Ionita si altii - *Nature-inspired micro-fluidic manipulation using artificial cilia*, contract FP6, coord. Philips Electronics (Eindhoven–Olanda), no. NMP4-CT-2006-033274, 2006-2010
2. H.Gavrila, V.Ionita si altii – *Nanostructured and amorphous magnetic alloys for high-frequency applications*, Executive Prog. of Scientific and Technological Cooperation between Italy and Romania, contract nr.4, 2005-2007
3. H.Gavrila, V.Ionita si altii – *MAGNAT- Cercetari fundamentale in domeniul modelarii fizice si matematice, al calculului si realizarii unor dispozitive magnetice*, grant major de cercetare CNCSIS 3/2C, contract nr. 39731/1998 (MEN) sau 9265/1998 (UPB), 1999-2001;
4. H.Gavrila, V.Ionita si altii – *PU-MAGNAT- Program de pregatire postuniversitara - studii aprofundate si doctorat, in domeniul magnetismului aplicat si tehnic*, grant CNCSIS 76/4D, contract 40625, 2000-2001.

F2. Proiecte nationale - director

1. *Modelări şi simulări privind comportarea în regim dinamic a materialelor magnetice cu proprietăţi controlate*, grant CNCSIS tip A-Consortiu, contract 6GR/2006, 2006-2008 (coordonare colectiv UPB - partener);
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4. *Studiul prin microscopie magneto-optica a proceselor de micro- si nano-magnetizare din materialele magnetice*, grant CNCSIS, A-362, 2005-2007;
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7. *Instalatie de conversie energetica neconventionala de mica putere, bazata pe integrarea unor materiale avansate si solutii tehnologice noi,* contract PNCDI – RELANSIN nr. 1804/2003, 2003-2005 (coordonare colectiv UPB - partener);
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9. *Metode avansate de caracterizare a materialelor magnetice cu histerezis*, grant CNCSIS (Consiliul National al Cercetarii Stiintifice din Invatamantul Superior), contracte 37124/2000 (AT-201) si 34967/2001 (AT-10), 2000-2001;
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F3. Proiecte nationale - coautor

1. H.Gavrila, V.Ionita si altii - *Maşini electrice cu eficienţă sporită, prin utilizarea unor soluţii tehnice avansate, bazate pe predeterminarea proprietăţilor magnetice ale tolelor*, contract CNDI-UEFISCDI PCCA Tip 2 nr. 32/2012, 2012-2016
2. H.Gavrila, V.Ionita si altii - *Sistem micro-electro-mecanic cu aplicaţii în reconstrucţia microchirurgicală a nervilor periferici (RECONECT*), contract PC 72-160/1.10.2008, 2008-2011, coordonator: INCD pentru Microtehnologie.
3. H.Gavrila, V.Ionita si altii - *Biochip microfluidic pentru caracterizarea reologică a fluidelor biologice ne-newtoniene cu aplicaţii în diagnoză şi tratament medical (MELANOCHIP*), contract PC 12-094/1.10.2008, 2008-2011, coordonator: INCD pentru Microtehnologie
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5. H.Gavrila, V.Ionita si altii - *Aprofundarea cunoştinţelor de spintronică prin dezvoltarea fizicii compuşilor Heusler ajustabili*, contract CEEX 69/2005, 2005–2008
6. H.Gavrila, V.Ionita si altii - *Cercetări fundamentale şi aplicative în domeniul materialelor multi-funcţionale nanostructurate*, grant CNCSIS tip A-Consorţiu, tema 1, cod CNCSIS 97, 2005-2007
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11. H.Gavrila, V.Ionita, F.Hantila si altii – *Solutii noi de optimizare a ecranelor de protectie pentru radiatii electromagnetice neionizante in gama extinsa de frecventa 500 kHz-10 GHz*, contract PNCDI – proiect CERES nr. 64/2002, 2002-2004;

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F4. Proiecte POSDRU

1. **Conducător de activitate doctorală** in „*Promovarea ştiinţei şi calităţii în cercetare prin burse doctorale (PROSCIENCE)*", proiect POSDRU nr. 187/1.5/S/155420, 2015, coordonator: Universitatea Politehnica din Bucuresti
2. **Conducător de activitate postdoctorală** in „*Excelenţă în cercetare prin burse doctorale şi postdoctorale (ExcelDOC)*", proiect POSDRU nr. 159/1.5/S/132397, 2014–2015, coordonator: Universitatea Politehnica din Bucuresti
3. **Expert termen scurt** in **„***Dezvoltarea unui sistem operaţional al calificărilor din învăţământul superior din România"*, proiect POSDRU nr. 2/1.2/S/2, 2009 – 2010, coordonator: Agenţia Naţională pentru Calificările din Învăţământul Superior şi Parteneriat cu Mediul Economic şi Social (ACPART).
4. **Manager partener (fac. Inginerie Electrica- UPB), expert termen lung** in **„***Program strategic pentru promovarea inovarii in servicii prin educatie deschisa, continua - INSEED"*, proiect POSDRU nr. 86/1.2/S/57748, 2010 – 2013, coordonator: Universitatea Politehnica din Bucuresti (prof. T. Borangiu).
5. **Expert termen lung – conducator de doctorat** in **„***Dezvoltarea de cariere stiintifice competitive prin programe de burse doctorale (COMPETE)"*, proiect POSDRU nr. 88/1.5/S/60203, 2009 – 2012, coordonator: Universitatea Politehnica din Bucuresti (prof. E. Andronescu)
6. **Expert termen lung – conducator de doctorat** in **„***Valorificarea capitalului uman din cercetare prin burse doctorale (ValueDoc)"*, proiect POSDRU nr. 107/1.5/S/76909, 2010 – 2013, coordonator: Universitatea Politehnica din Bucuresti (prof. E. Andronescu)