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E. PROIECTE DE CERCETARE-DEZVOLTARE-INOVARARE PE BAZĂ DE CONTRACT/GRANT:

26 proiecte de cercetare naționale/internaționale din care:

- 4 proiecte de cercetare internaționale ca membru în echipa de lucru;
- 22 proiecte de cercetare naționale (4 în calitate de responsabil/director de proiect);

5 cercetari prenormative M.D.R.T.

Experiența acumulată în programe/proiecte naționale/internaționale:

Programul/Proiectul	Funcția	Perioada
PROIECTE NAȚIONALE		
ECODIGICONS: Concept integrativ de analiză digitală a datelor din monitorizarea seismică la scară largă a teritoriului național și a fondului construit, destinat identificării rapide a potențialului distructiv al evenimentelor seismice produse în România și în regiunile adiacente, PN23 35 01 01	Membru în grupul de lucru	2023-2026
ECOSMARTCONS: Cercetari privind realizarea unui sistem integrat pentru asigurarea securității spațiului construit, cu generare semi-automata a hartilor PGA provenite din acțiuni seismice sau alte surse vibratorii și evaluare rapidă a vulnerabilității clădirilor instrumentate, PN19 33 01 01	Director de proiect	2019-2022
SIPOCA 606: Consolidarea capacității de planificare strategică a Ministerului Dezvoltării Regionale și Administrației Publice în renovarea fondului construit național din perspectiva eficienței energetice și a riscului seismic	Membru în grupul de lucru	2019-2022

ECOSMARTCONS: Vulnerabilitatea sistemelor de fațadă ale clădirilor la acțiunea incendiilor, PN 19 33 01 02	Membru in grupul de lucru	2019-2022
ECOSMARTCONS: Cercetari privind realizarea confortului acustic si termic in interiorul cladirilor utilizand un instrument inovativ de alegere a structurilor optime de elemente de constructii, din materiale clasice versus moderne, PN 19 33 03 01	Membru in grupul de lucru	2019-2022
ECOSMARTCONS: Solutii sustenabile pentru asigurarea sănătății și securității populației în conceptul inovării deschise și a prezervării mediului înconjurător, PN 19 33 04 02	Membru in grupul de lucru	2019-2022
CONCRET Contract PN 18-35 01 01 PROIECTUL: <i>Cercetări pentru elaborarea unui sistem de detecție instrumentală a avarierilor structurale cauzate de surse seismice sau neseismice</i>	Director de proiect	2018
CRESC Contract PN 16-10 01 01 PROIECTUL: <i>Concept integrat de instrumentare si monitorizare seismica, pentru caracterizarea securității seismice pe baza determinării evoluției caracteristicilor dinamice in-situ ale clădirilor cu funcțiuni esențiale si/sau clădiri care prezintă un pericol major pentru siguranța publică în cazul prăbușirii sau avarierii grave</i>	Director de proiect	2016-2017
CONSUS Contract PN 09 – 14 01 07 PROIECTUL: <i>Studii si cercetări experimentale privind nivelul vibrațiilor generate de surse nonseismice având impact asupra construcțiilor (cu funcțiuni esențiale, de patrimoniu național, etc.) sub aspectul consecințelor asociate cu prăbușirea sau avarierea grava. Evaluarea siguranței structurale, funcționalității si confortului</i>	Director de proiect	2014 – 2015
CONSUS Contract PN 09 – 14 01 01 PROIECTUL: <i>Investigarea integrată a performanțelor construcțiilor după cutremure puternice</i>	Responsabil proiect/faze	2012 – 2014
CONSUS Contract PN 09 – 14 01 03 PROIECTUL: <i>Studii parametrice privind cuantificarea potențialului de avarie structurală al mișcărilor seismice vrâncene</i>	Membru in grupul de lucru	2009 – 2014
UEFISCDI – PCCA Capacități / Proiect SEISMOCODE	Membru in grupul de lucru	2014-2016
Programul PN II proiectul: Rețeaua seismică educațională din România, ROEDUSEIS	Membru in grupul de lucru	2012-2016
Programul PN II proiectul: Bridging the gap between Seismology and Earthquake Engineering: from the seismicity of Romania towards a refined implementation of Seismic action EN 1998-1 in earthquake resistant design of buildings, BIGSEES	Membru in grupul de lucru	2012-2016
Programul PN II proiectul: Blocuri urbane in zone centrale protejate, expuse la hazarduri multiple – evaluare, cartare si strategie de reducere a riscurilor: studiu de caz București: zona destructurată de demolările regimului comunist	Membru in grupul de lucru	2012-2016
Programul PN II proiectul: “Reducerea riscului seismic prin evitarea rezonanței teren-structura si prin izolarea bazei structurii. Aplicabilitate in zona metropolitana Bucuresti”	Membru in grupul de lucru	2007 – 2010
Programul PN II proiectul: “Solutii tehnice integrate structurale si arhitecturale, tehnologii si materiale avansate pentru reducerea riscului, cresterea sigurantei constructiilor si securitatii vietii la actiuni extreme (cutremur, impact – terorism, explozii, tornade etc.)”	Responsabil faze	2007-2010
Programul PN II proiectul: „Detectarea satelitară a gradientilor termici generați de schimbările climatice globale pe teritoriul României prin insule de căldură, inclusiv soluții de atenuare a acestora”	Membru in grupul de lucru	2007-2010
Programul CNCSIS proiectul: „Prevenirea avariilor din viituri prin consolidarea albiilor cu structuri din pamant armat biologic si cu geogriile”	Membru in grupul de lucru	2006-2008
Programul MENER proiectul: Reducerea riscului dezasrelor naturale din avalanșe și alunecări de teren asociate, prin supraveghere satelitară și lucrări specifice de apărare.	Membru in grupul de lucru	2005-2007
Programul INFOSOC proiectul:” Prevenirea inundațiilor provocate de topirea bruscă a zăpezilor prin supraveghere satelitară și strategii de apărare”	Membru in grupul de lucru	2005-2007
Programul AMTRANS proiectul:” Reabilitarea construcțiilor vechi și moderne din zidărie”	Membru in grupul de lucru	2004- 2005
PROIECTE INTERNATIONALE		
E-PRESS, "Monitoring and Evaluation of Natural Hazard Preparedness at School Environment	Membru in grupul de lucru	2014 – 2016

ANCS – Proiect de cooperare internațională România-China / Proiect RISKSOLVE	Membru in grupul de lucru	2013-2014
FP6 STREP Project SSP-5-A-044251 “Cultural Heritage Protection Against Flood – CHEF”	Membru in grupul de lucru	2007 – 2009
ECOLEADER, Enhancing seismic resistance and durability of the natural stone masonry.	Membru in grupul de lucru	2003 – 2005
CONTRACTE DE CERCETARE		
Contract USAMV 7753/2017: Mentenanta statiei seismice digitale, instalata in cladirea Facultatii de Biotehnologii, prelevarea si prelucrarea datelor obtinute.	Director de proiect	2019-2021
Contract APATEL PROPERTIES SRL 5349/2009: Instrumentarea cu accelerometre INCERC, citire si prelucrare date conform normativ P100-1/2006, pentru cladirea de birouri Riverside Tower, situata in splaiul Independentei 291-293, Urmarirea comportarii in timp a cladirii Riverside Tower. Prelucrare si achizitionare date in caz de seism	Director de proiect	2009-2021

F. ALTELE

F1. STUDII/ARTICOLE PUBLICATE ÎN VOLUMELE UNOR MANIFESTĂRI ȘTIINȚIFICE INTERNAȚIONALE RECUNOSCUTE.

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F2. ARTICOLE IN PUBLICATII NATIONALE

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